JAYPEE HOSPITAL
LIFE FIRST

13.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Akanksha Sharma** from **Himachal Pradesh University, Shimla**, has successfully completed Internship in the department of **Laboratory Medicine** with Jaypee Healthcare Limited from **10.01.2024 to 09.02.2024.**

She was found sincere and hard working during this tenure.

We wish her all the best for her future endeavours.

For **Jaypee Healthcare Limited**

**Authorized Signatory**
**Human Resources**

JAYPEE HOSPITAL Sector-128 Noida-201304 (U.P.) A Unit of Jaypee Healthcare Ltd.

# CERTIFICATE

Shri Lal Bahadur Shastri
Govt. Medical College & Hospital
Mandi at Ner Chowk, Himachal Pradesh

**Email address = prslbsgmchmandi@gmail.com / Office Telephone No. 01905-243945, 243950, Fax No. 01905-243949**

**No.HFW-SLBSGMC&H(Student Section)(Certificate)2023/-** 5322 **Dated Mandi the** 1 **March, 2024**

## INTERNSHIP/OBSERVERSHIP CERTIFICATE

**TO WHOM IT MAY CONCERNED**

This is to certify that Miss. Anchal Thakur D/O Sh. Surender Singh, student of (M.Sc. Microbiology) of Himachal Pradesh University has undergone Internship/ Observership Training for the period of two months under the following mentioned departments of Shri Lal Bahadur Shastri Govt. Medical College & Hospital, Mandi at Nerchowk, Distt. Mandi, HP: -

1. Department of Microbiology w.e.f. 02/01/2024 to 29/02/2024

Her conduct has been found good during the above said Internship / Observership period. I wish her all success in his life.

Dated : March, 2024
Place : SLBSGMC&H Mandi at Nerchowk

Principal
SLBSGMC&H Mandi at Nerchowk
Distt. Mandi, Himachal Pradesh

Shaping Minds to Scientific Approach

DNA Labs
A Centre for Applied Sciences

ISO 9001:2015

DNA Labs-A Centre for Applied Sciences (DLCAS) Dehradun, Uttarakhand
**NABL (National Accreditation Board for Testing and Calibration) Accredited, ICMR (Indian Council for Medical Research) Approved and ISO 9001:2015- Certified Laboratories**

**Ref No: DLCAS/23-24/T-AS/274** **Date: 01/03/2024**

# *Certificate*

This is to certify that **Mr. Anirudh Sharma** of **M.Sc. Microbiology** from **Himachal Pradesh University, Summer Hills, Shimla, Himachal Pradesh,** did short term project from **DNA Labs- A Centre for Applied Sciences, Dehradun, Uttarakhand**, on the topic; **"Correlation of XRCC Gene Polymorphisms with Various Biopsies and Brush Cytologies Suspected of Malignancies for Epigenetic study.",** from 02nd January, 2024 to 01st March, 2024. This work should not be published, even in part without the prior written permission of the undersigned. His work and conduct during the period was good.

**DNA Labs- A Centre for Applied Sciences, Dehradun wishes a great academic growth for the future.**

Dr. Hina Ruhela,
MBBS, MD,
Consultant Microbiologist

DNA Labs - A Centre For Applied Sciences (DLCAS) Dehradun (U.K.)

**Dr. Ankita Singh,**
**Junior Scientist and Quality Manager**
DNA Labs-A Centre for Applied Sciences

DNA Labs - A Centre For Applied Sciences (DLCAS) Dehradun (U.K.)

**Dr. Narotam Sharma**
**Scientist and Head, Laboratories**
DNA Labs-A Centre for Applied Sciences

LABORATORY- 1: Main Kargi Road, Near Vidya Vihar Phase I, Pathri Bagh Chowk, Dehradun-248001, Uttarakhand.
LABORATORY- 2: CRIS- A Center for Research and Innovative Studies, Laxmipur, Behind Vigyan Dham -248007, Uttarakhand. +91-9557650069, +91-8894943074, +91-9027312357, Email:dnalabscas@gmail.com, Website:www.dnalabscas.com

# CERTIFICATE

Shri Lal Bahadur Shastri
Govt. Medical College & Hospital
Mandi at Ner Chowk, Himachal Pradesh

Email address = prslbsgmchmandi@gmail.com / Office Telephone No.
01905-243945, 243950, Fax No. 01905-243949

No HFW-SLBSGMC&H)Student Section)(Certificate)2023/. 5725 Dated Mandi the 1/ March, 2024

## INTERNSHIP/OBSERVERSHIP CERTIFICATE

### TO WHOM IT MAY CONCERNED

This is to certify that Mr. Ankit Sharma S/O Sh. Sanjay Sharma, student of (M.Sc. Microbiology) of Himachal Pradesh University has undergone Internship/ Observership Training for the period of two months under the following mentioned departments of Shri Lal Bahadur Shastri Govt. Medical College & Hospital, Mandi at Nerchowk, Distt. Mandi, HP: -

1. Department of Microbiology w.e.f. 04/01/2024 to 29/02/2024

His conduct has been found good during the above said Internship / Observership period. I wish him all success in his life.

Dated : March, 2024
Place : SLBSGMC&H Mandi at Nerchowk

Principal 1/3/24
SLBSGMC&H Mandi at Nerchowk
Distt. Mandi, Himachal Pradesh

# Central Research Institute
# Kasauli

# CERTIFICATE

Certified that Ms. Archna Sharma D/o Sudarshan Kumar, student of M.Sc Microbiology, Himachal Pradesh University, Shimla has undergone practical training in **"Diagnostic Reagent Production"** at Central Research Institute, Kasauli during the period 01-01-2024 to 31-01-2024.

**(Dr. Subhadip Mahapatra)**
**AD/Head Training**

केन्द्रीय अनुसंधान संस्थान
31 JAN 2024

**(Dr. Dimple Kasana)**
**Director**

भा.कृ.अ.प.-केंद्रीय आलू अनुसंधान संस्थान
शिमला-171001, हि.प. (भारत)
ICAR-Central Potato Research Institute
(Indian Council of Agricultural Research)
SHIMLA 171 001, HP

Phone: 0177-2625073 (O), Fax: 0177-2624460 ISO 9001:2015
E-mail: directorcpri@gmail.com Website: http://cpri.icar.gov.in

Dr. Som Dutt
Incharge, PME Cell

No F.PME/04-50/2024
Dated: 22.02.2024

## TRAINING CERTIFICATE

This is to certify that **Ms. Bandana Devi** student of M. Sc. Microbiology, Himachal Pradesh University, Shimla has undergone training in the Division of Plant Protection, w.e.f. 03rd January, 2024 to 20th February, 2024 at ICAR - Central Potato Research Institute, Shimla.

Dated: 22nd February, 2024

Incharge, PME Cell

In-Charge PME Cell
Central Potato Research Institute
Shimla-171001 (HP)

# Central Research Institute
# Kasauli

## CERTIFICATE

Certified that Mr. Deepak Sharma S/o Om Dutt, student of M.Sc Microbiology, Himachal Pradesh University, Shimla has undergone practical training in **"Quality Control & Quality Assurance Of Immunobiologicals"** at Central Research Institute, Kasauli during the period 01-01-2024 to 31-01-2024.

(Dr. Subhadip Mahapatra)
AD/Head Training

(Dr. Dimple Kaseraka)
Director

सी.एस.आई.आर-हिमालय जैवसंपदा प्रौद्योगिकी संस्थान
पो॰ बॉ॰ न॰ 6 पालमपुर - 176 061 (हि.प्र.) भारत
CSIR-INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY
Post Box No. 6 Palampur (H.P.) 176 061 INDIA
CSIR-IHBT

**Dr. Gireesh Nadda**
**Principal Scientist**
**Coordinator, Training Programme**
**Email:- training@ihbt.res.in**

31st January, 2024

**TO WHOM IT MAY CONCERN**

This is to certify that **Ms. Diksha Kumari,** a student of M.Sc. Microbiology, Department of Microbiology, Himachal Pradesh University, Shimla (H.P.) undertook her training on the topic entitled **"Hands-on training in basic molecular techniques for enzyme engineering"** under the supervision of **Dr. Dharam Singh,** Principal Scientist, Biotechnology Division w.e.f. 01st January, 2024 to 31st January, 2024 at this Institute.

During the training programme, her conduct was found good.

I wish her all the success in her future endeavours.

गिरीश नड्डा

**(Gireesh Nadda)**

मेल/E-mail : director@ihbt.res.in
साइट/Website : http://www.ihbt.res.in
ई.पी.ए.बी.एक्स/EPABX : 91-1894-230742-43,233338-39
फैक्स/Fax : 91-1894-230433

# Central Research Institute
# Kasauli

# CERTIFICATE

Certified that Ms. Garima Jaryal D/o Bhupinder Singh Jaryal, student of M.Sc.Microbiology,Himachal Pradesh University, Shimla, has undergone practical training in **"Quality Control and Quality Assurance of Immunobiologicals"** at Central Research Institute, Kasauli during the period 01-01-2023 to 31-01-2023.

**(Dr. Subhadip Mahapatra)**
**AD/Head Training**

**(Dr. Dimple Kasana)**
**Director**

Director
Central Research Institute
Kasauli (H.P.)- 173204

An ISO 9001:2008 certified company

# Orbit Biotech®

Estd. 2006

**Certificate no.**

**ZBS/OB/2324/P-614**

# CERTIFICATE

## Research Project

This is to certify that ***Mr. Gopal Singh S/o Sh. Hari Singh,*** *a* student of M.Sc. Microbiology, Himachal Pradesh University, Summer Hill, Shimla has successfully completed the Internship training research project titled ***"To Produce Probiotic Juice from Lactobacillus Acidophilus and to check its Antimicrobial Activity against Human Pathogens"*** at Orbit Biotech, Mohali from 08th January, 2024 to 07th February 2024 *(01 months)*.

Research Project

**Celebrating 15th Anniversary**

Director, Orbit Biotech

07-02-2024

Date of Issue

Certificate Verification Link

N.R. HOSPITAL
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N. R. Hospital

•OBG • Surgery • Eye •Pediatrics • Medicine • E.N.T. • Dental • General Surgery • Orthopaedics • Urology
•Physiotherapy • Audiology • Speech Therapy • Dermatology • CT Scan (16 Slice) • Pathology • Endoscopy
•3d, 4d Ultrasound • Histopathology

Date : 05/02/2024

# TO WHOM IT MAY CONCERN

This is to certify that **Ms. Jagriti Sharma**, D/O- **Shri Kashmir Singh**, a student of M.Sc. Microbiology (3rd semester), Himachal Pradesh University, Shimla (H.P.) has successfully completed one month (From 4th Jan, 2024 – 05th Feb, 2024) internship programme in Microbiology at N.R. Hospital, Chandpur, Bilaspur (H.P). During the period of her internship programme with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Managing Director
N.R. Hospital
Chandpur, Bilaspur (HP)

**Dr. Amit Kumar**
**Head, Microbiologist**

**Mrs. Puja Pal**
**Managing Director**

Chandpur, Distt. Bilaspur (H.P.), Mob. : 98161-42532, 97365-14253, 82191-83377
www.nrhospital.in, Email. : nrhp016@gmail.com

# Central Research Institute
# Kasauli

# CERTIFICATE

Certified that Ms. Kanchan D/o Chaman Lal, student of M.Sc Microbiology, Himachal Pradesh University, Shimla has undergone practical training in **"Diagnostic Reagent Production"** at Central Research Institute, Kasauli during the period 01-01-2024 to 31-01-2024.

**(Dr. Subhadip Mahapatra)**
**AD/Head Training**

C. R. I. KASAULI

**(Dr. Dimple Kasana)**
**Director**

**POSTGRADUTE INSTITUTE OF MEDICAL EDUCATION & RESEARCH,**
स्नातकोत्तर चिकित्सा शिक्षा और अनुसंधान संस्थान, चंडीगढ़

**ACADEMIC SECTION**
(प्रशिक्षण शाखा)
दूरभाष: 0172-2755569
ईमेल: sta7062@gmail.com

**No. D.11013/STA/4801/24/253** **Dated:-** 08-2-2024

To

The Chairman
Deptt. of Microbiology
Himachal Pradesh University,
Summer Hill, Shimla – 171005 (H.P)

**Sub: Short Term attachment/observership in the Deptt. of Medical Microbiology PGIMER, Chandigarh.**

Reference your letter dated: 29.12.2023 on the subject noted above.

It is to inform you that **Ms. Minakshi & Ms. Yashica Kaushal,** Master students of Microbiology, Deptt. of Medical Microbiology from your institute joined as short term attachment/ observership in the department of Medical Microbiology, PGIMER, Chandigarh on 05.01.2024 and has completed on 04.02.2024. He has been relieved from short term attachment/ observership at this institute on 04.02. 2024 (A.N.) to report to his parent Institute/Hospital.

During his short term attachment/observership in the department, his work and conduct were satisfactory. **The short term attachment/observership is not to be counted as experience of working in PGIMER, Chandigarh.**

प्रशासनिक अधिकारी
शैक्षणिक अनुभाग
Admn. Officer,
Academic Section
PGIMER, Chd.




**Central Research Institute**
**Kasauli**

# CERTIFICATE

Certified that Ms. Muskan Garg D/o Rajeev Garg, student of M.Sc.Microbiology, Himachal Pradesh University Shimla, has undergone practical training in **"Quality Control and Quality Assurance of Immunobiologicals"** at Central Research Institute, Kasauli during the period 01-01-2023 to 31-01-2023.

**(Dr. Subhadip Mahapatra)**
**AD/Head Training**

**(Dr. Dimple Kasana)**
**Director**

Director
Central Research Institute
Kasauli (H.P.)- 173204

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# Orbit Biotech®

*Estd. 2006*

**Certificate no.**

**ZBS/OB/2324/P-612**

# CERTIFICATE

## Research Project

This is to certify that ***Ms. Neelam D/o Sh. Sita Ram,*** *a* student of M.Sc. Microbiology, Himachal Pradesh University, Summer Hill, Shimla has successfully completed the Internship training research project titled ***"Production of Probiotic Juice from Papaya Pulp and to check its Antimicrobial Activity against Pathogenic Bacteria"*** at Orbit Biotech, Mohali from 08th January, 2024 to 07th February 2024 *(01 months).*

Research Project

**Celebrating 15th Anniversary**

Director, Orbit Biotech

07-02-2024

Date of Issue

www.orbitbiotech.com

Certificate Verification Link



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Aakash Healthcare
Super Speciality Hospital
We care, He cures

H-2019-0613

Date : 05-02-2024
Ref.No. AHPL/Academics/February/2024/252

## INTERNSHIP CERTIFICATE

This is to certify that **Ms. Neha Sharma** D/o Mr. Vrindavan, a bonafide student of Master In Microbiology (4th Semester) of Himachal Pradesh University, Summer Hill, Shimla, Himachal Pradesh 171005, Registration No. 22-SP-17 has done her internship with us from **6th January 2024 to 5th February 2024** in **Microbiology in the department of Lab Medicine.**

During the period of internship, we found her sincere, hard working and a good team worker.

The signature of **Ms. Neha Sharma** are verified below.

We wish her all the best in her future endeavours.

**Dr. Harpreet Kaur**
Sr. Consultant & HOD
Lab Services & Blood Bank

**Dr. Kamal K Parwal**
Chief Medical Advisor &
Director Academics and Research

Dr. Kamal K. Parwal
MBBS, MS (Ortho), MBA (Healthcare Services)
Medical Advisor
Director - Academics & Clinical Research
Aakash Healthcare
Super Speciality Hospital
Hospital Plot, Road No. 201, Sector-3,
Dwarka, New Delhi-110075

Signature of Candidate : Neha Sharma
Name of the Student : **Ms. Neha Sharma**

# Central Research Institute
# Kasauli

## CERTIFICATE

Certified that Ms. Poonam D/o Rakesh Kumar, student of M.Sc Microbiology, Himachal Pradesh University, Shimla has undergone practical training in **"Serotyping of E.Coli and Salmonella"** at Central Research Institute, Kasauli during the period 01-01-2024 to 31-01-2024.

(Dr. Subhadip Mahapatra)
AD/Head Training

31 JAN 2024

(Dr. Dimple Kasana)
Director

भा.कृ.अ.प - केंद्रीय आलू अनुसंधान संस्थान
शिमला-171001, हि.प्र. (भारत)
ICAR-Central Potato Research Institute
(Indian Council of Agricultural Research)
SHIMLA 171 001, HP

Phone: 0177-2625073 (O), Fax: 0177-2624460 ISO 9001:2015
E-mail- directorcpri@gmail.com Website : http//cpri.icar.gov.in

**Dr. Som Dutt**
**Incharge, PME Cell**

No.F.PME/04-50/2024
Dated: 28.02.2024

## TRAINING CERTIFICATE

This is to certify that **Ms. Poonam Sharma** student of M. Sc. Microbiology, Himachal Pradesh University, Shimla has undergone training in the Division of Plant Protection, w.e.f. 03rd January, 2024 to 28th February, 2024 at ICAR - Central Potato Research Institute, Shimla.

SOM
28.2.2024

Dated: 28th February, 2024

Incharge, PME Cell

प्रभारी, पी.एम.ई. सेल
In - Charge P.M.E. Cell
केन्द्रीय आलू अनुसंधान संस्थान
Central Potato Research Institute
शिमला / Shimla - 171001 (H.P.)

# Shri Lal Bahadur Shastri
## Govt. Medical College & Hospital
Mandi at Ner Chowk, Himachal Pradesh

**Email address = prslbsgmchmandi@gmail.com / Office Telephone No. 01905-243945, 243950, Fax No. 01905-243949**


**No.HFW-SLBSGMC&H(Student Section)(Certificate)2023/-** 5324 **Dated Mandi the** 1/ **March, 2024**

# INTERNSHIP/OBSERVERSHIP CERTIFICATE

## TO WHOM IT MAY CONCERNED

This is to certify that Mr. Priyanshu Sharma S/O Sh. Arun Kumar Sharma, student of (M.Sc. Microbiology) of Himachal Pradesh University has undergone Internship/ Observership Training for the period of two months under the following mentioned departments of Shri Lal Bahadur Shastri Govt. Medical College & Hospital, Mandi at Nerchowk, Distt. Mandi, HP: -

1. Department of Microbiology w.e.f. 02/01/2024 to 29/02/2024

His conduct has been found good during the above said Internship / Observership period. I wish him all success in his life.

Dated : March, 2024
Place : SLBSGMC&H Mandi at Nerchowk

Principal 1/3/24
SLBSGMC&H Mandi at Nerchowk
Distt. Mandi, Himachal Pradesh

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DNA Labs-A Centre for Applied Sciences (DLCAS) Dehradun, Uttarakhand
**NABL (National Accreditation Board for Testing and Calibration) Accredited, ICMR (Indian Council for Medical Research) Approved and ISO 9001:2015- Certified Laboratories**

**Ref No: DLCAS/23-24/T-RD/273** **Date: 01/03/2024**

# *Certificate*

This is to certify that **Mr. Ritik Dogra** of **M.Sc. Microbiology** from **Himachal Pradesh University, Summer Hills, Shimla, Himachal Pradesh,** did short term project from **DNA Labs- A Centre for Applied Sciences, Dehradun, Uttarakhand**, on the topic; **"Detection and Correlation of Vitamin D Receptor (VDR) Gene Polymorphism in Patients with Type 2 Diabetes Mellitus.",** from 02nd January, 2024 to 01st March, 2024. This work should not be published, even in part without the prior written permission of the undersigned. His work and conduct during the period was good.

**DNA Labs- A Centre for Applied Sciences, Dehradun wishes a great academic growth for the future.**

DNA Labs - A Centre For Applied Sciences (DLCAS) Dehradun (U.K.)

Dr. Hina Ruhela,
MBBS, MD,
Consultant Microbiologist

DNA Labs - A Centre For Applied Sciences (DLCAS) Dehradun (U.K.)

**Dr. Ankita Singh,**
**Junior Scientist and Quality Manager**
DNA Labs-A Centre for Applied Sciences

**Dr. Narotam Sharma**
**Scientist and Head, Laboratories**
DNA Labs-A Centre for Applied Sciences

भा.कृ.अ.प.-केंद्रीय आलू अनुसंधान संस्थान
शिमला-171001, हि.प. (भारत)
ICAR-Central Potato Research Institute
(Indian Council of Agricultural Research)
SHIMLA 171 001, HP

CPRI

ISO 9001:2015

Phone: 0177-2625073 (O), Fax: 0177-2624460
E-mail- directorcpri@gmail.com Website : http://cpri.icar.gov.in

Dr. Som Dutt
Incharge, PME Cell

No.F.PME/04-50/2024
Dated: 29.02.2024

## TRAINING CERTIFICATE

This is to certify that **Ms. Ritika Devi** student of M. Sc. Microbiology, Himachal Pradesh University, Shimla has undergone training in the Division of CPB&PHT, w.e.f. 03rd January, 2024 to 29th February, 2024 at ICAR - Central Potato Research Institute, Shimla.

Som

Incharge, PME Cell

Dated: 29th February, 2024

In-Charge PME Cell
Central Potato Research Institute
Shimla (H.P.)

# CERTIFICATE

Shri Lal Bahadur Shastri
Govt. Medical College & Hospital
Mandi at Ner Chowk, Himachal Pradesh

Email address = prslbsgmchmandi@gmail.com / Office Telephone No. 01905-243945, 243950, Fax No. 01905-243949

No.HFW-SLBSGMC&H)Student Section)(Certificate)2023/- 5323 Dated Mandi the 1/ March, 2024

## INTERNSHIP/OBSERVERSHIP CERTIFICATE

**TO WHOM IT MAY CONCERNED**

This is to certify that Miss. Ritu D/O Sh. Hardeep Singh, student of (M.Sc. Microbiology) of Himachal Pradesh University has undergone Internship/ Observership Training for the period of two months under the following mentioned departments of Shri Lal Bahadur Shastri Govt. Medical College & Hospital, Mandi at Nerchowk, Distt. Mandi, HP: -

1. Department of Microbiology w.e.f. 02/01/2024 to 29/02/2024

Her conduct has been found good during the above said Internship / Observership period. I wish her all success in his life.

Dated : March, 2024
Place : SLBSGMC&H Mandi at Nerchowk

Principal
SLBSGMC&H Mandi at Nerchowk
Distt. Mandi, Himachal Pradesh

# Central Research Institute
# Kasauli

# CERTIFICATE

Certified that Ms. Sakshi D/o Mulkh Raj, student of M.Sc Microbiology, Himachal Pradesh University, Shimla has undergone practical training in **"Diagnostic Reagent Production"** at Central Research Institute, Kasauli during the period 01-01-2024 to 31-01-2024.

**(Dr. Subhadip Mahapatra)**
**AD/Head Training**

केन्द्रीय अनुसंधान संस्थान
31 JAN 2024
कसौली

**(Dr. Dimple Kasana)**
**Director**

# Central Research Institute
# Kasauli

# CERTIFICATE

Certified that Ms. Sakshi Kapoor D/o Rajesh Kumar, student of M.Sc Microbiology, Himachal Pradesh University, Shimla has undergone practical training in **"Diagnostic Reagent Production"** at Central Research Institute, Kasauli during the period 01-01-2024 to 31-01-2024.

**(Dr. Subhadip Mahapatra)**
**AD/Head Training**

C R I KASAULI
31 JAN 2024

(Dr. Dimple Kasana)
Director

N.R. HOSPITAL
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# N. R. Hospital

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•Physiotherapy • Audiology • Speech Therapy • Dermatology • CT Scan (16 Slice) • Pathology • Endoscopy
•3d, 4d Ultrasound • Histopathology

Date : 05/02/2024

## TO WHOM IT MAY CONCERN

This is to certify that **Ms. Shilpa Kumari** D/O- **Shri Piar Singh**, a student of M.Sc. Microbiology (3rd semester), Himachal Pradesh University, Shimla (H.P.) has successfully completed one month (From 4th Jan. 2024 – 05th Feb. 2024) internship programme in Microbiology at N.R. Hospital, Chandpur, Bilaspur (H.P). During the period of her internship programme with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Dr. Amit Kumar
Head, Microbiologist

Managing Director
N.R. Hospital
Chandpur, Bilaspur (HP)
Mrs. Puja Pal
Managing Director

Chandpur, Distt. Bilaspur (H.P.), Mob. : 98161-42532, 97365-14253, 82191-83377
www.nrhospital.in, Email. : nrhp016@gmail.com

# Central Research Institute
# Kasauli

## CERTIFICATE

Certified that Ms. Shivani Thakur D/o Lekh Ram, student of M.Sc.Microbiology,Himachal Pradesh University, Shimla, has undergone practical training in **"Serotyping of *E. Coli* and Salmonella"** at Central Research Institute, Kasauli during the period 01-01-2023 to 31-01-2023.

**(Dr. Subhadip Mahapatra)**
**AD/Head Training**

**(Dr. Dimple Kasana)**
**Director**

Director
Central Research Institute
Kasauli (H.P.)- 173204

भा.कृ.अ.प - केंद्रीय आलू अनुसंधान संस्थान
शिमला-171001, हि.प्र. (भारत)
**ICAR-Central Potato Research Institute**
**(Indian Council of Agricultural Research)**
**SHIMLA 171 001, HP**

Phone: 0177-2625073 (O), Fax: 0177-2624460 ISO 9001:2015
E-mail- directorcpri@gmail.com Website : http//cpri.icar.gov.in

**Dr. Som Dutt**
**Incharge, PME Cell**

No.F.PME/04-50/2024
Dated: 29.02.2024

## TRAINING CERTIFICATE

This is to certify that **Ms. Shivani Thakur** student of M. Sc. Microbiology, Himachal Pradesh University, Shimla has undergone training in the Division of CPB&PHT, w.e.f. 03rd January, 2024 to 29th February, 2024 at ICAR - Central Potato Research Institute, Shimla.

Som

Dated: 29th February, 2024

Incharge, PME Cell

प्रभारी, पी.एम.ई. सेल
In - Charge P.M.E. Cell
केन्द्रीय आलू अनुसंधान संस्थान
Central Potato Research Institute
शिमला / Shimla - 171001 (H.P.)

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•Physiotherapy •Audiology • Speech Therapy • Dermatology • CT Scan (16 Slice) • Pathology • Endoscopy
•3d, 4d Ultrasound • Histopathology

Date : 05/02/2024

## TO WHOM IT MAY CONCERN

This is to certify that Ms. **Simran Dhiman**, D/O- **Shri Sunil Kumar**, a student of M.Sc. Microbiology (3rd semester), Himachal Pradesh University, Shimla (H.P.) has successfully completed one month (From 4th Jan, 2024 – 05th Feb. 2024) internship programme in Microbiology at N.R. Hospital, Chandpur, Bilaspur (H.P). During the period of her internship programme with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

**Dr. Amit Kumar**
**Head, Microbiologist**

Managing Director
N.R. Hospital
Chandpur, Bilaspur (HP)

**Mrs. Puja Pal**
**Managing Director**

Chandpur, Distt. Bilaspur (H.P.), Mob. : 98161-42532, 97365-14253, 82191-83377
www.nrhospital.in, Email. : nrhp016@gmail.com

**POSTGRADUTE INSTITUTE OF MEDICAL EDUCATION & RESEARCH,**
स्नातकोत्तर चिकित्सा शिक्षा और अनुसंधान संस्थान, चंडीगढ

**ACADEMIC SECTION**
(प्रशिक्षण शाखा)
दूरभाष: 0172-2755569
ईमेल: sta7062@gmail.com

**No. D.11013/STA/4801/24/253** **Dated:-** 08-2-2024

**To**

The Chairman
Deptt. of Microbiology
Himachal Pradesh University,
Summer Hill, Shimla – 171005 (H.P)

**Sub: Short Term attachment/observership in the Deptt. of Medical Microbiology PGIMER, Chandigarh.**

Reference your letter dated: 29.12.2023 on the subject noted above.

It is to inform you that **Ms. Minakshi & Ms. Yashica Kaushal, Master students** of Microbiology, Deptt. of Medical Microbiology from your institute joined as short term attachment/ observership in the department of Medical Microbiology, PGIMER, Chandigarh on 05.01.2024 and has completed on 04.02.2024. He has been relieved from short term attachment/ observership at this institute on 04.02.2024 (A.N.) to report to his parent Institute/Hospital.

During his short term attachment/observership in the department, his work and conduct were satisfactory. **The short term attachment/observership is not to be counted as experience of working in PGIMER, Chandigarh.**

प्रशासनिक अधिकारी
शैक्षणिक अनुभाग
Admn. Officer,
Academic Section
PGIMER, Chd.

Dr. Shikha Devi
(M. Sc., Ph.D., Post Doc.)
Assistant Professor
Microbiology
(Guest Faculty)

**Department of Microbiology**
**HIMACHAL PRADESH UNIVERSITY**
**(NAAC Accredited "A" Grade University)**
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shikhasharma003@gmail.com
Phone: +91-8219184390, 9805446563 (M)

**Micro-Bio No. ...408.....**
**Dated: ...13th Aug. 2024**

# CERTIFICATE

This is certified that the research work entitled **"Optimization of cellulase production by bacterial isolate S7 using the weed *Lantana camara* and its application in bioethanol production"** submitted by **Ms. Akanksha Sharma (Roll No.85220010001)** in partial fulfilment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** under my guidance. She has compiled this document by studying the published literature available in public domain/internet and other sources. Further, to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution. No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of undersigned.

I wish her all success for her future endeavours.

Shikha Devi
10/7/24
**(Dr. Shikha Devi)**

**DEPARTMENT OF MICROBIOLOGY**

**HIMACHAL PRADESH UNIVERSITY**

(NAAC Accredited "A" Grade University)
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Mail: karusnow24@gmail.com

Phone: 8968154884(M)

**Dr. KARUNA SHARMA**
**(M.Sc, Ph.D Microbiology)**

**Micro-Bio No.** 401

**Dated:** 1 Aug, 2024

# CERTIFICATE

This certificate is awarded to **Ms. Anchal Thakur (85220010002)** in recognition of the successful completion of their Master's dissertation titled **"ASSESSMENT OF THYME OIL-LOADED CHITOSAN MICROPARTICLES FOR ENHANCED ANTIBACTERIAL EFFICACY AGAINST PATHOGENIC BACTERIA"** submitted for partial fulfillment of the requirements for the **Master of Science degree in Microbiology** at **Himachal Pradesh University, Shimla**. The dissertation, guided by **Guest Faculty (Assistant Professor) Dr. Karuna Sharma** investigated research problem and employed key research methods. This certificate signifies the dedication to rigorous research, strong analytical, critical thinking, and writing skills, all of which were demonstrably applied throughout the successful completion of this dissertation. This document has not been submitted earlier for consideration for the award of any degree or diploma from Himachal Pradesh University, Shimla, or any other institution. No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.

Karuna

**(Dr Karuna Sharma)**

Department of Microbiology
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*Dr. Sushila Devi*
*(M.Sc., M .Phil., Ph.D., ARS NET)*
*Associate Professor-Microbiology*
*Chairperson- Department of Microbiology*

**Ref. No. :** Micro 429

**Dated:** 03/09/2024

# CERTIFICATE

This is to certify that the research work entitled, **"Exploring the Antimicrobial Potential of Endophytic Microorganisms Isolated from Rich Flora of Himachal Pradesh"** submitted by **Mr Anirudh Sharma** in the partial fulfilment for the degree of **Master of Science (M.Sc.)** in **Microbiology** to the **Department of microbiology,** Himachal Pradesh University, Shimla, contains original work carried out by the candidate under my supervision in the Department of Microbiology. Further, no part of this dissertation has been submitted for any other degree of this or any other University/Institution.

I wish him success in his future endeavours.

Date: 03.09.2024

Place: Shimla

**Dr. Sushila Devi**

**Supervisor**

Chairperson
Deptt. of Microbiology
Himachal Pradesh University
Summer Hill, Shimla-171005 (H.P.)

**Department of Microbiology**
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***Dr. Sushila Devi***
***(M.Sc., M .Phil., Ph.D., ARS NET)***
***Associate Professor-Microbiology***
***Chairperson- Department of Microbiology***

**Ref. No. :** MICR0431

**Dated:** 3/9/24

# CERTIFICATE

This is to certify that the research work entitled, **"To Study the Underexplored Potential of Hot Spring Microorganisms by Investigating the Microbial Diversity and Antibiotic Production Capabilities of Bacteria Isolated from Different Hot Spring of Himachal Pradesh"** submitted by **Mr. Ankit Sharma** in the partial fulfilment for the degree of **Master of Science (M.Sc.)** in **Microbiology** to the **Department of Microbiology,** Himachal Pradesh University, Shimla, contains original work carried out by the candidate under my supervision in the Department of Microbiology. Further, no part of this dissertation has been submitted for any other degree of this or any other University/ Institutions.

I wish him success in his future endeavors.

Date: 03/09/2024

Place: Shimla

**Dr. Sushila Devi**
**Supervisor**

Chairperson
Deptt. of Microbiology
Himachal Pradesh University
Summer Hill, Shimla-171005 (H.P.)

**Department of Microbiology**
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***Dr. Sushila Devi***
***(M.Sc., M .Phil., Ph.D., ARS NET)***
***Associate Professor-Microbiology***
***Chairperson- Department of Microbiology***

**Ref. No. :** MSc/417

**Dated:** 27.8.2024

# CERTIFICATE

This is to certify that the research work entitled, **"Green biosynthesis of Silver nanoparticles using leaf extracts of *Terminalia bellerica* and *Ricinus communis* and their antimicrobial and antioxidant activity against pathogenic bacteria"** submitted by **Ms. Archna Sharma** in the partial fulfilment for the degree of **Master of Science (M.Sc.)** in **Microbiology** to the **Department of Microbiology,** Himachal Pradesh University, Shimla, contains original work carried out by the candidate under my supervision in the Department of Microbiology. Further, no part of this dissertation has been submitted for any other degree of this or any other University/ Institutions.

I wish her success in her future endeavors.

Date: 27.08.24

Place: Shimla

**Dr. Sushila Devi**
**Supervisor**

Chairperson
Dept. of Microbiology
Himachal Pradesh University
Summer Hill, Shimla-171005 (H.P.)

**Department of Microbiology**
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***Dr. Sushila Devi***
***(M.Sc., M.Phil., Ph.D., ARS NET)***
***Associate Professor-Microbiology***
***Chairperson- Department of Microbiology***

**Ref. No.:** Micro-425
**Dated:** 02/09/2024

# CERTIFICATE

This is to certify that the research work entitled, **" Green Biosynthesis of Silver Nanoparticles using Leaf Extract of *Cannabis sativa* and Assessing their Antimicrobial and Antioxidant Activity Against Pathogenic Bacteria"** submitted by **Ms. Bandana Devi** in the partial fulfilment for the degree of **Master of Science (M.Sc.)** in **Microbiology** to the **Department of Microbiology,** Himachal Pradesh University, Shimla, contains original work carried out by the candidate under my supervision in the Department of Microbiology. Further, no part of this dissertation has been submitted for any other degree of this or any other University/ Institutions.

I wish her success in her future endeavors.

Date: 02/09/2024
Place: Shimla

**Dr. Sushila Devi**
**Supervisor**

Chairperson
Dept. of Microbiology
Himachal Pradesh University
Summer Hill, Shimla-171005 (H.P.)

Department of Microbiology
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*Dr. Sushila Devi*
*(M.Sc., M .Phil., Ph.D., ARS NET)*
*Associate Professor-Microbiology*
*Chairperson- Department of Microbiology*

**Ref. No. :** Micro-430

**Dated:** 03-09-2024

# CERTIFICATE

This is to certify that the research work entitled, **"Biodegradation and Characterization of Polystyrene by Bacterial Isolates Isolated from Industrial Waste Water Effluent"** submitted by **Mr. Deepak Sharma** in the partial fulfilment for the degree of **Master of Science (M.Sc.)** in **Microbiology** to the **Department of Microbiology,** Himachal Pradesh University, Shimla, contains original work carried out by the candidate under my supervision in the Department of Microbiology. Further, no part of this dissertation has been submitted for any other degree of this or any other University/ Institutions.

I wish him success in his future endeavors.

**Date:** 03.09.2024
**Place:** Shimla

**Dr. Sushila Devi**
**Supervisor**
Chairperson
Deptt. of Microbiology
Himachal Pradesh University
Summer Hill, Shimla-171005 (H.P.)

Department of Microbiology
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*Dr. Poonam*
(M.Sc., Ph.D., ARS NET)

Micro-Bio No ...411.....
Dated: ..16th August, 2024.....

# CERTIFICATE

This is to certify that the entitled **"Isolation and characterization of biofilm producing bacteria for their application in biodegradation of dyes and pesticides"** has been carried out by **Ms. Diksha Kumari (Roll No.85220010008)** submitted to the **Department of Microbiology, Himachal Pradesh University Shimla,** in partial fulfillment for the Degree of **"Master of Science (M.Sc.) in Microbiology"** under the guidance of **Dr. Poonam, Assistant Professor** (Guest facility). The content of the dissertation being submitted contains original work done by her under my supervision in Department of Microbiology, Himachal Pradesh University, Shimla. Further, to the best of my knowledge and belief, no part of this dissertation has been earlier submitted for any other degree to this and any other University/Institute.

*I wish her success in her future endeavors.*

Poonam 16/8/24
**Dr. Poonam**
**Supervisor**

**Department of Microbiology**
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***Dr. Sushila Devi***
***(M.Sc., M .Phil., Ph.D., ARS NET)***
***Associate Professor-Microbiology***
***Chairperson- Department of Microbiology***

**Ref. No. :** Micro/419
**Dated:** 30th Aug., 2024

## CERTIFICATE

This is to certify that the research work entitled, "**Isolation and Characterization of Phosphate Solubilizing Bacteria from rhizospheric soil of *Pisum sativum* L. (pea) plant and efficacy of bacterial consortium in the growth of pea plant**" submitted by Ms. Garima Jaryal in the partial fulfilment for the degree of Master of Science (M.Sc.) in Microbiology to the Department of Microbiology, Himachal Pradesh University, Shimla, contains original work carried out by the candidate under my supervision in the Department of Microbiology. Further, no part of this dissertation has been submitted for any other degree of this or any other University/ Institutions.

I wish her success in her future endeavors.

**Date:** 30.08.2024
**Place:** Shimla

**Dr. Sushila Devi Negi**
**Supervisor**

Chairperson
Deptt. of Microbiology
Himachal Pradesh University
Summer Hill, Shimla-171005 (H.P.)

Dr. KARUNA SHARMA
(M.Sc, Ph.D Microbiology)

Department of Microbiology
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(NAAC Accredited "A" Grade University)
Summer Hill, Shimla-171005 (HP), India

Mail: karusnow24@gmail.com

Phone: 8968154884(M)

Micro-Bio No. 404

Dated: 08 Aug 2024

# CERTIFICATE

This is certified that the research work entitled **"ANTIMICROBIAL AND ANTIFOULING EFFICACY OF FOLEY'S CATHETER-COATED WITH CHITOSAN AND GENTAMICIN SULPHATE AVERTS BACTERIAL COLONIZATION AGAINST UROPATHOGENS"** is submitted by **Mr. Gopal Singh (Roll No. 85220010010)** in partial fulfillment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** at **Department of Microbiology, Himachal Pradesh University, Shimla.** The dissertation was guided by **Guest Faculty (Assistant Professor) Dr. Karuna Sharma**. He has compiled this document by studying the published literature in the public domain/internet and other sources. Further, to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma from Himachal Pradesh University, Shimla, or any other institution. No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of the undersigned. I wish him all success in his future endeavors.

Karuna

**(Dr Karuna Sharma)**

**Dr. Bharti**
**Assistant Professor- Microbiology**
**(M.Sc., Ph.D Microbiology)**

**DEPARTMENT OF MICROBIOLOGY**
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**email:bhartiminhas065@gmail.com,**
**bhartiyadav065@gmail.com**

***Ref. No.*** Micro.:.427

# CERTIFICATE

This is to certify that the research work titled **"Antibacterial efficacy of selected plant extracts: An *In vitro* analysis"** submitted in partial fulfillment of the requirement for the degree of **Masters of Science (M.Sc.) in Microbiology by Ms. Jagriti Sharma (85220010011)** has been executed under my supervision and guidance. The content of the dissertation being submitted contains original work done by her in the Department of Microbiology, Himachal Pradesh University, Shimla. No part of this research work will be published or presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.

I wish her a bright future ahead.

**Dated** 03rd Sep., 2024
**Place** Summer Hill, Shimla.

03/09/24
**Dr. Bharti**
**(Supervisor)**

**Department of Microbiology**
**HIMACHAL PRADESH UNIVERSITY**
(NAAC Accredited "A" Grade University)
**Summer Hill, Shimla-171005 (HP), India**
**Mail:** poonamkatochmicro@gmail.com

***Dr. Poonam***
(M.Sc., Ph.D., ARS NET)

Micro-Bio No ..MICRO-418...
Dated: ....27-08-2024.....

## CERTIFICATE

This is to certify that the entitled **"Isolation of siderophore producing plant growth promoting rhizobacteria and evaluation of siderophores for their antimicrobial potential"** has been carried out by ***Ms. Kanchan*** **(Roll No. 85220010012)** in partial fulfillment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** under the guidance of **Dr. Poonam**, Assistant Professor (Guest faculty). The content of the dissertation being submitted contains original work done by her under my supervision in Department of Microbiology, Himachal Pradesh University, Shimla. Further, to the best of my knowledge and belief, no part of this dissertation has been earlier submitted for any other degree to this and any other University/Institute.

*I wish her success in her future endeavours.*

Poonam

**Dr. Poonam**
**Supervisor**

**Dr. Bharti**
**Assistant Professor- Microbiology**
**(M.Sc., Ph.D Microbiology)**

**DEPARTMENT OF MICROBIOLOGY**
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**email:** *bhartiminhas065@gmail.com,*
*bhartiyadav065@gmail.com*

***Ref. No.*** MiCro 434

## CERTIFICATE

**This is to certify that the research work titled "Characterization of multidrug resistant bacterial isolates from poultry" submitted in partial fulfillment of the requirement for the degree of Masters of Science (M.Sc.) in Microbiology by Minakshi (85220010013) has been executed under my supervision and guidance. The content of the dissertation being submitted contains original work done by her in the Department of Microbiology, Himachal Pradesh University, Shimla. No part of this research work will be published or presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.**

**I wish her a bright future ahead.**

**Dated** 05th Sep., 2024
**Place** Summer Hill, Shimla

05/09/24
**Dr. Bharti**
**(Supervisor)**

Dr. Shikha Devi
(M. Sc., Ph.D., Post Doc.)
Assistant Professor
Microbiology
(Guest Faculty)

**Department of Microbiology**
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shikhasharma003@gmail.com
Phone: +91-8219184390, 9805446563 (M)

**Micro-Bio No.** ...406.....
**Dated:** 13th August 2024

# CERTIFICATE

This is certified that the research work entitled **"Degradation of rifampicin antibiotic, antioxidant and antimicrobial potential of AgNPs biosynthesized using methanol extract of *Debregeasia longifolia*"** submitted by **Ms. Muskan Garg (Roll No. 85220010014)** in partial fulfilment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** under my guidance. She has compiled this document by studying the published literature available in public domain/internet and other sources. Further, to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution. No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of undersigned.

I wish her all success for her future endeavours.

Shikha Devi
25/6/24
**(Dr. Shikha Devi)**

**Dr. Bharti**
**Assistant Professor- Microbiology**
**(M.Sc., Ph.D Microbiology)**

**DEPARTMENT OF MICROBIOLOGY**
**HIMACHAL PRADESH UNIVERSITY**
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**Phone: +91-7559174965(M), 70182274999 (M)**
**email:*bhartiminhas065@gmail.com*, *bhartiyadav065@gmail.com***

***Ref. No.*** Micro.433

# CERTIFICATE

This is to certify that the research work titled **"Screening of virulence factors among Gram negative bacterial isolates from selected environmental sites"** submitted in partial fulfillment of the requirement for the degree of **Masters of Science (M.Sc.) in Microbiology by Ms. Neelam (85220010015)** has been executed under my supervision and guidance. The content of the dissertation being submitted contains original work done by her in the Department of Microbiology, Himachal Pradesh University, Shimla. No part of this research work will be published or presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.

I wish her a bright future ahead.

**Dated** 05th Sep., 2024
**Place** Summer Hill, Shimla

05/09/24
**Dr. Bharti**
**(Supervisor)**

Dr. Shikha Devi
(M. Sc., Ph.D., Post Doc.)
Assistant Professor
Microbiology
(Guest Faculty)

**Department of Microbiology**
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**(NAAC Accredited "A" Grade University)**
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Mail: shikhasharmadbt@gmail.com ;
shikhasharma003@gmail.com
Phone: +91-8219184390, 9805446563 (M)

**Micro-Bio No.** ....407.....
**Dated:** ..13th August 2024

# CERTIFICATE

This is certified that the research work entitled **Green synthesis of silver nanoparticles using acetone extract of *Polystichum vestitum* for dye degradation, antioxidant and antimicrobial applications** submitted by **Ms. Neha Sharma (Roll No. 85220010016)** in partial fulfillment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** under my guidance. She has compiled this document by studying the published literature available in public domain/internet and other sources. Further, to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution. No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of undersigned.

I wish her all success for her future endeavours.

Shikha Devi
25/6/24
**(Dr. Shikha Devi)**

**DEPARTMENT OF MICROBIOLOGY**
**HIMACHAL PRADESH UNIVERSITY**
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**email:bhartiminhas065@gmail.com, bhartiyadav065@gmail.com**

**Dr. Bharti**
**Assistant Professor- Microbiology**
**(M.Sc., Ph.D Microbiology)**

*Ref. No.* Micro.:428

# CERTIFICATE

This is to certify that the research work titled **"Isolation and screening of thermophiles for their potential applications"** submitted in partial fulfillment of the requirement for the degree of **Masters of Science (M.Sc.) in Microbiology by Ms. Poonam (85220010017)** has been executed under my supervision and guidance. The content of the dissertation being submitted contains original work done by her in the Department of Microbiology, Himachal Pradesh University, Shimla. No part of this research work will be published or presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.

I wish her a bright future ahead.

03/09/24
**Dr. Bharti**
**(Supervisor)**

**Dated** 03rd Sep., 2024
**Place** Summer Hill, Shimla-

Department of Microbiology
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited "A" Grade University)
Summerhill, Shimla-171005(HP), India
Mail- karunsow24@gmail.com

**Dr. Karuna Sharma**
**M.Sc., Ph.D**
**Microbiology**

---

**Ref. No...405.....**

**Dated ...9-8-2024.....**

## CERTIFICATE

This is certified that the research work entitled **"Evaluation of the antibacterial potential of *Tinospora cordifolia* and *Ocimum sanctum* extract against common human pathogens"** has been carried out by **Poonam Sharma (Roll No. 85220010018), submitted to the Department of Microbiology Himachal Pradesh University Shimla,** in partial fulfillment for the Degree of **"Master of Science (M.Sc.) in Microbiology"**. The dissertation guided by **Guest faculty (Assistant Professor) Dr. Karuna Sharma** investigated the research problem and employed key research methods. The content of the dissertation being submitted contains original work done by her under my supervision in **Department of Microbiology,** Himachal Pradesh University, Shimla. Further, no part of this dissertation has been earlier submitted for any other degree to this and any other university/institute without the written permission of the undersigned.

Karuna

**Dr. Karuna Sharma**

**Supervisor**

**Place...Shimla.....**

**Dr. Bharti**
**Assistant Professor- Microbiology**
**(M.Sc., Ph.D Microbiology)**

**DEPARTMENT OF MICROBIOLOGY**
**HIMACHAL PRADESH UNIVERSITY**
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**Phone: +91-7559174965(M), 70182274999 (M)**
**email:*bhartiminhas065@gmail.com*, *bhartiyadav065@gmail.com***

***Ref. No.*** MICRO/431....

# CERTIFICATE

This is to certify that the research work titled **"Characterization of multi-drug-resistant gram-negative bacteria from agricultural fields and screening for plant growth promoting traits"** submitted in partial fulfillment of the requirement for the degree of **Masters of Science (M.Sc.) in Microbiology by Mr. Priyanshu (85220010019)** has been executed under my supervision and guidance. The content of the dissertation being submitted contains original work done by her in the Department of Microbiology, Himachal Pradesh University, Shimla. No part of this research work will be published or presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.

I wish him a bright future ahead.

Bharti 30/08/24

**Dated** 30th Aug., 2024
**Place** Summer Hill, Shimla

**Dr. Bharti**
**(Supervisor)**

**Department of Microbiology**
**HIMACHAL PRADESH UNIVERSITY**
Summer Hill, Shimla-171005 (H.P.), India
(NAAC Accredited "A" Grade University)
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Email: negisush80@gmail.com

***Dr. Sushila Devi***
***(M.Sc., M .Phil., Ph.D., ARS NET)***
***Associate Professor-Microbiology***
***Chairperson- Department of Microbiology***

**Ref. No. :** Micro- 424

**Dated:** 02/09/2024

## CERTIFICATE

This is to certify that the research work entitled, **"Exploring Microbial Diversity in *Malus domestica* 'Royal Gala' (D) Plant Rhizosphere and Development of Microbial Consortia to Evaluate its Efficacy in Plant Growth Promotion"** submitted by **Mr. Ritik Dogra** in the partial fulfilment for the degree of **Master of Science (M.Sc.)** in **Microbiology** to the **Department of Microbiology,** Himachal Pradesh University, Shimla, contains original work carried out by the candidate under my supervision in the Department of Microbiology. Further, no part of this dissertation has been submitted for any other degree of this or any other University/ Institutions.

I wish him success in his future endeavors.

**Place: Shimla**

**Date:** 02/09/2024

**Dr. Sushila Devi**

**Supervisor**

Chairperson
Deptt. of Microbiology
Himachal Pradesh University
Summer Hill, Shimla-171005 (H.P.)

**Department of Microbiology**
**HIMACHAL PRADESH UNIVERSITY**
(NAAC Accredited "A" Grade University)
**Summer Hill, Shimla-171005 (HP), India**
**Mail:** poonamkatochmicro@gmail.com

*Dr. Poonam*
**(M.Sc., Ph.D., ARS NET)**

Micro-Bio No MICRO-432
Dated: 03-09-2024

# CERTIFICATE

This is to certify that the research work entitled **"Unlocking the potential of fruit and vegetable peel bioactive components in food preservation and edible film formulation"** has been carried out by ***Ms. Ritika Devi*** **(Roll No. 85220010021)** in partial fulfillment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** under the guidance of **Dr. Poonam,** Assistant Professor (Guest faculty). The content of the dissertation being submitted contains original work done by her under my supervision in Department of Microbiology, Himachal Pradesh University, Shimla. Further, to the best of my knowledge and belief, no part of this dissertation has been earlier submitted for any other degree to this and any other University/Institute.

*I wish her success in her future endeavours.*

Poonam
**Dr. Poonam**
**Supervisor**

**DEPARTMENT OF MICROBIOLOGY**
**HIMACHAL PRADESH UNIVERSITY**
(NAAC Accredited "A" Grade University)
**Summer Hill, Shimla-171005 (HP), India**
**Phone: +91-7559174965(M), 70182274999 (M)**
**email:bhartiminhas065@gmail.com, bhartiyadav065@gmail.com**

**Dr. Bharti**
**Assistant Professor- Microbiology**
**(M.Sc., Ph.D Microbiology)**

***Ref. No.*** 416

# CERTIFICATE

This is to certify that the research work titled **"Isolation, characterization, and exploration of biotechnological potentials of halophilic bacteria"** submitted in partial fulfillment of the requirement for the degree of **Masters of Science (M.Sc.) in Microbiology by Ms. Ritu (85220010022)** has been executed under my supervision and guidance. The content of the dissertation being submitted contains original work done by her in the Department of Microbiology, Himachal Pradesh University, Shimla. No part of this research work will be published or presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.

I wish her a bright future ahead.

23/08/24
**Dr. Bharti**
**(Supervisor)**

**Dated** 23rd Aug., 2024
**Place** Summer Hill, Shimla

Dr. Shikha Devi
(M. Sc., Ph.D., Post Doc.)
Assistant Professor
Microbiology
(Guest Faculty)

**Department of Microbiology**
**HIMACHAL PRADESH UNIVERSITY**
**(NAAC Accredited "A" Grade University)**
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Mail: shikhasharmadbt@gmail.com ;
shikhasharma003@gmail.com
Phone: +91-8219184390, 9805446563 (M)

**Micro-Bio No.** 409
**Dated:** 13th August 2024

# CERTIFICATE

This is certified that the research work entitled in partial fulfilment of the requirements for the award of the Degree of **"Biosynthesis of silver nanoparticles using methanol leaf extract of *Lantana camara* and their antimicrobial potential against bacterial pathogens isolated from pigeon faeces"** submitted by **Miss. Sakshi (Roll No. 85220010023)** in partial fulfillment of the requirements for the award of the degree of **"Master of Science (M.Sc.) in Microbiology"** under my guidance. She has compiled this document by studying the published literature available in public domain/internet and other sources. Further, to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution. No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of undersigned.

I wish her all success for her future endeavours.

Shikha Devi
25/6/24
**(Dr. Shikha Devi)**

Department of Microbiology
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited "A" Grade University)
Summer Hill, Shimla-171005 (HP), India
Mail: poonamkatochmicro@gmail.com

*Dr. Poonam*
(M.Sc., Ph.D., ARS NET)

Micro-Bio No .....412.....
Dated: ..16th August, 2024...

# CERTIFICATE

This is to certify that the research work entitled **"Exploring bacteria for biodegradation of different types of dyes and unveiling potential binding sites of dyes with dye degrading enzymes using molecular docking studies"** has been carried out by ***Ms. Sakshi Kapoor*** **(Roll No. 85220010024)** in partial fulfillment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** under the guidance of **Dr. Poonam**, Assistant Professor (Guest faculty). The content of the dissertation being submitted contains original work done by her under my supervision in Department of Microbiology, Himachal Pradesh University, Shimla. Further, to the best of my knowledge and belief, no part of this dissertation has been earlier submitted for any other degree to this and any other University/Institute.

*I wish her success in her future endeavours.*

Poonam 16/8/24

**Dr. Poonam**
**Supervisor**

Dr. KARUNA SHARMA
(M.Sc, Ph.D Microbiology)

Department of Microbiology
**HIMACHAL PRADESH UNIVERSITY**
(NAAC Accredited "A" Grade University)
Summer Hill, Shimla-171005 (HP), India

Mail: karusnow24@gmail.com
Phone: 8968154884(M)

**Micro-Bio No.** 403
**Dated:** 1 August 2024

# CERTIFICATE

This is certified that the research work entitled **"Novel insight on plant extracts to prevent virulence factors expression and biofilm formation by Uropathogens"** submitted by **Ms. Shilpa Kumari (Roll No. 85220010025)** in partial fulfillment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** at **Himachal Pradesh University, Shimla.** The dissertation was guided by **Guest Faculty (Assistant Professor) Dr. Karuna Sharma**. She has compiled this document by studying the published literature in the public domain/internet and other sources. Further, to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma from Himachal Pradesh University, Shimla, or any other institution. No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of the undersigned. I wish her all success in her future endeavors.

Karuna

**(Dr Karuna Sharma)**

**Dr. Bharti**
**Assistant Professor- Microbiology**
**(M.Sc., Ph.D Microbiology)**

**DEPARTMENT OF MICROBIOLOGY**
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**Phone: +91-7559174965(M), 70182274999 (M)**
**email:*bhartiminhas065@gmail.com*, *bhartiyadav065@gmail.com***

***Ref. No.*** Micro...420....

# CERTIFICATE

This is to certify that the research work titled **"Characterization of multidrug resistant gram negative bacteria from municipal corporation sites and screening for plant growth promoting traits"** submitted in partial fulfillment of the requirement for the degree of **Masters of Science (M.Sc.) in Microbiology by Ms. Shivani Thakur (85220010026)** has been executed under my supervision and guidance. The content of the dissertation being submitted contains original work done by her in the Department of Microbiology, Himachal Pradesh University, Shimla. No part of this research work will be published or presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.

I wish her a bright future ahead.

30/08/24
**Dr. Bharti**
**(Supervisor)**

**Dated:** 30th Aug., 2024
**Place:** Summer Hill, Shimla

Dr. Shikha Devi
(M. Sc., Ph.D., Post Doc.)
Assistant Professor
Microbiology
(Guest Faculty)

**Department of Microbiology**
**HIMACHAL PRADESH UNIVERSITY**
**(NAAC Accredited "A" Grade University)**
**Summer Hill, Shimla-171005 (HP), India**
Mail: shikhasharmadbt@gmail.com ;
shikhasharma003@gmail.com
Phone: +91-8219184390, 9805446563 (M)

**Micro-Bio No.** ...410.....
**Dated:** 13th August., 2024..

# CERTIFICATE

This is certified that the research work entitled **"Utilization of plant extract-mediated green synthesized nanoparticles for the development of herbal-based bandages and investigation of their antioxidant and antimicrobial properties"** submitted by **Mrs. Shivani Thakur (Roll No.85220010027)** in partial fulfilment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** under my guidance. She has compiled this document by studying the published literature available in public domain/internet and other sources. Further, to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution. No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of undersigned.

I wish her all success for her future endeavours.

Shikha Devi
25/6/24
**(Dr. Shikha Devi)**

# DEPARTMENT OF MICROBIOLOGY

## HIMACHAL PRADESH UNIVERSITY

(NAAC Accredited "A" Grade University)
Summer Hill, Shimla-171005 (HP), India

Mail: karusnow24@gmail.com
Phone: 8968154884(M)

**Dr. KARUNA SHARMA**
**(M.Sc, Ph.D Microbiology)**


**Micro-Bio No.** 402
**Dated:** 1st Aug 2024

# CERTIFICATE

This is certified that the research work entitled " **Repurposing herbal extracts as antimicrobial agents against bacterial pathogens isolated from UTI** submitted by **Ms. Simran Dhiman (Roll No. 85220010028)** in partial fulfillment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** at **Himachal Pradesh University, Shimla.** The dissertation was guided by **Guest Faculty (Assistant Professor) Dr. Karuna Sharma**. She has compiled this document by studying the published literature in the public domain/internet and other sources. Further, to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma from Himachal Pradesh University, Shimla, or any other institution. No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of the undersigned. I wish her all success in her future endeavors.

Karuna

**(Dr Karuna Sharma)**

**Department of Microbiology**
**HIMACHAL PRADESH UNIVERSITY**
(NAAC Accredited "A" Grade University)
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**Mail:** poonamkatochmicro@gmail.com

***Dr. Poonam***
(M.Sc., Ph.D., ARS NET)

Micro-Bio No 435
Dated: 5/9/2024

# CERTIFICATE

This is to certify that the research work entitled **"Evaluation of Probiotic Potential of Microorganisms Isolated from Homemade Fermented Products"** has been carried out by ***Ms. Yashica Kaushal*** **(Roll No. 85220010029)** in partial fulfillment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Microbiology"** under the guidance of **Dr. Poonam**, Assistant Professor (Guest faculty). The content of the dissertation being submitted contains original work done by her under my supervision in Department of Microbiology, Himachal Pradesh University, Shimla. Further, to the best of my knowledge and belief, no part of this dissertation has been earlier submitted for any other degree to this and any other University/Institute.

*I wish her success in her future endeavours.*

Poonam

**Dr. Poonam**
**Supervisor**

MTTM 4th Semester

| S. No. | Exam Roll No. | Candidate's Name |
|---|---|---|
| 1 | 39220010001 | AATISH THAKUR |
| 2 | 39220010002 | ABHISHEK CHAMBIYAL |
| 3 | 39220010003 | ADARSH KASHYAP |
| 4 | 39220010004 | AKSHAT KAMAL |
| 5 | 39220010005 | AKSHIT |
| 6 | 39220010006 | AMAN KUMAR |
| 7 | 39220010007 | AMAN SHARMA |
| 8 | 39220010008 | AMIT KUMAR AZAD |
| 9 | 39220010009 | ANKIT KUMAR |
| 10 | 39220010010 | ANKITA RANA |
| 11 | 39220010011 | ANSHIKA RANA |
| 12 | 39220010012 | ANURAG THAKUR |
| 13 | 39220010013 | ARUN THAKUR |
| 14 | 39220010014 | ASHA DEVI |
| 15 | 39220010015 | ASTHA |
| 16 | 39220010016 | BALJIT SINGH |
| 17 | 39220010017 | DIKSHANT BHANDARI |
| 18 | 39220010018 | DIPANSHI |
| 19 | 9220010019 | DUJAL SEASH |
| 20 | 39220010020 | GAURAV |
| 21 | 39220010021 | GOURAV |
| 22 | 39220010022 | HIMANSHU SINGH MEHTA |
| 23 | 39220010023 | ISHIKA |
| 24 | 39220010024 | ISHITA ROACH |
| 25 | 39220010025 | JATIN BHARDWAJ |
| 26 | 39220010026 | KANISHIKA SHARMA |
| 27 | 39220010027 | KAPIL GULERIA |
| 28 | 39220010028 | KARTIKAY SINGH DOD |
| 29 | 39220010029 | KRITIKA THAKUR |
| 30 | 39220010030 | KULDEEP SINGH |
| 31 | 39220010032 | NAMAN SHARMA |

| | | |
|---|---|---|
| 33 | 39220010034 | NIKHIL CHANDEL |
| 34 | 39220010035 | NITIN CHANDEL |
| 35 | 39220010036 | NITIN RATHOUR |
| 36 | 39220010037 | Ojas Chauhan |
| 37 | 39220010038 | PITAMBER LAL |
| 38 | 39220010039 | PRANAV SHYAM |
| 39 | 39220010040 | PRIKSHIT RATHORE |
| 40 | 39220010041 | Priya |
| 41 | 39220010042 | PRIYANKA |
| 42 | 39220010043 | RAHUL |
| 43 | 39220010044 | RAJAT KUMAR |
| 44 | 39220010045 | RATTAN BHARTI |
| 45 | 39220010046 | RIDHI |
| 46 | 39220010047 | SAHIL BISHT |
| 47 | 39220010048 | SAHIL KUMAR |
| 48 | 39220010049 | SAHIL KUMAR SINGH |
| 49 | 39220010050 | SAKSHAM SOOD |
| 50 | 39220010051 | SAKSHI THAKUR |
| 51 | 39220010052 | SAPNA THAKUR |
| 52 | 39220010053 | SARVAISHTY THAKUR |
| 53 | 39220010054 | SAURAV MEHTA |
| 54 | 39220010055 | SHEERSH PRABHAT |
| 55 | 39220010056 | SHIVAM |
| 56 | 39220010057 | SHIVAM GURUNG |
| 57 | 39220010058 | SHUBHAM THAKUR |
| 58 | 39220010059 | SONIKA DEV |
| 59 | 39220010060 | TUSHAR THAKUR |
| 60 | 39220010061 | UJJWAL CHAUHAN |
| 61 | 39220010062 | VISHAL |
| 62 | 39220010063 | VISHAL LUTHU |
| 63 | 39220010064 | AASHISH NEGI |
| 64 | 39220010065 | KAPIL SHARMA |

Director

LIST OF MTTM 3rd semester students 2022-24

| S. No. | Exam Roll No. Exam Type | Candidate's Name Father's Name | Supervisor | Research Project Title |
|---|---|---|---|---|
| 1 | 39220010001 | AATISH THAKUR HARISH | | |
| 2 | 39220010002 | ABHISHEK CHAMBIYAL SURESH KUMAR CHAMBIYAL | | |
| 3 | 39220010003 | ADARSH KASHYAP SWARAN SINGH | | Significance of Light Itineracy and Light operations. |
| 4 | 39220010004 | AKSHAT KAMAL SURESH KAMAL | Prof. Chandu | |
| 5 | 39220010005 | AKSHIT Mast Ram | Mohan Parshaw | — |
| 6 | 39220010006 | AMAN KUMAR RAKESH KUMAR | | |
| 7 | 39220010007 | AMAN SHARMA Rajesh sharma | | |
| 8 | 39220010008 | AMIT KUMAR AZAD Bega nand | | |
| 9 | 39220010009 | ANKIT KUMAR MANOHAR LAL | | |
| 10 | 39220010010 | ANKITA RANA Narinder Pal | | |
| 11 | 39220010011 | ANSHIKA RANA PARSHOTAM RANA | | |
| 12 | 39220010012 | ANURAG THAKUR devinder thakur | | Impact of Rain Disaster (2023) on Tourism Industry of Himachal and Preparedness for Future |
| 13 | 39220010013 | ARUN THAKUR Bir Singh | | |
| 14 | 39220010014 | ASHA DEVI VIJAY KUMAR | | |
| 15 | 39220010015 | ASTHA Raj narayan | Prof. | |
| 16 | 39220010016 | BALJIT SINGH KULVINDER SINGH | Sonia Ishan | — |
| 17 | 39220010017 | DIKSHANT BHANDARI PRADEEP BHANDARI | | — |

| | | | | |
|---|---|---|---|---|
| | 39220010018 | DIPANSHI<br>SANJEEV KUMAR | | Impact of Rain Disaster (2023) |
| 19 | 39220010019 | DUJAL SEASH<br>TIKAM RAM | | on Tourism Industry of |
| 20 | 39220010020 | GAURAV<br>RAJESH KUMAR | Prof. Sonia Kohan | Himachal and Preparedness for Future |
| 21 | 39220010021 | GOURAV<br>Neel Kumar | | |
| 22 | 39220010022 | HIMANSHU SINGH MEHTA<br>BIR SINGH MEHTA | | — |
| 23 | 39220010023 | ISHIKA<br>ASHWANI KUMAR | | -do- |
| 24 | 39220010024 | ISHITA ROACH<br>SANJAY ROACH | | |
| 25 | 39220010025 | JATIN BHARDWAJ<br>Satish kumar | | |
| 26 | 39220010026 | KANISHIKA SHARMA<br>ASHWANI KUMAR | Prof. | |
| 27 | 39220010027 | KAPIL GULERIA<br>JAI KUMAR GULERIA | Sushma Rawal Chopra | |
| 28 | 39220010028 | KARTIKAY SINGH DOD<br>HARISH DOD | | 'Authenticity as |
| 29 | 39220010029 | KRITIKA THAKUR<br>Rajeshwer Chand | | a Pathway to |
| 30 | 39220010030 | KULDEEP SINGH<br>SIDARTH | | Sustainable |
| 31 | 39220010031 | LEELA VATI<br>ses ram | | Cultural tourism' |
| 32 | 39220010032 | NAMAN SHARMA<br>Puran Dutt Sharma | | (Students can |
| 33 | 39220010034 | NIKHIL CHANDEL<br>BHIM SINGH CHANDEL | | write about case- |
| 34 | 39220010035 | NITIN CHANDEL<br>RAJESH SINGH | | studies of |
| 35 | 39220010036 | NITIN RATHOUR<br>jag jivan rathour | | any destinations of Himachal Pradesh) |

| | | | | |
|---|---|---|---|---|
| | 39220010037 | Ojas Chauhan<br>RAM GOPAL | | |
| | 39220010038 | PITAMBER LAL<br>keshav ram | | |
| 38 | 39220010039 | PRANAV SHYAM<br>PRAMOD PAL SHYAM | | |
| 39 | 39220010040 | PRIKSHIT RATHORE<br>UDAYRavi rathore | | |
| 40 | 39220010041 | Priya<br>roop singh | Prof. Nitin Vyas | |
| 41 | 39220010042 | PRIYANKA<br>SITA RAM | | Taking Tourism to Rural Areas of Himachal Pradesh: A Case Study of Shimla district. |
| 42 | 39220010043 | RAHUL<br>NAND KUMAR | | |
| 43 | 39220010044 | RAJAT KUMAR<br>Man dass | | |
| 44 | 39220010045 | RATTAN BHARTI<br>Balraj | | |
| 45 | 39220010046 | RIDHI<br>SANJEEV KUMAR | | |
| 46 | 39220010047 | SAHIL BISHT<br>RAM SINGH BISHT | | |
| 47 | 39220010048 | SAHIL KUMAR<br>ramesh kumar | | Impact of Social Media on Destination Branding. |
| 48 | 39220010049 | SAHIL KUMAR SINGH<br>BUNTI KUMAR SINGH | | |
| 49 | 39220010050 | SAKSHAM SOOD<br>Abnesh Sood | | |
| 50 | 39220010051 | SAKSHI THAKUR<br>Krishan lal | Dr. Vinit Kamal | |
| 51 | 39220010052 | SAPNA THAKUR<br>Suraj Mani | | — |
| 52 | 39220010053 | SARVAISHTY THAKUR<br>RAJESH THAKUR | | — |
| 53 | 39220010054 | SAURAV MEHTA<br>Prakash mehta | | — |
| 54 | 39220010055 | SHEERSH PRABHAT<br>praveen chand | | — |
| 55 | 39220010056 | SHIVAM<br>UTTAM CHAND | | — |
| 56 | 39220010057 | SHIVAM GURUNG<br>vijay kumar gurung | Mr. Vishal Mehra | Role of transportation in tourism industry of Himachal Pradesh. |
| 57 | 39220010058 | SHUBHAM THAKUR<br>Ashok Kumar | | |

| | | | | |
|---|---|---|---|---|
| | 9220010059 | SONIKA DEV RAJ | | |
| 59 | 39220010060 | TUSHAR THAKURUTTAM CHAND | | |
| 60 | 39220010061 | UJJWAL CHAUHAN Jugmohan Chauhan | | Role of transportation in Tourism Industry of Himachal Pradesh. |
| 61 | 39220010062 | VISHAL Man bahadur | Mr. Vishal Mehra | |
| 62 | 39220010063 | VISHAL LUTHU BRAHMA NAND | | |
| 63 | 39220010064 | AASHISH NEGI chet ram negi | | |
| 64 | 39220010065 | KAPIL SHARMA CHAMAN LAL | | |

# Internship Certificate

# of Batch 2023-24

SBP Travels

Travel The World With Us...

# CERTIFICATE

## OF EXCELLENCE

**PRESENTED TO :**

*Sahil Kumar Singh*

This is to certify that Sahil Kumar Singh completed the internship with SBP travels Solan

SHWETA SURI

PROPRIETOR

**INDO ASIA LEISURE SERVICES PRIVATE LIMITED**
(Formerly known as *INDO ASIA LEISURE SERVICES LTD.)*
CIN: U63040DL1988PTC031449

**Date: 30-04-2024**

## TO WHOMSOEVER IT MAY CONCERN

## Internship Completion Letter

This is to certify that **Mr. Nitin Rathore** has successfully completed the 4 months internship program at Indo Asia Leisure Services Pvt. Ltd. The internship start date was 3rd January, 2024 and end date was 30thApril, 2024.

Throughout the internship, **Mr. Nitin Rathore** demonstrated a strong understanding of the working of a travel agency in Pre-sales, Contracting, Marketing and Operations departments, contributing significantly to our team's objectives.

We applaud **Mr. Nitin Rathore** for their outstanding performance, professionalism, and valuable contributions to our organization. We believe he has gained invaluable experience and skills that will serve them well in their future endeavors.

Sincerely,

HR Department

Indo Asia Leisure Services Pvt. Ltd.

Indo Asia Leisure Services Pvt. Ltd.

Director/Authorised Signatory

Authorized Signatory

☐ **DELHI (Regd. Office)**
DGL 229, DLF Galleria,
Mayur Vihar District Centre,
Mayur Vihar Phase-1, Delhi - 110091
E-mail: info@indoasiatours.com
Website: www.indoasia-tours.com

☐ **GURUGRAM (Head Office)**
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56, Institutional Area, Sector - 44
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Ph .: +91-124-4534500 / 600
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E-mail: info@indoasiatours.com
Website: www.indoasia-tours.com

☐ **BENGALURU**
102, Skylark Residency, Wind Tunnel Road,
Murgeshpalya, Bangalore - 560 017
Tel. : 91-80-25224695 / 4327
Fax : 91-80-25227108
E-mail : bangalore@indoasiatours.com
Web: www.indoasia-tours.com

☐ **CHENNAI (MADRAS)**
1K, Mandira Appartments,
23-D, North Boag Road,
T. Nagar, Chennai - 600 017
Tel. : 91-44-28152473, 28155785
Fax : 91-44-28152313
E-mail : chennai@indoasiatours.com
Web: www.indoasia-tours.com

# HIMACHAL PRADESH TOURISM DEVELOPMENT CORPORATION LTD

## HIMACHAL BHAWAN CHANDIGARH
## (A STATE GOVT. UNDERTAKING)

Tel. No. (0172)2638278,85,5000104Email: bhawanchd@hptdc.in Website: www.hptc.in

Ref.No.CHB-110-2022-Vol.VI-576

Dated: 30-05-2024

## TO WHOM IT MAY CONCERN.

*This is to certified that Mr. Aman Sharma S/o Sh. Rajesh Sharma Vill. Roso Po. Sadhot Teh. Sarkaghat Distt. Mandi (HP) Pin 175024 a student of MTTM (Masters of Tourism and Travel Management) studding in Himachal Pradesh University, Shimla under Roll No.:-39220010007 has successfully completed his INDUSTRIAL JOB TRANING at (HPTDC) Himachal Bhawan, Chandigarh for Four months from February.2024 to May.2024. During his training his work and conduct was found EXCELLENT.*

*We wish him every success in his future.*

Deputy General Manager
Himachal Bhawan Chandigarh

Dy. General Manager
Himachal Bhawan
Plot No. 4, Sec. 28-B,
Chandigarh

3/6/24
Director
IVS Dept. HPU Shimla

M.T.A.
Institute of Vocational Studies
H.P.U. Shimla-171005

FOOTSLOG

GSTIN - 02ALUPV4867D1ZM

Ref. No. HFS-01062024/1

To
Name of the person: **Ms. Priyanka**
Date: 01/06/2024

## To Whom It May Concern:

This is to certify that **Ms. Priyanka** student of HPU Shimla (MTTM) has done her internship as Executive Trainee at Himalayan Footslog Holidays, From 1st January ,2024 to 31st May,2024.

During this period, her services were found to be outstanding in carrying out the job duties.

**Work Responsibilities - were to:**

1) Collect payment for transportation accommodations from customers.
2) Book transportation hotel reservations, using mail or telephone for Domestic Clients.
3) Plan, describe, arrange, and sell itinerary tour packages.
4) Print or request transportation carrier tickets, using a computer printer system.

We wish her all the best for her upcoming career.

Vaibhav Verma

HIMALAYAN FOOTSLOG HOLIDAYS
1st Floor, Quality Restaurant Building
Main Bazar Chirgaon 171208
Shimla Himachal Pradesh

Himalayan Footslog Holidays
Ground Floor, Mehta Villa, Upper Khalini Chowk, Shimla, Himachal Pradesh.
Quality Restaurant Building ,1st Floor ,Main Bazar Chirgaon Distt. Shimla Himachal Pradesh.
Approved by the Government of Himachal Pradesh, Department of tourism.
Landline: - 01781-292230 || 0177-2627252 || Mobile Operations: - +91-[8353040008 || 8353010033
Email: - :himalayanfootslog@gmail.com
Website: - http://himalayanfootslog.com/

SafeHands Travels
Always with you

**SafeHands Travels Pvt. Ltd.**

2ND FLOOR, KCB0040205, TOWER KLASSIC
JAYPEE WISHTOWN SECTOR 134, NOIDA

Gautam Buddha Nagar CIN:
U63000DL2015PTC284826

GST No: 09AAWCS2305R1ZH

Mob: +91-9811690305; Email:
info@safehandstravels.com

Website: www.safehandstravels.com

**Safehandstravels**

## Experience Letter

**Date: May 29, 2024**

To whom It May Concern,

This is to certify that Mr. Prikshit Rathore was employed With Safehands travels as an Intern trainee from January 29, 2024, to May 29, 2024. During his tenure, Mr. Prikshit Rathore displayed exceptional dedication, initiative, and proficiency in fulfilling his responsibilities. As an Intern trainee, Mr. Prikshit Rathore role was crucial in maintaining the high standards of service that Safehands travels is known for. He actively engaged with vendors and suppliers to secure the most competitive prices for travel packages, showcasing his strong negotiation skills and commitment to delivering value to our clients.

Mr. Prikshit Rathore also demonstrated excellent proficiency in managing the tour experiences of travellers. He consistently ensured that all aspects of the travel arrangements were executed seamlessly, paying meticulous attention to detail and addressing any traveller concerns promptly and effectively. His ability to handle unexpected challenges with composure and find swift solutions greatly contributed to the overall positive experience of our travellers. Furthermore, Mr. Prikshit Rathore was instrumental in the onboarding process of new travellers. His clear communication, warm demeanour, and comprehensive knowledge of travel arrangements made the onboarding process smooth and hassle-free for our clients. Throughout his time with Safehands travels, Mr. Prikshit Rathore exhibited a strong work ethic, a proactive attitude, and a genuine passion for providing exceptional travel experiences. He was an invaluable member of our team, contributing to the growth and success of our company. We sincerely thank Mr. Prikshit Rathore for his dedication and commitment during his employment with Safehands travels. We are confident that his positive attitude and excellent skills will continue to serve him well in his future endeavours.

**We wish him the very best in all his future undertakings.**

Sincerely,

Rohit Srivastava

Founder



# CERTIFICATE



Reg. No -11-1070/2017-GTDOSML

**Black Mountain**

*Tour & Travel Company*

Ref.No- 2020-503

Date- 28-04-2024

**TO WHOM-SO-EVER IT MAY CONCERN**

This is to certify that **Priya Thakur** worked as **SALES DEPARTMENT** in our company from **25th January 2024** to **25 April 2024** with our entire satisfaction. During his working period we found him a sincere, honest, hardworking, dedicated employee with a professional attitude and very good job knowledge. He is intelligent and we'll character. We have no objection to allow him in any better position and have no liabilities in our company.

We wish him every success in life.

Sincerely,

Name: PARAS KADAIK
Designation: GENERAL MANAGER
Company Name: BLACKMOUNTAIN TOUR AND TRAVEL

Head Office : Dev Bhawan, Khalini, Shimla, Himachal Pradesh, India - 171 002

Ph. : 0177-2629935 Cell : 93185-24888, 93181-05869, 88949-49439, 93187-73776

Corp. Office : Ground Floor, Avadh Palace, The Mall, Shimla (H.P.), India - 171 001

Ph. : 0177-2811933 Cell : 93181-03902, 93181-08471, 93185-24333, 93188-73360

**Ref: COIT/HR/2024-25/0001**

**Date: May 5, 2024**

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Mr. Akshat Kamal S/o Sh. Suresh Kamal** has completed his Industrial Training in Sales & Marketing department in our organization from **02nd January 2024 to 30th April 2024.**

During his tenure we found him honest and a team player.

We wish him all the best for his future prospects.

For Colors of India Tours Private Limited

**Mohinder Prakash**
**H R Manager**

**HIMACHAL PRADESH UNIVERSITY**
**BACHELOR OF HOTEL MANAGEMENT(BHM)**

**Semester:** 4th
**SUBJECT: I*ndustrial Exposure Training***

| S.No. | Roll No. | Name of the student |
|---|---|---|
| 1. | 26220010001 | ADITYA KASHYAP |
| 2. | 26220010002 | AKSHANSH AMANDEEP |
| 3. | 26220010003 | ANMOL KATOCH |
| 4. | 26220010004 | ANSHUL SHARMA |
| 5. | 26220010005 | DIKSHIT SHARMA |
| 6. | 26220010006 | NIKHIL KUMAR |
| 7. | 26220010007 | SHUBHAM VERMA |
| 8. | 26220010008 | MANAV DUA |

Radisson BLU

Anmol Katoch
2720

FEEL THE DIFFERENCE

Date: 06th June 2024

**To whomsoever it may concern**

This is to certify that Mr. Anmol Katoch student of HP University has undergone his Industrial training with us in all Four Major Departments from 18th January 2024 to 05th June 2024 at Radisson Blu Resort, Kumbhalgarh.

During the tenure he was found to be an extremely diligent and conscientious worker.

We wish him all the best in his future endeavours.

**For the Radisson Blu Resort, Kumbhalgarh**

**Ameya Mandke**
**Learning & Development Manager.**
**Radisson Blu Resort Kumbhalgarh.**

**Radisson Blu Resort, Kumbhalgarh**
Khasra No. 516/212 & 549/212, Beer Ki Bhagal, Kelwara, Kumbhalgarh, Maharana Pratap Marg, Rajsamand District, 313325, Rajasthan, India
T: +91 02954 244444
info.kumbhalgarh@radissonblu.com
radissonhotels.com/blu

ANSHUL SHARMA

Radisson BLU

FEEL THE DIFFERENCE

Date: 06th June 2024

**To whomsoever it may concern**

This is to certify that Mr. Anshul Sharma student of HP University has undergone his Industrial training with us in all Four Major Departments from 18th January 2024 to 05th June 2024 at Radisson Blu Resort, Kumbhalgarh.

During the tenure he was found to be an extremely diligent and conscientious worker.

We wish him all the best in his future endeavours.

**For the Radisson Blu Resort, Kumbhalgarh**

**Ameya Mandke**
**Learning & Development Manager.**
**Radisson Blu Resort Kumbhalgarh.**

**Radisson Blu Resort, Kumbhalgarh**
Khasra No. 516/212 & 549/212, Beer Ki Bhagal, Kelwara, Kumbhalgarh, Maharana Pratap Marg, Rajsamand District, 313325, Rajasthan, India
T: +91 02954 244444
info.kumbhalgarh@radissonblu.com
radissonhotels.com/blu

Printed on Eco-labelled paper.

Dikshit Sharma

Radisson BLU

FEEL THE DIFFERENCE

Date: 06th June 2024

**To whomsoever it may concern**

This is to certify that Mr. Dikshit Sharma student of HP University has undergone his Industrial training with us in all Four Major Departments from 18th January 2024 to 05th June 2024 at Radisson Blu Resort, Kumbhalgarh.

During the tenure he was found to be an extremely diligent and conscientious worker.

We wish him all the best in his future endeavours.

**For the Radisson Blu Resort, Kumbhalgarh**

**Ameya Mandke**
**Learning & Development Manager.**
**Radisson Blu Resort Kumbhalgarh.**

**Radisson Blu Resort, Kumbhalgarh**
Khasra No. 516/212 & 549/212, Beer Ki Bhagal, Kelwara, Kumbhalgarh, Maharana Pratap Marg, Rajsamand District, 313325, Rajasthan, India
T: +91 02954 244444
info.kumbhalgarh@radissonblu.com
radissonhotels.com/biu

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Shubham Verma
2725

Radisson BLU

FEEL THE DIFFERENCE

Date: 06th June 2024

**To whomsoever it may concern**

This is to certify that Mr. Shubham Verma student of HP University has undergone his Industrial training with us in all Four Major Departments from 18th January 2024 to 05th June 2024 at Radisson Blu Resort, Kumbhalgarh.

During the tenure he was found to be an extremely diligent and conscientious worker.

We wish him all the best in his future endeavours.

**For the Radisson Blu Resort, Kumbhalgarh**

**Ameya Mandke**
**Learning & Development Manager.**
**Radisson Blu Resort Kumbhalgarh.**

Radisson Blu Resort, Kumbhalgarh
Khasra No. 516/212 & 549/212, Beer Ki Bhagal, Kelwara, Kumbhalgarh, Maharana Pratap Marg, Rajsamand District, 313325, Rajasthan, India
T: +91 02954 244444
info.kumbhalgarh@radissonblu.com

Radisson BLU

FEEL THE DIFFERENCE

Date: 06th June 2024

**To whomsoever it may concern**

This is to certify that Mr. Aditya Kashyap student of HP University has undergone his Industrial training with us in all Four Major Departments from 18th January 2024 to 05th June 2024 at Radisson Blu Resort, Kumbhalgarh.

During the tenure he was found to be an extremely diligent and conscientious worker.

We wish him all the best in his future endeavours.

**For the Radisson Blu Resort, Kumbhalgarh**

**Ameya Mandke**
**Learning & Development Manager.**
**Radisson Blu Resort Kumbhalgarh.**

**Radisson Blu Resort, Kumbhalgarh**
Khasra No. 516/212 & 549/212, Beer Ki Bhagal, Kelwara, Kumbhalgarh, Maharana Pratap Marg, Rajsamand District, 313325, Rajasthan, India
T: +91 02954 244444
info.kumbhalgarh@radissonblu.com
radissonhotels.com/blu

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Himachal Pradesh University
(NAAC Accredited 'A' Grade University)
Department of Education

No. 2022/HPU/Edu

Dated: 22-08-2022

**M.Ed. Students**

| Class R.No. | Name of candidate | Father's Name | Name of supervisor |
|---|---|---|---|
| 1901 | Kritika | Chhatter Singh Machhan | Dr. Ajay kumar attri |
| 1902 | Priyanka | Gautam Sharma | Dr. Chaman lal |
| 1903 | Anita Thakur | Karam Singh | Dr. Yudhveer |
| 1904 | Ruchi | Surender Singh | Dr. Kanika Handa |
| 1905 | Vivek Sharma | Dulla Ram | Dr. Rakesh Kumar |
| 1906 | Manmohan | Diwakar Dutt Sharma | Dr. Ajay kumar attri |
| 1909 | Shweta Sharma | Hans Raj Sharma | Dr. Chaman lal |
| 1910 | Annu | Jiya Lal | Dr. Yudhveer |
| 1911 | Pooja Sharma | Ram Krishan | Dr. Kanika Handa |
| 1912 | Puneet Thakur | Shiv Ram | Dr. Rakesh Kumar |
| 1913 | Karishma Devi | Kalyan Singh | Dr. Ajay kumar attri |
| 1915 | Ankush Patial | Anil Kumar Patial | Dr. Chaman lal |
| 1916 | Sahil | Virender Kumar | Dr. Yudhveer |
| 1917 | Shilpa Pathania | Raghubir Singh | Dr. Kanika Handa |
| 1918 | Sheetal Kishore | Hari Krishan | Dr. Rakesh Kumar |
| 1919 | Suman Kumari | Manohar Lal | Dr. Ajay kumar attri |
| 1920 | Jyotsana | Tirth Ram | Dr. Chaman lal |
| 1921 | Anup sharma | Chander Lal | Dr. Yudhveer |
| 1922 | Priya Devi | Satish kumar | Dr. Kanika Handa |
| 1923 | Jagrity Sharma | Ramesh Sharma | Dr. Rakesh Kumar |
| 1924 | Dalip Singh | Karam Dass | Dr. Ajay kumar attri |
| 1925 | Shivani Thakur | Dev Raj | Dr. Chaman lal |
| 1926 | Santosh Kumari | Pratap Chand | Dr. Yudhveer |
| 1927 | Shivali Sharma | Mohan Lal Sharma | Dr. Kanika Handa |
| 1928 | Sher Singh | Khim Singh | Dr. Rakesh Kumar |
| 1930 | Aman Kumar | Netar Singh | Dr. Ajay kumar attri |

| | | | |
|---|---|---|---|
| 1931 | Manju Sharma | Deep Ram Sharma | Dr. Chaman lal |
| 1932 | Amandeep | Sant ram | Dr. Yudhveer |
| 1933 | Vivek Thakur | Vijay Thakur | Dr. Kanika Handa |
| 1934 | Kanchan Sharma | Shashi Pal | Dr. Rakesh Kumar |
| 1935 | Vikram Singh | Prem Chand | Dr. Ajay kumar attri |
| 1936 | Harsheela Devi | Jagat Ram | Dr. Chaman lal |
| 1937 | Manisha | Ramesh Kumar | Dr. Yudhveer |
| 1938 | Neha Jassal | Ravinder Kumar | Dr. Kanika Handa |
| 1939 | Ajay Sanehi | Paras Ram | Dr. Rakesh Kumar |
| 1940 | Nidhi | Pawan Kumar | Dr. Ajay kumar attri |
| 1941 | Deeksha Kumari | Badri Nath | Dr. Chaman lal |
| 1942 | Pooja Negi | Bhagwan Singh | Dr. Yudhveer |
| 1943 | Kaushalya | Mahatam Chand | Dr. Kanika Handa |
| 1944 | Sheetal Negi | Yugal Kishore | Dr. Rakesh Kumar |
| 1945 | Meera Devi | Lekh Ram | Dr. Ajay kumar attri |
| 1946 | Vinod Kumar | Tara Dutt | Dr. Chaman lal |
| 1947 | Kusha Devi | Puran Chand | Dr. Yudhveer |
| 1948 | Raj Kumari Thakur | Lal Singh | Dr. Kanika Handa |
| 1949 | Nitika Pal | Het Ram | Dr. Rakesh Kumar |
| 1950 | Ravina Tomar | Dalip SinghTomar | Dr. Chaman lal |

Chairman

Chairman
Department of Education
H.P. University, Shimla-05

Copy to :

Himachal Pradesh University
(NAAC Accredited 'A' Grade University)
Department of Education

**M.A. Education 3rd semester Allotment of Supervisor for the Session 2022-24.**

| Sr. No | Name | Father Name | Class Roll No | Allotment of Supervisor |
|---|---|---|---|---|
| 1 | Shivani | Sh. Subhash Kumar | 1701 | Prof. Ajay Kumar Attri |
| 2 | Swati Verma | Sh. Rajeev | 1702 | Dr. Chaman lal Banga |
| 3 | Pallvi | Sh. Desh Raj | 1703 | Dr. Yudhveer |
| 4 | Amisha | Sh. Birma Chand | 1704 | Dr. kanika Handa |
| 5 | Ruchi Devi | Sh. Brij Lal | 1705 | Dr. Rakesh Kumar |
| 6 | Diksha Sharma | Sh. Ramesh Sharma | 1706 | Prof. Ajay Kumar Attri |
| 7 | Nitika | Sh. Satish Kumar | 1707 | Dr. Chaman lal Banga |
| 8 | Kriti Thakur | Sh. Braham Chand | 1708 | Dr. Yudhveer |
| 9 | Jyoti Sharma | Sh. Ved Prakash Sharma | 1710 | Dr. kanika Handa |
| 10 | Munish Kumar | Sh. Sanjay Kumar | 1711 | Dr. Rakesh Kumar |
| 11 | Rachna Devi | Sh. Amin Chand | 1712 | Prof. Ajay Kumar Attri |
| 12 | Aman Kumar | Sh. Joginder Singh | 1713 | Dr. Chaman lal Banga |
| 13 | Nidhi Thakur | Sh. Suresh Thakur | 1714 | Dr. Yudhveer |
| 14 | Anita | Sh. Khem Singh | 1717 | Dr. kanika Handa |
| 15 | Ankita Thakur | Sh. Hem Raj | 1718 | Dr. Rakesh Kumar |

Chairman

Chairman
Department of Education
H.P. University, Shimla-05

প্রত্যয়ণপত্র / সমাবর্তন পত্র

শ্রীমান/শ্রীমতী,

তোমাকে এই মর্মে জানানো যাচ্ছে যে, তুমি [illegible] বিশ্ববিদ্যালয়ের
[illegible] বিভাগে [illegible] বর্ষ [illegible] সাল পর্যন্ত
নিয়মিত ছাত্র/ছাত্রী হিসাবে অধ্যয়ন করেছ। তোমার [illegible] সাল
[illegible] তারিখে অনুষ্ঠিত সমাবর্তন অনুষ্ঠানে তোমাকে [illegible]
ডিগ্রি প্রদান করা হবে। তোমার উজ্জ্বল ভবিষ্যৎ কামনা করি।

[illegible]
রেজিস্ট্রার
[illegible] বিশ্ববিদ্যালয়

তারিখ: [illegible]
স্থান: [illegible]

Samsung Triple Camera
Shot with my Galaxy F41

# Winter internship certificate

Date 20/02/2024

This is to clarify that Bhumika Chauhan D/O B.S Chauhan, student of Himachal Pradesh University Institute of legal studies Ava lodge Chaura Maidan. Shimla Himachal Pradesh , has successfully completed a winter internship in the department of revenue for two weeks under the guidance of Patwari Totu Shimla .

During the period of her internship with us she had been exposed to different process and was found punctual and hard working .

We wish her success in her life and career.

Naib Tehsildar
Tehsil Shimla (Rural)
District Shimla

Tehsildar
Distt. Shimla

Himachal Pradesh

# Himachal Pradesh University

(NAAC Accredited 'A' Grade University)

## University Institute of Legal Studies

Ava- Lodge, Shimla-171004.

No: 01-2023/UILS/Dec/WI-

Date: 29 -12-2023

### PROFORMA FOR WINTER INTERNSHIP AND PLACEMENT PROGRAMME FOR VIII[th] SEMESTER (B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)

Name of the Student: Bhumika Chauhan

Permanent Address: Jaswal Niwas Kaehi Ghatti, Shimla - 171010

Place of Internship: Patwari Office Totu, Shimla

Telephone No.: 98166 - 10167

Name of the Revenue Officer: Mr. Girja Nand

Address of the Revenue Officer: Patwari Office Totu, Shimla, H.P. 171011

Mobile No.: 98166 - 10167

I agree to keep the aforesaid student for the purpose of Training as mentioned in the instructions.

Signature and Seal of the Revenue Officer

Naib Tehsildar
Tehsil Shimla (Rural)
District Shimla

Signature of Student: Bhumika

Class Roll No.: 20074

Examination Roll No.: 8201430072

NOTE.

The students are directed to return the filled form along with report to Dr. (Ms.) ... Teacher In-charge Clinical Legal Practical Training on or before ... copy of certificate issued by ...

# TO WHOM IT MAY CONCERN

Date: 23/02/2024

It is certified that Abhinav s/o Sh. Bishan Dass , student of BALL.B (HONS) 8th Semester of Himachal Pradesh University Institute of legal studies Ava lodge Chaura Maidan, Shimla Himachal Pradesh has successfully completed winter internship in the department of revenue for 2 weeks under the guidance of Patwari Totu.

During the period of his internship program with us he has been exposed to different process and was found punctual and diligent.

Tehsildar
Distt. Shimla
Himachal Pradesh

Naib Tehsildar
Tehsil Shimla (Rural)
District Shimla

# CERTIFICATE OF REVENUE INTERNSHIP

This is to certify that Ms. Prachi Sharma 8th Semester student of Law from HPUILS Ava-lodge Shimla H.P She has attended my office as an intern from 8th Jan 2024 to 22nd Jan 2024.

She remained present in my office and also attended the office during this period assisting me in my office work regularly in the Tehsil Office at Solan. During her period of internship she has keenly and diligently observed the office proceedings in my cases and also my working in my office.

She has also noted down the daily proceedings of the cases dealt by me from my daily diary.I wish her all success in her life.

No:Teh-SML-Rural(OK)/2024/- 95-98

## TO WHO SO EVER IT MAY CONCERN

This is to certify that **Ms Himani Augusty D/o Kamlesh Kumar** R/o Krishan Bhawan below Mela Ram Building 66 kv Power House , Totu Shimla -171011 bearing Roll No 20015 studying in VIII th Semester of B.A. LL.B (Hon's) Five Year Integrated Course at University Institute of Legal Studies Ava-Lodge, Shimla-171004, Himachal Pradesh University has undergone two weeks Winter Internship Training in Revenue related matters starting w.e.f **10/01/2024 to 24/01/2024** as per the proforma for Winter Internship and Placement Program issued by the office of Director, University Institute of Legal Studies, Ava-Lodge Campus, Shimla -171004 vide letter No 01-2023 /UILS/Dec/WI- dated 29/12/2023. During the aforesaid period her performance & conduct was satisfactory.

**Place: SHIMLA**
**Date: 24/01/2024**

**Tehsildar-cum-Executive Magistrate**
**Tehsil Shimla (Rural)**
तहसीलदार (ग्रा.) शिमला
जि. शिमला (हि.प्र.)

# Jawalamukhi Police Staion

## Certificate of Internship

This is to Certify that **Ms Akanksha Sharma D/o Rajeev Kumar** Studying Fourth Semester **B.A. LLB** course at HPUILS avalodge Shimla, has attended at Police station (**Jawalamukhi**). An intern for the period from **16-01-2024 to 30-01-2024** under my giudence which she completed sucessfully.

During the Internship Period we found her sincere and Hardworking.

**Police Station**
**(Jawalamukhi)**
**Date:- 30-01-2024**

**Signature & Stamp**

SHO
P.S. Jawalamukhi
Distt. Kangra (H.P.)
30/1/2024

कार्यालय पुलिस अधीक्षक,
जिला चम्बा, हिमाचल प्रदेश।

Office of the Superintendent of Police
District Chamba, Himachal Pradesh

Tel. Number: - 01899-222242
Email ID: - sp-cha-hp@nic.in

# To whom it may concern

Sh. Ayush student of 4th Semester B.A. LL. B (Hons) Course University Institute of Legal Studies Av-Lodge Campus, Shimla has performed winter internship program as per the assignment for a period of two weeks. During the internship program, he observed the process and working of police Station Sadar and Women Police Station of this District.

**(Abhishek Yadav) IPS**
Superintendent of Police,
District Chamba, H.P.

Superintendent of Police
District Chamba (H.P.)

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Police Station Darlaghat (H.P.)
No ... Date ...

Name of the Student: Jagriti Thakur

Permanent Address: Vill Passal Jari P.O. Dhundan Teh. Arki Distt Solan (H.P.)

Place of Internship: PS Darlaghat

Telephone No.: 01796 - 248340

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Moti Singh Thakur (Inch/SHO) Police Station Darlaghat

Mobile No.: 8191-22855

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge
Station House Officer
Police Station Darlaghat
Teh. Arki, Distt. Solan (H.P)

Signature of Student: Jagriti
Class Roll No.: 22025
Examination Roll No.:

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI- -** **Date: 20 -12-2023**

To

SHO, SH. Surinder
Thakur, Thana
Dharamshala (Kangra) H.P

**Subject:** **Request for Internship during winter vacations (Winter School).**

Sir/Madam,

As per the new curriculum of B.A.LL.B (Hons.) Five Year Integrated Course, the students of 4th **Semester** are required to observe the working/functioning of the Police Stations/Police Post as part of Winter Internship during Winter Vacations for a minimum period of **Two Weeks.** During this period, the student is required to observe the processes and working of the Police Station/ Police Post. They will maintain the Record and enter the Various Steps being observed during their Internship period. Detailed instructions to this effect are attached with this Performa. Accordingly, student will be in touch with your Office and will be subject to your Control and guidance during these ten days period. In case you accept him/her as intern kindly sign the form attached. **At the end of the Winter Clinical Internship Programme you are kindly requested to issue a Certificate to this effect** and same will be submitted by the student along with the practical file to the Teacher In-charge.

Your co-operation in this regard shall be highly appreciated.

With Warm Regards,

Yours Sincerely,

**Prof. (Dr.) Shiv Kumar Dogra**
**Director,**
**University Institute of Legal Studies,**
**Ava-Lodge Campus, Shimla-171004**

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Gunjan Chalotra

Permanent Address: Vill. Shekhpur post office Kandhori Teh Indora Distt Kangra

Place of Internship: Nangal Bhur

Telephone No.:

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Miss Rajni Bala, Police station Nangal bhur Distt. Pathankot (PB)

Mobile No.:

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Rajni Bala SP
SHO
P.S. Nangal Bhur

Signature and Seal of the Officer-In-charge

Signature of Student: Gunjan
Class Roll No.: 20
Examination Roll No.: 8221430138

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Police Station Nangal Bhur , District Pathankot ( Punjab)**

Telephone - 8872033343

# *Certificate*

This is to certify that Gunjan Chalotra D/O Mr.Naresh Kumar visited the Police Station Nangal Bhur in connection with Internship during winter vacations (Winter School) of B.A.L.L.B (Hons.) Five year Integrated Course. w.e.f 18-01-2024 to 31-01-2024. During this period the student was briefed about the working of Police Station and the Lecture was delivered on registration of FIR in CCTNS, maintenance of record and other various day to day work. The behaviour of student was excellent during the above period.

We wish her all the best for her future endeavors .

Regards !

Station House Officer,
Police Station Nangal
Bhur, District Pathankot
(Punjab)

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Ayush Joshi

Permanent Address: Village Sukrala P.O Bara Teh Nadaun Distt Hamirpur HP

Place of Internship: Police station Nadaun Distt. Hamirpur.

Telephone No.: +91 8219555897.

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Inspector Babu Ram SHO PS Nadaun

Mobile No.: _____

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

S.H.O.
P.S. NADAUN
Distt. Hamirpur (H.P.)

Signature of Student: Ayush Joshi
Class Roll No.: 22012
Examination Roll No.: _____

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

PS SADAR SOLAN DT 6/02/24

"To whom it may concern"

It is certified that Miss Palak Roll No 22033 student of University Institute of legal Studies Ava-lodge Campus Chaura Maidan Shimla of low 4th Semester B.A.L.L.B hons has attended internship programme in this police Station w.e.f 8/01/24 to 22/01/24 and learnt the daily police works and take keen interest in learning and her performance during this period was appreciable. I wish her to succeed in all spheres of her life in future.

Station House Officer
Police Station Sadar
Solan Distt Solan H.P

Police Station Nalagarh
No.
Date

**RELIEVING CERTIFICATE**

It is certified that, Ms Bharti R/o ward No 04 Nalagarh Distt Solan undergoing winter clinical internship program for the BA.LLB (Hons.) course w.e.f from 16.01.2024 to 31.01.2024 in Police Station Nalagarh. She has successfully completed her internship for aforesaid period.

We wish her the best in all her future endeavors, and we hope that the skills and knowledge gained during her internship will contribute her personal or professional growth.

S.H.O.
P.S. Nalagarh
Police Distt. Baddi (H.P.)
31-01-2024

Station House Officer
Police District Baddi HP

# OFFICE OF THE STATION HOUSE OFFICER POLICE STATION DEHRA DISTT. KANGRA HP

**"To whom it may concern"**

It is certified that Miss. Diksha Dhiman Roll No. 22018 student of University institute of legal studies Ava-Lodge Campus Chaura Maidan Shimla of low 4th semester B.A.LLB hons has attended internship program in this Police Station Dehra w.e.f 29/01/2024 to 12/02/2024 and learnt the daily police works and take keen interest in learning and her performance during this period was appreciable. I wish her to succeed in all spheres of her life in future.

Station House Officer
Police Station Dehra
Distt. Kangra HP

# OFFICE OF THE STATION HOUSE OFFICER POLICE STATION SUNDER NAGAR, DISTT MANDI (HP)

## "To whom it may concern"

It is certified that **Mr. Aryan Thakur Roll No. 22010** student of university institute of legal studies Ava-Lodge Chaura Maidan Shimla of semester 4th BALLB Hons has attended internship programme in the Police Station from **21/01/2024 to 03/02/2024** and learned the daily Police work and taken keen interest in learning and his performance during this period was appreciable.

I wish him to succeed in all spheres of his life in future.

Station House Officer
Police Station SNR
Distt Mandi (HP)

S.H.O.
P.S. Sunder Nagar
Distt. Mandi (H.P.)

PS SADAR SOLAN

DT 6/02/24

"To whom it may concern"

It is certified that Miss Palak Roll Nc 22035 student of University Institute of legal Studies Ava-lodge Campus Chaura Maidan Shimla of low 4th Semester B.A.L.L.B hons has attended internship programme in this police Station w.e.f 8/01/24 to 22/01/24 and learnt the daily police works and take keen interest in learning and her performance during this period was appreciable. I wish her to succeed in all spheres of her life in future.

Station House Officer
Police Station Sadar
Solan Distt Solan H.P

**OFFICE OF THE STATION HOUSE OFFICER POLICE STATION SADAR- MANDI DISTT MANDI H.P.**

"TO WHOM IT MAY CONCERN"

IT IS CERTIFIED THAT MR. AYUSH S/O VINOD KUMAR VILL. CHADYARA P.O. GUTKAR TEHSIL SADAR DISTT.MANDI STUDENT OF BALLB HONs.3RD SEM (HONS) HAS ATTENDED INTERNSHIP PROGRAM IN THIS POLICE STATION W.E.F 08.01.2024 TO 22.01.2024 AND LEARNT THE DAILY POLICE WORKS AND TAKE KEEN INTEREST IN LEARNING AND HIS PERFORMANCE DURING THIS PERIOD WAS APPRECIATE. I WISH HIM TO SUCCESS IN ALL SPHERES OF HIS LIFE IN FUTURE

SHO
P.S SADAR
DISTT. MANDI H.P

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Roedhima Sharma

Permanent Address: Shimla, Upper kaithu
Block 5, quarter no 3
Police Station Sadar Shimla.

Place of Internship:

Telephone No.: 9816920497

Name & Address of SHO/
Officer-in-charge
of Police Station/Police Post: INSP/SHO Dharam Sain Negi
Police Station Sadar, Shimla.

Mobile No.: 88947-28014

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

STATION HOUSE OFFICER
POLICE STATION SADAR
SHIMLA-171001

Signature and Seal of the Officer-In-charge

Signature of Student: Roedhima
Class Roll No.: 22040
Examination Roll No.: 22040

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

No. 121/5A
Date 02/02/24
DISTT. KANGRA (H.P.)

CERTIFICATE FOR WINTER INTERNSHIP

SCHEME FOR IV SEMESTER

OFFICE OF THE POLICE CHOWKI INCHARGE

POLICE POST REHAN TEH NURPUR

DISTT KANGRA (HP)

"TO WHOM IT MAY CONCERN"

It is certified that MR. ISHAAN SHARMA, ROLL NO. 22022 student of HIMACHAL PRADESH UNIVERSITY INSTITUTE OF LEGAL STUDIES (HPUILS) Ava-Lodge Campus, Chaura Maidan Shimla has attended internship programme in the POLICE POST REHAN TEH NURPUR DISTT KANGRA i.e. 19/01/2024 to 02/02/2024 and learnt the daily police works and his performance during this peiod was appreciable . I wish him to succeed in all spheres of his life in future .

INCHARGE,
POLICE POST REHAN,
POLICE STATION NURPUR.
DATED 02/02/2024.

# To Whom It May Concern

It is to certify that Miss. **Bhavya**, Roll number **22016**,student of**4th Semester**University Institute Of Legal Studies (UILS) Shimla of B.A.L.L.B.( Law ) has attended 14 days internship program in this Police Station and has learnt daily police works. She has taken keen interest in learning and her performance during this period was appreciable. I wish her success in all spheres of life.

Police Station Nangal
Date

**Station House Officer,**
**Police Station,**
**Nangal, District**
**Rupnagar, Punjab.**

Police Station Nangal * Distt. Rupnagar *

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student AYUSH S/O Vinod Kumar.

Permanent Address VILLAGE CHADYARA PO GUTKAR
NEAR VISCO RESORT TEHSIL SADAR DISTT MANDI (HP) 175001

Place of Internship POLICE STATION SADAR MANDI (H.P)

Telephone No.

Name & Address of SHO/
Officer-in-charge
of Police Station/Police Post Insp/SHO Sakini Kapoor

Mobile No. 9317221009

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

S.H.O
P.S. Sadar
Mandi (H.P.)

Signature and Seal of the Officer-In-charge

Signature of Student
Class Roll No. 22023
Examination Roll No. 822143 0026

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**OFFICE OF THE STATION HOUSE OFFICER POLICE STATION SADAR- MANDI DISTT MANDI H.P.**

"TO WHOM IT MAY CONCERN"

IT IS CERTIFIED THAT ISHANI GAUTAM D/O ASHOK GAUTAM VILL. & P.O. SALLAPER TEHSIL SUNDER NAGAR DISTT.MANDI H.P.STUDENT OF BALLB HONs.3RD SEM (HONS) HAS ATTENDED INTERNSHIP PROGRAM IN THIS POLICE STATION W.E.F 08.01.2024 TO 22.01.2024 AND LEARNT THE DAILY POLICE WORKS AND TAKE KEEN INTEREST IN LEARNING AND HER PERFORMANCE DURING THIS PERIOD WAS APPRECIATE. I WISH HER TO SUCCESS IN ALL SPHERES OF HER LIFE IN FUTURE.

SHO
P.S SADAR
DISTT. MANDI H.P

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Muskan Pakla

Permanent Address: Village Harbala P.O Darkali, Tehsil Rampur, Shimla (HP)

Place of Internship: Police Station Rampur

Telephone No.: 01782-233010, Mob. No. 88947-28022

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: ASI | SHO Lal Chand. Police Station Rampur Dis#- Shimla. H.P.

Mobile No: 1.- 88947-28022

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Station House Officer
Police Station Rampur Bal
Distt. Shimla (H.P.)

Signature and Seal of the Officer-In-charge

Signature of Student: Pakla
Class Roll No.: 22028
Examination Roll No.: 822143055

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

## To whom it may concerned

It is to certify that, Akarshit Sharma student of forth semester ( B.A.L.L.B HONS.) of Himachal Pradesh University Institute of legal studies , Avalodge, Chaura Maidan Shimla (HP), R/O House No. 1038 Housing Board Colony Ward No. 03 ,Kangra Pin. 176001 has completed the winter internship for forth semester( B.A.L.L.B HONS.) w.e.f 09.01.2024 to 29.01.2024.

In due course of internship he had been exposed to different processes as prescribed in the instruction manual of the winter internship programme and has learned the working of police station as prescribed.

Station House Officer
Police Station Kangra
Distt. Kangra (HP)
Dated 29.01.2024

**Himachal Pradesh University**
(NAAC Accredited "A" Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: AKSHITA SHARMA

Permanent Address: Vill, Samlera . P.O, Jassana . Teh, Bangana . Distt, UNA (H.P)

Place of Internship: Police Station Bangana.

Telephone No.: 01975-262043

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Inspector Anil Kumar P.S Bangana

Mobile No.: 70189-95908

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

P.S Bangana

Signature and Seal of the Officer-In-charge

Signature of Student: Akshita
Class Roll No.: 22004
Examination Roll No.: 822143007

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**POLICE STATION TIUNI, (DEHRADUN), INDIA**

"To whom it may concern"

It is certified that Pratibha Pandey Roll No – 22038 Student of University Institute Of Legal Studies, Ava lodge, Chaura Maidan (Shimla) BALLB Hons 4th Semester has attended the internship programme in this police station from 14th January 2024 to 2 February 2024.

She has learnt the daily police work as per instructions she has taken keen interest in learning. Her performance during this period was appreciable I wish her to succeed in all spheres of her life in future.

17/01/24

Officer House Station

थानाध्यक्ष

Police Station Tiuni (Uttarakhand)

जनपद-- देहरादून

Signature/Stamp .....

**SCHEME FOR IV SEMESTER**

OFFICE OF THE STATION HOUSE OFFICER (SHO)

POLICE STATION DAMTAL DISTT KANGRA (H.P)

**Police Distt. Nurpur**

POLICE STATION DAMTAL ★ DISTT. KANGRA (H.P.) ★

*"To whom it May Concern"*

It is certified that **MR. Arpit Thakur, Roll No. 22009** student of **Himachal Pradesh University institute of legal studies (HPUILS)** Ava-Lodge Campus, Chaura Maidan Shimla has attended internship programme in this **Police Station Damtal Distt. : - Kanga (Police District:- NURPUR)** i.e. 18/01/2024 to 01/02/2024 and learnt the daily police works and take keen interest in learning and his performance during this period was appreciable. I wish him to succeed in all spheres of his life in future.

Station House Officer(SHO)

S.H.O
Police Station Damtal
Distt. Kangra (H.P.)

Police Station Damtal,
Distt. Kanga {Police Distt. Nurpur}
DTD. 01/02/2024

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Mokshi Gupta

Permanent Address: Arki, Ward no. 4, distt Solan
Near Boy School Arki

Place of Internship: Arki Police Station

Telephone No. 8219253040

Name & Address of SHO/
Officer-in-charge
of Police Station/Police Post: SI Gopal Singh
S.H.O PS Arki Distt Solan (HP)

Mobile No. 85806-03570

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Station House Officer
Police Station Arki
Distt. Solan-H.P.

Signature and Seal of Station House Officer-In-charge

Signature of Student: Mokshi Gupta
Class Roll No. 22026
Examination Roll No.

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

Sr. No.....
Dist. Shimla (H.P.)

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: NIHARIKA KASHYAP

Permanent Address: JAI INDIRA COTTAGE, BELOW KRISHNA DARBA, PO: MALAYANA, MEHALI, SHIMLA 171006.

Place of Internship: BOILEAUGANJ POLICE STATION, SHIMLA

Telephone No.: 9418630300

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Insp. Deepak Thakur S.H.O. Police Station West Shimla

Mobile No.: 85947-28013

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Station House Officer
Police Station Boileauganj
Distt. Shimla (H.P.)
Signature and Seal of the Officer-In-charge

Signature of Student: @kashyap
Class Roll No.: 22030
Examination Roll No.:

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Monika

Permanent Address: D/o Sh. Sher Singh Village Machkehar
Po Ahju Tehsil Joginderngar Distt. Mandi
Himachal Pradesh

Place of Internship: P.S. Joginder nagar Distt. Mandi (H.P.)

Telephone No: 9317221010

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Insp. Nirmal Singh
SHO P.S. Joginderngar Distt. Mandi (H.P.)

Mobile No. 9317221010, 98161-93276

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

03/01/2024
Police Station
Joginder Nagar

Signature and Seal of the Officer In-charge

Signature of Student: Monika
Class Roll No. 22027
Examination Roll No. 8221430053

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: PAHULPREET KAUR

Permanent Address: VPO- GHOGRA
TEHSIL- DASUYA
DISTT- HOSHIARPUR, PUNJAB

Place of Internship: POLICE STATION DASUYA

Telephone No.: 01883-285023

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Sub Inspector Harpreet Singh. Station House Officer
Police Station Dasuya

Mobile No.: 79865-14205

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and seal of the Officer-In-charge

S.H.O. P.S. DASUYA DT.

Signature of Student: Pahulpreet Kaur
Class Roll No.: 22032
Examination Roll No.: 8221430064

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

Police Station Sadar
Cart Road Shimla
District Shimla
Himachal Pradesh
PIN 171001

Dharam Sain Negi
Inspector/ SHO
PS Sadar, Distt. Shimla (HP)
Ph. No. 0177-2652860
police.shimla-hp@nic.in

No. 336/SA Dated 1/02/24

## Certificate of Internship

This is to certify that Ms. Anmol Chauhan D/O Sh. Yogesh Chauhan R/o Satkarm niwas 1st floor Junga Road Mehli Shimla A/p student of Bachelor of Law, Himachal Pradesh University Institute of Legal Studies, Ava Lodge, Chaura Maidan, Shimla (HP) has successfully completed two weeks internship programme Fourth Semester under my guidance.

During this period of internship she was taught about the working of police station i.e. about strength at PS, Police posts working under PS like PAR & PP L/Bazar. She was also given brief knowledge about registration of FIR, GD entries in CCTNS software. She has also obtained knowledge about investigation process and various registers of this PS i.e. Register No. 1 (FIR), 2 (Daily Diary), 19 (Malkhana Register), 21 (Road Certificate) etc. and their maintenance thereof. Besides, she was also told about different duties made by Police i.e. Patrolling, Law & Order, PSO duty.

I have found her to be self starter, duty bound and hard working. She was punctual and has performed excellently at this PS with well behavior. I wish her for bright future.

STATION HOUSE OFFICER
POLICE STATION SADAR
SHIMLA-171001

Station House Officer,
Police Station Sadar,
District Shimla (HP)
Date 01.02.2024.

Police Station Boileauganj
Sr. No. .....
Date .....
Distt. Shimla (H.P.)

**TO WHOM IT MAY CONCERN**

This is to certify that **Mr.** Ayush Negi has successfully completed 02 weeks of an internship Programme from 18.01.2023 to 31.01.2023 in our Police Station. He was highly motivated and hardworking.

We wish him great Success in his future endeavours.

Sincerely

MHC PS West Shimla,
Distt Shimla, HP

MHC
Police Station Boileauganj
Shimla-171005 (H.P.)

Police Thana Boileauganj

Shimla (HP)

Date ; 20/1/24

**Certificate of internship**

It is certified that Niharika Kashyap DO/ Sh . Sanjay Kashyap R/O. Jai Indira cottage Below Krishna Dabha Vilage : village Shakrala PO: Malayana , Hp at present student of department of law , HP university, Indian institute of legal studies , Shimla HP under class Roll no. 22030 has attended in my office as well as Boileauganj police Thana Shimla HP regularly from 5/1/24 to 20/1/24 under my supervision. She has done all the documentation work given by the department of law Hp university, institute of legal studies. She bears a good character

SHO/ Office incharge of police Station/ police post

**OFFICE OF THE STATION HOUSE OFFICER POLICE STATION**
**RAJGARH DISTT. SIRMOUR (H.P)**

**"To whom it may concern"**

It is certified that Miss. Garima Thakur Roll No. 22019 student of University institute of legal studies Ava-Lodge Campus Chaura Maidan Shimla of law 4th semester B.A.LLB(hons) has attended internship in this Police Station w.e.f 24.01.2024 to 10.02.2024 and learnt the daily police works and take keen interest in learning and her performance during this period was appreciable. I wish her to succeed in all spheres of her life in future.

S.H.O

Station House Officer
Police Station Rajgarh
Distt. Sirmour (H.P)

**OFFICE OF THE STATION HOUSE OFFICER POLICE STATION**
**RAJGARH DISTT. SIRMOUR (H.P)**

**"To whom it may concern"**

It is certified that Miss. Anchal Thakur Roll No. 22006 student of University institute of legal studies Ava-Lodge Campus Chaura Maidan Shimla of law 4th semester B.A.LLB(hons) has attended internship in this Police Station w.e.f 24.01.2024 to 10.02.2024 and learnt the daily police works and take keen interest in learning and her performance during this period was appreciable. I wish her to succeed in all spheres of her life in future.

Station House Officer
Police Station Rajgarh
Distt. Sirmour (H.P)

## Certificate of internship

It is certified that Priya Kango D/O Sh. Surjeet Kumar R/O W.No 05 H.No 335 Near Radha Krishna Medical Collage Hamirpur has been successfully completed her internship from 01.02.2024 to 15.02.2024 at Police Station Sadar Hamirpur (H.P)

As a part of internship programme she was given an overviews of the various criminal activities in the area ND&PS act cases and other cases. She was told about FIR registered (CCTNS mode), about the various police personnel their designation and work chart the process of investigation and other police procedures.

Police Station Hamirpur
Distt. Hamirpur (H.P.)

INSP/SHO Harish Guleria
PS Sadar Hamirpur
District Hamirpur h.p

OFFICE OF THE STATION HOUSE OFFICER POLICE STATION
SADAR -MANDI,DISTRICT MANDI H.P

"To whom it may concern"

It is certified that Mr Himanshu Roll No 22021 student of University institute of legal studies Ava-Lodge Campus Chaura Maidan Shimla of law 4th semester BALLB (HONS)has attended internship program in this Police Station w.e.f 22 Jan 2024 to 05 Feb 2024 and learnt the daily police works and take keen interest in learning and her performance during this period was appreciable. I wish him to success in all spheres of her life in future.

Station House Officer
Police Station Sadar
District Mandi(H.P)

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: VANSH REAKTA

Permanent Address: KELTI, SHIMLA, REAKTA NIWAS
TEH- SHIMLA

Place of Internship: POLICE POST LAKKAR BAZAR.

Telephone No.: 8580659550

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Police Post Lakkar
BAZAR SHIMLA H.P

Mobile No.: 9816249027

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

OFFICER INCHARGE
POLICE POST
LAKKAR BAZAR SHIMLA

Signature of Student
Class Roll No. 22037
Examination Roll No. 22037

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- **Date: 20 -12-2023**

To

SI/SHO - Police Station
Rajgarh
Mr. Ravinder Lal.

**Subject: Request for Internship during winter vacations (Winter School).**

Sir/Madam,

As per the new curriculum of B.A.LL.B (Hons.) Five Year Integrated Course, the students of **4th Semester** are required to observe the working/functioning of the Police Stations/Police Post as part of Winter Internship during Winter Vacations for a minimum period of **Two Weeks.** During this period, the student is required to observe the processes and working of the Police Station/ Police Post. They will maintain the Record and enter the Various Steps being observed during their Internship period. Detailed instructions to this effect are attached with this Performa. Accordingly, student will be in touch with your Office and will be subject to your Control and guidance during these ten days period. In case you accept him/her as intern kindly sign the form attached. **At the end of the Winter Clinical Internship Programme you are kindly requested to issue a Certificate to this effect** and same will be submitted by the student along with the practical file to the Teacher In-charge.

Your co-operation in this regard shall be highly appreciated.

With Warm Regards,

Yours Sincerely,

**Prof. (Dr.) Shiv Kumar Dogra**
**Director,**
**University Institute of Legal Studies,**
**Ava-Lodge Campus, Shimla-171004**
**Phone No: 0177-2651586**

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Nikhil Thakur

Permanent Address: Vill Zehra Po Shawad Tehsil Anni Distt Kullu

Place of Internship: P.S Sadar Kullu.

Telephone No.: 9857900654

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: SI Bhoop Singh PS Kullu.

Mobile No.: 70182-36172

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

Signature of Student:
Class Roll No.: 22031
Examination Roll No.: 822143062

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Deepak Kumar

Permanent Address: V.P.O Manlogkalan, Teh. Ramshehar Distt. Solan Himachal Pradesh

Place of Internship: Police Station Sairy, Distt Solan Himachal Pradesh

Telephone No. 01792 - 288042

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Station House Officer Police Station Sairy
Balg. Ram Thakur
SI/SHO P.S Sairy. Distt. Solan

Mobile No. 94180-60519

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge
Station House Officer
Police Station Sairy

Signature of Student: Deepak
Class Roll No. 22017
Examination Roll No. 822143 0032

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- **Date: 20 -12-2023**

To

The

Station House

Officer Sadar Mandi (HP)

**Subject:** **Request for Internship during winter vacations (Winter School).**

Sir Madam,

As per the new curriculum of B.A.LL.B (Hons.) Five Year Integrated Course, the students of **4th Semester** are required to observe the working/functioning of the Police tions Police Post as part of Winter Internship during Winter Vacations for a minimum perio of **Two Weeks**. During this period, the student is required to observe the processes and working of the Police Station/ Police Post. They will maintain the Record and enter the Various Steps being observed during their Internship period. Detailed instructions to this effect are attached with this Performa. Accordingly, student will be in touch with your Office and will be subject to your Control and guidance during these ten days period. In case you accept him/her as intern kindly sign the form attached. **At the end of the Winter Clinical Internship Programme you are kindly requested to issue a Certificate to this effect** and same will be submitted by th student along with the practical file to the Teacher In-charge.

Your co-operation in this regard shall be highly appreciated.

With Warm Regards.

Yours Sincerely,

**Prof. (Dr.) Shiv Kumar Dogra**
**Directo**
**University Institute of Legal Studies,**
**Ava-Lodge Campus, Shimla-171004**

**Himachal Pradesh University**
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**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Sneha

Permanent Address: Village. Kandbari, Post- office Kamlehar Teh. palampur, District Kangra.

Place of Internship: Palampur.

Telephone No.: 78768-18652

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Insp/SHO Surinder Kumar Police station Palampur

Mobile No.: 01894-230211

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Station House Officer
Palampur, Distt. Kangra (H.P.)

Signature and Seal of the Officer-in-Charge

Signature of Student: Sneha
Class Roll No.: 02108
Examination Roll No.: 8282430698

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

(NAAC Accredited 'A' Grade University)

University Institute of Legal Studies

Ava- Lodge Campus, Shimla-171004.

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

(WINTER SCHOOL)

**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**

**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Kanishka

Permanent Address: Daughter of Surinder Singh, village Reosi, P/o Jalari, tehsil Naduan Distt Hamirpur Himachal Pradesh 177042

Place of Internship:

Telephone No: 88940-86945

Name & Address of SHO / Officer-in-charge of Police Station/Police Post: ASI Raj Kumar P.S. Nadaun

Mobile No: 94185-63050

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and seal of the Officer-In-charge

S.H.O.
P.S. NADAUN
DISTT. HAMIRPUR (H.P.)

Signature of Student: Kanishka

Class Roll No.: 22081

Examination Roll No.: 8221430045

The students are directed to return the filled along with report form & Practical file to Dr. Veena Kumari, Teacher In-charge, **on or before 25th Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com

# OFFICE OF THE STATION HOUSE OFFICER POLICE STATION AMB DISTT UNA H.P

## "To whom it may concern"

It is certified that Miss. Palak Thakur Roll No. 22094 student of University institute of legal studies Ava-Lodge Campus Chaura Maidan Shimla of low 4th semester B.A.LLB hons has attended internship programme in this Police Station w.e.f 16/01/2024 to 30/01/2024 and learnt the daily police works and take keen interest in learning and her performance during this period was appreciable. I wish her to succeed in all spheres of her life in future.

Station House Officer
Police Station Amb
Distt Una (H.P)

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

(WINTER SCHOOL)
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Nainy

Permanent Address: Village Bhial, Post office Nandp-ur Bhatoli Teh. Dehra, Distt. Kangra (H.P)

Place of Internship: Police Station Haripur Distt kangra

Telephone No.:

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Maya MASHWINDER NATH ASI/SHO P.S Haripur DISTT Kangra

Mobile No.: 94184-85364

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Maya Nath ASI/SHO
Signature and Seal of the Officer-In-charge
Station House Officer
Police Station Haripur
Distt. Kangra (H.P.)

Signature of Student: Nainy
Class Roll No.: 220879
Examination Roll No.:

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**OFFICE OF THE STATION HOUSE OFFICER WOMEN POLICE STATION CHAMBA DISTT. CHAMBA**

**"To whom it may concern"**

It is certifified tha Miss Mahima Sharma student of University institute of legal study Ava Lodge Camous Chaura Maidan Shimla of Law 4th semester BA LLB hons has attended internship program in this police station w.e.f 7.2.2024 to 17.2.2024 and learnt the daily police work and take keep interest in learning and her performance during this period was appreciable .I wish her to succeed in all spheres of her life in future.

Station House Officer
Women Police Station Chamba
Distt. Chamba (HP)

# POLICE STATION DEHRA DISTT KANGRA
# HIMACHAL PRADESH

## TO WHOMS OVER IT MAY CONCERN

This is to certify that Miss Meenakshi Dhiman D/o Sh. Ashwani Kumar r/o VPO Sunhet is studding 4th semester Roll number 22084 BALLB Hon's in University of legal studies AVA-Lodge Campus chaura Maidan Shimla 171004 has attended internship in Police station at Dehra DisttKangra. An intern for the period from 16th Jan 2024 to 30th Jan 2024. Under my guidance which they completed successfully. During the internship period we found her sincere and hardworking.

Station House Officer
Police Station Dehra
Distt Kangra HP

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

To

The Officer In-charge
Police Post Jahu
Distt. Hamirpur (H.P.)

**Subject:** **Request for Internship during winter vacations (Winter School).**

Sir/Madam,

As per the new curriculum of B.A.LL.B (Hons.) Five Year Integrated Course, the students of **4th Semester** are required to observe the working/functioning of the Police Stations/Police Post as part of Winter Internship during Winter Vacations for a minimum period of **Two Weeks.** During this period, the student is required to observe the processes and working of the Police Station/ Police Post. They will maintain the Record and enter the Various Steps being observed during their Internship period. Detailed instructions to this effect are attached with this Performa. Accordingly, student will be in touch with your Office and will be subject to your Control and guidance during these ten days period. In case you accept him/her as intern kindly sign the form attached. **At the end of the Winter Clinical Internship Programme you are kindly requested to issue a Certificate to this effect** and same will be submitted by the student along with the practical file to the Teacher In-charge.

Your co-operation in this regard shall be highly appreciated.

With Warm Regards,

Yours Sincerely,

**Prof. (Dr.) Shiv Kumar Dogra**
**Director,**
**University Institute of Legal Studies,**
**Ava-Lodge Campus, Shimla-171004**
**Phone No: 0177-2651586**

Sr. No.....
Date.....
Distt. Shimla (H.P.)

## TO WHOM IT MAY CONCERN

This is to certify that Miss Vijaya Kumari Sharma has successfully completed 02 weeks of an internship Programme from 17.01.2023 to 30.01.2023 in our Police Station. She was highly motivated and hardworking.

We wish her great Success in her future endeavours.

Sincerely,

MHC PS West Shimla,
Distt Shimla,HP

Date. 02/02/

DISTT. KANGR

CERTIFICATE FOR WINTER INTERNSHIP

SCHEME FOR IV SEMESTER

OFFICE OF THE POLICE CHOWKI INCHARGE

POLICE POST REHAN POLICE TEH NURPUR

DISTT KANGRA (HP)

"TO WHOM IT MAY CONCERN"

It is certified that MR. MADHAV SINGH PATHANIA, ROLL NO. 22082 student of HIMACHAL PRADESH UNIVERSITY INSTITUTE OF LEGAL STUDIES (HPUILS) Ava-Lodge Campus, Chaura Maidan Shimla has attended internship programme in the POLICE POST REHAN TEH NURPUR DISTT KANGRA i.e. 19/01/2024 to 02/02/2024 and learnt the daily police works and his performance during this peiod was appreciable . I wish him to succeed in all spheres of his life in future .

INCHARGE,
POLICE POST REHAN,
POLICE STATION NURPUR.
DATED 02/02/2024.

Himachal Pradesh

# CERTIFICATE

It is certified that Mr.Shubham Pandit of Himachal Pradesh University Institute of Legal Studies has done winter internship in Police Station Tissa Bhanjraru from 11 January 2024 to 27 January 2024 .

We wish him all the very best for future.

Sub Inspecter

Police Station Tissa

Tissa Bhanjraru




TO WHOME IT MAY CONCERN

It is certified that Muskan Thakur D/O Sh. Pawan Kumar R/O Vill. Patta Nathu PO Bihru Tehsil Dhatwal Distt. Hamirpur(HP) attend the INTERNSHIP SCHEME at this PS. During the Internship scheme she has been taught about Police working/Functioning, dealing with Public and also about the Strength of PS including PP and PAR's. She has also been taught about Police Investigation on spot as well as at PS Level.

Sd/-
SHO ,
PS Barsar,
Distt. Hamirpur HP.

Police Station Sadar
Cart Road Shimla
District Shimla
Himachal Pradesh
PIN 171001

Dharam Sain Negi
Inspector/ SHO
PS Sadar, Distt. Shimla (HP)
Ph. No. 0177-2652860
police.shimla-hp@nic.in

No: 449/5A

Dated: 17.02.2024

## Certificate of Internship

This is to certify that Ms.Muskan D/O Sh.Mast Ram student of Bachelor of Law, Himachal Pradesh University Institute of Legal Studies, Ava Lodge, Chaura Maidan, Shimla (HP) has successfully completed the two weeks internship programme (Fourth Semester) under my guidance.

During this period of internship she was taught about the working of Police Station i.e. about strength at PS, Police posts working under PS like PAR & PP L/Bazar. She was also given brief knowledge about registration of FIR, GD entries in CCTNS software. She has also obtained knowledge about investigation process and various registers of this PS i.e. Register No. 1 (FIR), 2 (Daily Diary), 19 (Malkhana Register), 21 (Road Certificate) etc. and their maintenance thereof. Besides, she was also told about different duties made by Police i.e. Patrolling, Law & Order, PSO duty.

I have found her to be self starter, duty bound and hard working. She was punctual and has performed excellently at this PS with well behavior. I wish her for bright future.

STATION HOUSE OFFICER
POLICE STATION SADAR
SHIMLA-171001

Station House Officer,
Police Station Sadar,
District Shimla (HP)
Dated: 17.02.2024

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Puneet Bhardwaj

Permanent Address: Vill. Gumma P.O. Tukkari Teh Churgaon Distt Shimla HP

Place of Internship: Police Station Rohru

Telephone No.: 7807539828

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Insp Praveen Rana SHO PS Rohru, Distt Shimla (HP)

Mobile No.: 88947 28026

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

S.H.O.
Police Station Rohru
Distt. Shimla H.P.

Signature of Student: P.P
Class Roll No.: 22119
Examination Roll No.: 8221430073

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

(NAAC Accredited 'A' Grade University)

**University Institute of Legal Studies**

**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**

**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**

**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Rathi

Permanent Address: VPO Gagret Teh. Ghanari Distt. Una Himachal Pardesh.

Place of Internship: Police Station Amb Distt (Una)

Telephone No.: 8629869243

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Inspector/SHO P.S. Amb inspector GAURAV BHARDWAJ P.S. Amb distt Una HP

Mobile No.: 82196 34369 7018995907 (O)

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

SHO
Police Station Amb

Signature of Student

Class Roll No.: 22098

Examination Roll No.: 8291930076

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**OFFICE OF THE STATION HOUSE OFFICER POLICE STATION AMB DISTT UNA H.P**

**"To whom it may concern"**

It is certified that Miss. Rashi Roll No. 22098 student of University institute of legal studies Ava-Lodge Campus Chaura Maidan Shimla of low 4th semester B.A.LLB hons has attended internship progtramme in this Police Station w.e.f 16/01/2024 to 30/01/2024 and learnt the daily police works and take keen interest in learning and her performance during this period was appreciable. I wish her to succeed in all spheres of her life in future.

SHO

Station House Officer

Police Station Amb

30-1-24

Distt Una (H.P)

# OFFICE OF POLICE STATION DHARAMSHALA DISTT KANGRA

## TO WHOM IT MAY CONCERN

This is to certify that Mr. Ayush Thakur a student of Institute of Legal Studies, H.P. University worked under my supervision during his internship from 02.01.2024 to 15.01 2024 .I am pleased to say that he worked hard during his internship period in preparing his report.

Mr. Ayush Thakur possesses good moral character and pleasing personality. I wish him every success in life,

Dated: 15.01.2024
Place: Dharamshala.

SHO
Police Station Dharamshala
Distt Kangra

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Ayush Thakur

Permanent Address: Education Board Colony, Sidhpur, Tehsil Dharamshala, Distt. Kangra Himachal Pradesh.

Place of Internship: Police Station Dharamshala

Telephone No.:

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Surinder Thakur SHO Police station Dharamshala 7018555240

Mobile No. 7018555240

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

Signature of Student: Ayush
Class Roll No.: 22091
Examination Roll No.: 8221430024.

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: RIDHIMA MANDHOTRA

Permanent Address: 4UT-MUNT BUILDING, NEAR H.P.U FACALITY HOUSE

Place of Internship: BALUGANJ POLICE STATION (SHIMLA)

Telephone No.: ~~2830193~~ 2830193

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: RAM SWAROOP POLICE STATION WEST, SHIMLA

Mobile No.: 8894728013

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge
Station House Officer
Police Station Boileauganj
Distt. Shimla (H.P.)

Signature of Student: Ridhima
Class Roll No.: 43
Examination Roll No.:

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25th Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
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**University Institute of Legal Studies**
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**No: 01-2023/UILS/DEC/WI-** **Date: 20-12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Utkarsh Thakur

Permanent Address: Oppo. Govt School Mihani
Chail Distt Solan H.P.

Place of Internship: Chail. Disst Solan H.P.

Telephone No.: 9650418087

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: ASI Prem Pal I/C Police Post Chail,

Mobile No.: 98169. 55084

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge
दिनांक .....

Signature of Student: Utkarsh Thakur
Class Roll No.: 22114
Examination Roll No.:

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

# Himachal Pradesh University
(NAAC Accredited 'A' Grade University)
## University Institute of Legal Studies
## Ava- Lodge Campus, Shimla-171004.

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Bhanu Pratap

Permanent Address: Vill Sibal P.O Manahsibal Teh fatehpur distt Kangra H.P 176053

Place of Internship: Police station fatehpur distt Kangra H.P.

Telephone No. 01893-26539

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: SI/SHO Rajender Kumar Police Station Fatehpur Police distt. Nurpur - (H.P)

Mobile No.

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

SHO Police Station Fatehpur Distt. Kangra

Signature and Seal of the Officer-In-charge

Signature of Student
Class Roll No.
Examination Roll No.

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email id [illegible]

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Neopur

Permanent Address: #1122/4 Amarpur Mohalla, Nahan, District Sirmaur, Nahan, Himachal Pradesh

Place of Internship: Police Station, Nahan

Telephone No.:

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Inspector SHO Ranjeet Singh, Police Station Sadar, Nahan

Mobile No.: 9418-340132

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

Signature of Student:
Class Roll No.: 22092
Examination Roll No.:

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

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**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**

**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**

**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Meetali

Permanent Address: 69/1 B, Charian Kothi, PO Mugla, Chamba

Place of Internship: Sadar Thana, Chamba

Telephone No.: 01899-222226

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Shri SH Sandeep Kumar

Mobile No.: 7876893006

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

S.H.O
P.S. Sadar Chamba
Distt. Chamba (H P)

Signature of Student: Meetali

Class Roll No.: 22086

Examination Roll No.: 8221430051

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
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**No: 01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Meenal Sharma

Permanent Address: 153/2, Pusani Mandi, Mandi, Himachal Pradesh

Place of Internship: Adarsh Nagar Police Station, Delhi

Telephone No.:

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: SI, Sunil, Police station Adarsh Nagar, Delhi

Mobile No.: 88262 8728.

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

S.I. SUNIL
Belt No. D-6100
PIS No. 16150082
P.S. ~~Subhash Place~~, Delhi
~~Adarsh Nagar~~.

P.S. ADARSH NAGAR DELHI

Signature of Student
Class Roll No.
Examination Roll No.

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

OFFICE OF POLICE POST CHAIL, POLICE STATION KANDAGHAT DISTT SOLAN

TO WHOM IT MAY CONCERN

Police Post Chail
P.S. Kandaghat
Distt. Solan (H.P.)

This is to certify that Utkarsh Thakur Son of Shri Uday Bhanu Thakur, student of University Institute of Legal Studies has successfully completed his Winter Internship Programme based on visiting Police Station/Police Post, worked under my supervision from 10 January to 25 January, 2024. During this period he was found punctual, hardworking and inquisitive.

Dated-25-1-2024

I/C PP Chail
PS Kandaghat
Distt Solan HP

प्रभारी
पुलिस चौकी चैल
दिनांक

Telephone No. +91 1905-235550,95172-21009 Email id- police.mandi-hp@nic.in

## "TO WHOM IT MAY CONCERN"

IT IS CERTIFIED THAT YAMINI THAKUR D/O LEKH RAJ THAKUR VILL.SANYARDHI P.O. TALYAHAR TEHSIL SADAR DISTT.MANDI H.P.STUDENT OF BALLB HONs.4TH SEM (HONS) HAS ATTENDED INTERNSHIP PROGRAM IN THIS POLICE STATION W.E.F 06.02.2024 TO 16.02.2024 AND LEARNT THE DAILY POLICE WORKS AND TAKE KEEN INTEREST IN LEARNING AND HER PERFORMANCE DURING THIS PERIOD WAS APPRECIATE. I WISH HER TO SUCCESS IN ALL SPHERES OF HER LIFE IN FUTURE.

SHO
P.S SADAR
DISTT. MANDI H.P

SHO P.S. Sadar Mandi (H.P.)

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI-

Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Uday Singh Chandel.

Permanent Address: Vill. Khaisian PO. Ramta Teh. Sadar Distt. Bilaspur Himachal Pradesh 174001

Place of Internship: Police station Sadar Bilaspur.

Telephone No.: 76509-50407

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Insp. Roopbl Kathanjya SHO Police station Sadar Distt. Bilaspur H.P

Mobile No.

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

Police Station
Sadar, Bilaspur (H.P.)

Signature of Student: Udaychandel.
Class Roll No.: 22112.
Examination Roll No.:

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Office of the Station House Officer,**
**Police Station Sadar Bilaspur,**
**District Bilaspur HP**
**Email- police.bilaspur-hp@nic.in**
**Contact No. 01978-222600**

**"Internship certificate"**

This is to certify that **Mr. Uday Singh Chandel** from University Institute of Legal Studies Ava-Lodge Campus, Shimla-171004, successfully completed his Winter Internship scheme for 4th semester B.A.LL.B Hons. Five year integrated course at Police Station Sadar Bilaspur District Bilaspur HP.

**Internship: - Processes and working of the Police Station, maintenance of record at Police station and working in CCTNS Core application.**

During his tenure, we found him active and competent in executing all assigned tasks and services found to be satisfactory.

We wish him great success in all of his future endeavours.

Date:- February 25, 2024

Station House Officer,
Police Station Sadar Bilaspur,
District Bilaspur HP

S.H.O.
Police Station
Sadar, Bilaspur (H.P.)

**SHO P.S. NAGROTA BAGWAN**

**DISTT.KANGRA(HP)**

---

**DATED:**

# CERTIFICATE OF INTERNSHIP

**It is certified that Sunidhi Chauhan D/O Rajesh Chauhan R/O Village Jharet jaggian ,Tehsil Deehra ,Distt. Kangra (HP) has successfully completed her internship from 11-1-2024 to 24-11-2024 at Police Station Nagrota Bagwan,Distt.Kangra(HP)**

**As a part of internship programme she was given an overview of the various criminal activities in the area ,NDPS cases, and other cases. She was told about FIR registration (CCTNS mode), about the various police personnel ,their designation and work chart, the process of investigation and other police procedures.**

S.H.O.
Nagrota Bagwan
Distt. Kangra (H.P.)

**SHO :Ramesh Thakur**

**Nagrota Bagwan Distt.Kangra**

**(HP)**

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Shruti Thakur

Permanent Address: Vill. Chalaili, P.O. Noa
Teh. Sadar, Bilaspur
Himachal Pradesh - 174001

Place of Internship: PS Sadar Distt. Bilaspur H.P

Telephone No. 76509-50407

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: SI Prakam Singh
Police Station Sadar
Distt- Bilaspur H.P

Mobile No.

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Signature and Seal of the Officer-In-charge

SHO Police Station Sadar, Bilaspur (H.P.)

Signature of Student: Shruti
Class Roll No. 22104
Examination Roll No. 8221430094

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20-12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Raghavi Sharma

Permanent Address: Village Markala Kalu, PO Bhaindladhaundi, Teh: Palampur Distt. Kangra, Himachal Pradesh

Place of Internship: Police Station Bhawarna

Telephone No.: 01894247162

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: SHO/Inspector Kehar Singh Station House Officer PS Bhawarna

Mobile No.: _____

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Station House Officer
Bhawarna, Distt. Kangra (H.P.)

Signature and Seal of the Officer-In-charge

Signature of Student: Raghavi
Class Roll No.: 22097
Examination Roll No.: _____

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25th Feb, 2024**, strictly and send the soft copy of

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Navyug Sing Thakur

Permanent Address: Ward No. 7 near gym, Chowari, Distt Chamba

Place of Internship: Police Station Chowari

Telephone No.: 7876220256

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Sh. Rachhpal Singh (officer-incharge) SI, Police Station Chowari

Mobile No.: 9459320004

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

S.H.O.
Police Station Chowari
Distt. Chamba (H.P.)

Signature and Seal of the Officer-In-charge

Signature of Student: Navyug
Class Roll No.: 22090
Examination Roll No.: 8221430060

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

Date: 20-12-2023

C/WI-

# Himachal Pradesh University
(NAAC Accredited 'A' Grade University)
## University Institute of Legal Studies
## Ava- Lodge Campus, Shimla-171004.

Police Station Hamirpur

No: 01-2023/UILS/DEC/WI-

Date: 20-12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student — Shruti Thakur

Permanent Address — Vill- Chall Upesla (Pakka Bharo)
P.O- Thamiyara, Distt- Hamirpur.

Place of Internship — Hamirpur

Telephone No. — 9816803809

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post — INSP/SHO Sh. Hareesh Guleria
PS Sadar Hamirpur (H.P)

Mobile No. — 78769-16805

I agree to keep the aforesaid student for the purpose of training as mentioned in the nstructions.

Signature and Seal of the Officer-In-charge
S.H.O
Police Station Hamirpur
Distt. Hamirpur (H.P.)

gnature of Student — Shruti
lass Roll No. — 22005
:amination Roll No. — 8221430095

: students are directed to return the filled along with report form & Practical file to Dr. Veena mari, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of ificate issued by concerned authority on this Email: uils4sem@gmail.com.

## Certificate of internship

It is certified that Saruti Thakur D/O Sh. Abinash Singh R/O Chall Uperla(Pakka Bharo) P.O Jhaniyara Tehsil & District Hamirpur has been successfully completed her internship from 01.02.2024 to 15.02.2024 at Police Station Sadar Hamirpur (H.P)

As a part of internship programme she was given an overviews of the various criminal activities in the area ND&PS act cases and other cases. She was told about FIR registered (CCTNS mode), about the various police personnel their designation and work chart the process of investigation and other police procedures.

SI/SHO Harish Guleria
PS Sadar Hamirpur
District Hamirpur h.p

OFFICE OF THE STATION HOUSE OFFICER POLICE STATION
KUNIHAR DISTT. SOLAN HP

TO WHOM IT MAY CONCERN

It is certified that Miss Akshita D/O Sh. Subhash Chand Roll No 22064 student of University institute of legal studies Ava-Lodge campus Chaura Maidan Shimla of law 4th semester B.A.LLB hons has attended internship programme in this Police Station w.e.f. 29-01-2024 to 15-02-2024 and learnt the daily police works and take keen interest in learning and her performance during this period was appreciable. I wish her to succeed in all spheres of her life in future.

Station House officer,
Police Station Kunihar,
District Solan (H.P.)

Station House Officer
Police Station Kunihar
District Solan (H.P.)

## To whom it may concerned

It is to certify that, Richa Sharma student of forth semester ( B.A.LL.B HONS.) of Himachal Pradesh University Institute of legal studies , Avalodge, Chaura Maidan Shimla (HP), R/O Vill. Ramera P.O Jaurae Amb Tehsil Badsar Distt Hamirpur (HP) has completed the winter internship for forth semester( B.A.LL.B HONS.) w.e.f 17.01.2024 to 03.02.2024.

In due course of internship he had been exposed to different processes as prescribed in the instruction manual of the winter internship programme and has learned the working of police station as prescribed.

Station House Officer
Police Station Kangra
Distt. Kangra (HP)
Dated 30.02.2024

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: **01-2023/UILS/DEC/WI-** **Date: 20 -12-2023**

To

Mr. Naresh Kumar
SHO PS Barmana
Distt Bilaspur, HP.

**Subject:** **Request for Internship during winter vacations (Winter School).**

Sir/Madam,

As per the new curriculum of B.A.LL.B (Hons.) Five Year Integrated Course, the students of **4th Semester** are required to observe the working/functioning of the Police Stations/Police Post as part of Winter Internship during Winter Vacations for a minimum period of **Two Weeks.** During this period, the student is required to observe the processes and working of the Police Station/ Police Post. They will maintain the Record and enter the Various Steps being observed during their Internship period. Detailed instructions to this effect are attached with this Performa. Accordingly, student will be in touch with your Office and will be subject to your Control and guidance during these ten days period. In case you accept him/her as intern kindly sign the form attached. **At the end of the Winter Clinical Internship Programme you are kindly requested to issue a Certificate to this effect** and same will be submitted by the student along with the practical file to the Teacher In-charge.

Your co-operation in this regard shall be highly appreciated.

With Warm Regards,

Yours Sincerely,

**Prof. (Dr.) Shiv Kumar Dogra**
**Director,**
**University Institute of Legal Studies,**
**Ava-Lodge Campus, Shimla-171004**
**Phone No: 0177-2651586**

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Sania Sharma

Permanent Address: Vill- Samlara, P.O - Jassana, Teh- Bangana, Distt - UNA (H.P)

Place of Internship: Police Station Bangana

Telephone No.: 01975-262043

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: Inspector Anil Sharma P.S Bangana

Mobile No.: 70189-95908

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

S.H.O. P.S. Bangana

Signature and Seal of the Officer-In-charge

Signature of Student: SANIA
Class Roll No.: 22048
Examination Roll No.: 822143 0087

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

TO WHOME IT MAY CONCERN

It is certified that Ambika Sharma D/O Pawan Kumar R/O Vill. Bara PO SathwinTehsil Dhatwal Distt. Hamirpur HP came to the PS Barsar for the BA LLB interne ship from 05.02.2024 to 15.02.2024. During this period she has been taught about Police Working at P.S. level as well as on the spot or in the field level. She has also been taught about online registration of FIR and about CCTNS work properly .She is also aware about police duty i.e. Traffic , Night Patrolling and Law and Order duty .

SHO,
PS BARSAR,
DISTT. HAMIRPUR HP

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI-

Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: AKSHITA

Permanent Address: D/o Sh. Subhash Chand Vill- Hatkot
P.O.- Kunihar, Teh- Arki
Distt- Solan H.P. 173207 .6230147467

Place of Internship: 29-1-24 to

Telephone No.:

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: ASI Roda Ram.
Ps Kunihar

Mobile No.: 70181-01736

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Station [illegible]
Police Station [illegible]
Signature, District Police Officer-In-charge

Signature of Student: Akshita
Class Roll No.: 22064
Examination Roll No.: 822143 0006

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25th Feb, 2024**, strictly and send the soft copy of

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: VARSHA BHARGAVA

Permanent Address: H-100-192, RANGPURI, PUKHTI BADI CHOPAL, NEW DELHI-110037

Place of Internship: MANDIR MARG POLICE STATION GOLE MARKET, NEW DELHI - 110001

Telephone No.: 9599585228

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: _____

Mobile No.: +11-23,36 4100

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

30/01/24

Signature and Seal of the Officer-In-charge

Station House Officer
P.S. Mandir Marg,
New Delhi-110001

Signature of Student: Varsha
Class Roll No.: 22036
Examination Roll No.: 822143011

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024**, strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge Campus, Shimla-171004.**

No: 01-2023/UILS/DEC/WI- Date: 20 -12-2023

**(WINTER SCHOOL)**
**PROFORMA FOR WINTER INTERNSHIP SCHEME FOR IVth SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: ANCHAL

Permanent Address: Vill Riwali Post Off. Shamathal
Tesh. Kumarsain Dist. Shimla

Place of Internship: Rampur Police station.

Telephone No. 01782-233010

Name & Address of SHO/ Officer-in-charge of Police Station/Police Post: ASI/SHO Lal Chand P.S. Rampur

Mobile No. 88947-28022

I agree to keep the aforesaid student for the purpose of training as mentioned in the instructions.

Station House Officer
Police Station Rampur Bsr.
Distt. Shimla (H.P.)

Signature and Seal of the Officer-In-charge

Signature of Student
Class Roll No. 22068
Examination Roll No.

The students are directed to return the filled along with report form & Practical file to **Dr. Veena Kumari**, Teacher In-charge, **on or before 25st Feb, 2024,** strictly and send the soft copy of certificate issued by concerned authority on this Email: uils4sem@gmail.com.

**Himachal Pradesh University**
(NAAC Accredited 'A' Grade University)
**University Institute of Legal Studies**
**Ava- Lodge, Shimla-171004.**

No: 01-2023/UILS/Dec/WI-

Date: 29-12-2023

**PROFORMA FOR WINTER INTERNSHIP AND PLACEMENT PROGRAMME**
**FOR VIII$^{th}$ SEMESTER**
**(B.A.LL.B (HONS.) FIVE YEAR INTEGRATED COURSE)**

Name of the Student: Shubham

Permanent Address: Vill. Baoota Tagir PO Gagruhi Tehsil Jawalamukhi Distt. Kangra (H.P.).

Place of Internship: Tehsil office Jawalamukhi & o/o Patwari PC Gagruhi Tehsil Jawalamukhi.

Telephone No.

Name of the Revenue Officer: Sh. Manohar Lal, Tehsildar Tehsil

Address of the Revenue Officer: Jawalamukhi and Sh. Manoj kumar Pat. Pc Gagruhi Tehsil Jawalamukhi.

Mobile No.

I agree to keep the aforesaid student for the purpose of Training as mentioned in the instructions.

TEHSILDAR
Tehsil Jawalamukhi,
Distt. Kangra (H.P.)

Signature and Seal of the Revenue Officer

Signature of Student: Shubham
Class Roll No: 20051
Examination Roll No: 8201430051

**NOTE:**
The students are directed to return the filled form along with report to **Dr. (Mrs.) Kusum Chauhan**, Teacher In-charge, Clinical Legal Practical Training **on or before 25$^{th}$ Feb, 2024.** Strictly and send the soft copy of certificate issued by concerned authority on this Email: lawtax08@gmail.com

HEMA

Expt. Name _____ Date : _____

# DOCUMENTS OF RIGHTS (RECORD)

## JAMABANDI

It is a document prepared as part of record of right in every revenue estate. It contains entries regarding ownership, cultivation and up-to-date of various rights in land. It is revised every five years when a Jamabandi is prepared by Patwari & attested by Revenue officer.

Jamabandi is a cornerstone for property information, think of it as a property's user manual. This document has the owner's details, the size of the land and for agricultural areas, it may also describe the type of crop.

Remarks

Teacher's Signature _____

HEMA

Expt. Name _____ Date : _____

# SHAJRA KISHTWAR

A Shajra KISHTWAR is an updated version of Musavi. This map is drawn up on a tracing paper. A patwar updates the Shajra Kishtwar as & when required. These changes could be due to the sale or partition and all the boundary changes are recorded.

A Shajra Kishtwar is crucial part of Indian land records. It serves as a family tree detailing land ownership & succession. It helps in identifying rightful landowners & understanding the historical land transaction / transfer within the region. Besides a Shajra Kishtwar is the most updated map showing land boundaries in a particular village.

Remarks

Teacher's Signature _____

HEMA

Expt. Name _____ Date : _____

# SHAJRA NASAV

Shajra Nasab is pedigree table showing succession to ownership rights occurring from time to time in the estate. It is revised and brought up to date every five years. And in the interval changes occuring from time to time are reflected in patwari copy through suitable references.

Shajra Nasab prepared at the time of settlement and forming the part of Record-of-Right. It is a source of information regarding previous proprietary, history of estate & the evolution of proprietary rights from time to time.

# MUTATION REGISTER

Mutation of property is a process

Remarks

Teacher's Signature _____

HEMA

Expt. Name _____ Date : _____

under which the title of property is changed in local municipal records once the property has been transferred in the name of the new owner. After the sale deed is done mutation of property is next step. If the owner of property dies & the property title is transferred in the name of another owner under inheritance law or with mutation records need to be updated.

Hence mutation needs to be done when you buy a property, inherit a property or receive a property through a gift or will.

All such records in relation to mutation of property are recorded in a register called "Mutation Register".

Remarks

Teacher's Signature _____

HEMA

Expt. Name _____ Date : _____

# LATHA

The term latha refers to a type of field map. Survey used to access India's land ownership & records latha Gir dansari is an important part of India's land administration. It refers to an annual land survey conducted by patwaris on cloth maps.

Latha (field Book) Popularly named as Shajra patwari keeps a copy of the Shajra on cloth called "Latha". It gives survey number & dimension prepared at the time of settlement.

Original copy is retained in Tehsil Record Room & it updated every 7 years

Remarks

Teacher's Signature _____

HEMA

Expt. Name _____ Date : _____

# PROCEDURE Of SETTLEMENT PROCEEDINGS:-

Where notification for settlement is issued by the government the complete record from Mohal revenue agency New Shajra Nasab is prepared. With the help of last Jamabandi and preliminary attestation of this jamabandi is conducted in presence of the general public. Thereafter khatauni is prepared. Thereafter khatauni is prepared. The patwari does the measurement of each khasra number & marks it with pencil on musavi. Kanugo re-measures the land measured by patwari & marks the musavi with ink. Settlement Naib Tehsildar does 25% of inspection of each & every work done by patwari & settlement Tehsildar does 2b% inspection.

Once the measurement is over & khatauni is ready after tallying

Remarks

Teacher's Signature _____

HEMA

Expt. Name _____ Date : _____

it with old record, Kanugo does his final attestation in the presence of residents. He reads every entry & issues copies of Kabza list to each & every owner. From this date people can raise objection & thereafter he does his final attest-ation in presence of people.

After final attestation copies of Misal Haqiat & in duplicate & Khasra girdawari are prepared. During Settlement girdawari & mutation etc are done by Settlement staff only.

## Types of SETTLEMENT OPERATIONS :-

### (1) Summary Settlement

This type of Settlement is restored to a temporary measure for a short period without the help of survey equipments.

Remarks

Teacher's Signature _____

HEMA

Expt. Name _____ Date : _____

(2) Kanooni Settlement :-

The regular settlement is taken up where no previous record exist. On this settlement is done with the help of survey equipments

(3) Revised Settlement :-

Under this type of settlement only amendments are carried out without resorting to any measurements.

(4) Complete Revised Settlement :-

Under this type of settlement operation complete re-measurement is carried out with the help of survey equipments

## POWERS of LAND REVENUE OFFICER

(1) Here is a record of the agriculture statistics.

Remarks

Teacher's Signature _____

HEMA

Expt. Name _____ Date : _____

(2) He is guardian and registrar of the soil which is being enjoyed by the private persons

(3) He acts as a collector of the land revenue

(4) He acts as a custodian of State property

(5) Acts as a judge in case b/w landlords & tenants

(6) Collects land revenue, irrigation dues & other taxes.

## DUTIES OF LAND REVENUE OFFICER

(1) He is the Chief Administrative & executive head of the dept

(2) He will be mainly responsible for the proper assessment & proper collection of all Municipal taxes

Remarks

Teacher's Signature _____

HEMA

Expt. Name _____ Date : _____

(3) He supervises the work of both the outdoor & indoor staff of the Revenue Department

(4) Inspection of properties in connection with revision petitions

(5) Scrutinising the work of ARO, Assessors & tax Collectors

(6) Supervise the staff in relation to maintainence of registers in prescribed form

Remarks

Teacher's Signature _____

TO WHOM IT MAY CONECRN

It is certified that Mr. Shubham of 8th Sem of University Institute of Legal Studies AvaLodge , Chaura Maidan, Shimla has attended Tehsil office Jawalamukhi & O/O Patwari P.O Gagruhi Tehsil Jawalamukhi w.e.f. 24/01/2024 to 9/02/2024 under his Winter Internship Programme . In the aforesaid period the knowledge of working and functioning of Revenue Office was given to him.

(Manoj Kumar )Patwari
Patwar Circle Gagruhi
Tehsil Jawalamukhi
Distt. kangra (H.P.)

Dated : 13th Feb 2024

**HIMACHAL PRADESH UNIVERSITY**
**(NAAC ACREDITED 'A' GRADE UNIVERSITY)**
**UNIVERSITY INSTITUTE OF LEGAL STUDIES**
**AVA-LODGE, SHIMLA-171004.**

**No: 01-2023/UILS/DEC.-** **Date: 13-12-2023**

## OFFICE ORDER

**Sub: Regarding Winter School/Internship & Placement Programme.**

This is for the information of all of the below mentioned teachers incharge of University Institute of Legal Studies that during the winter vacations the Institute is engaging the students with the Police Station/Advovates/Public Prosecutors/Revenue Officers/Courts for the purpose of observance of Legal process/proceedings to be initiated by above mentioned Institutions/Authorities. The following faculty members are hereby deputed to look after the **Winter Vacation Placement Programme (1st January, 2024 to 19th February, 2024):**

| 6Semester | Teacher Incharge | Place of Internship Programme |
|---|---|---|
| **B.A.LL.B(Hons.) 2nd Semester** | Dr. Karuna Devi & Dr. Sanyogita Thakur | The students will go to **Corporate or Law firm or Advocate's Chamber or Law Officer (for Two weeks).** |
| **B.A.LL.B(Hons.) 4th Semester** | Dr. Veena Kumari & Ms. Ritika Rana | The students will go to **Police Station/Police Chowky** of their respective places **(for Two Weeks).** |
| **B.A.LL.B(Hons.) 6th Semester** | Dr. Seema Kashyap & Dr. Vijay Chaudhary | The students will ensure their presence to observe the proceedings of Advocate General/ Addl. Advovate General/Dy. Advovcate General/ Asstt. Advocate General or **Public Prosecutor(s) (for Two Weeks).** |
| **B.A.LL.B(Hons.) 8th Semester** | Dr. Kusum Chauhan & Dr. Suman Vimal | The students will go to the **Revenue Offices like Patwari, Kanungo, Naib Tehsildar etc. (for Two Weeks).** |
| **B.A.LL.B(Hons.) 10th Semester** | Dr. Sandeep Kumar | As per the Curriculum of Winter Training Programme Two Trials besides each student will observe Two Interview Sessions of clients at the Lawyer,s Office /Legal Aid Office **Course No. LLB(H)1004 i.e. Moot Court Exercise & Internship (Practical –IV) (for One Month)** |

The students from 2nd to 8th Semester will attend the respective offices for 14 days whereas the students of 10th Semester will attend the Courts for 30 days during the winter vacations. The Instructions in this regard are issued separately alongwith the Performa/Letter.

All the students will maintain record and enter the various steps/proceedings/observations during their attendance on different days as assigned.

Dr. Sandeep Kumar, Associate Professor, shall be the overall In-charge/Convenor of Winter Vacation Placement Programme.

**Director**

**Copy to:**

1. **All concerned Teachers In-charge**
2. **Guard file.**

**Director** 13/12/23

Director
University Institute of Legal Studies
H.P.U. Ava-Lodge, Chaura Maidan,
Shimla-171004.

# HIMACHAL PRADESH UNIVERSITY
**(NAAC Accredited 'A' Grade University)**
**Main Library Summerhill Shimla-5**

Dated: 20.08.2024

No. HPUL/Internship/2015-

To

The Chairman,
Department of Library and Information Science,
HPU, Shimla-5.

Subject: Internship Report of Bachelor of Library and Information Science students.

Sir,

With reference to your letter No. HPU/LIS/Internship dated 10.7.2024, it i submitted the following students of your department have completed one month internship i Himachal Pradesh University, Central Library, Summerhill, Shimla-5 w.e.f. 15.07.2024 t 14.08.2024. During the period of internship the students were deployed in different sections o our Library to get the exposure of various Library functions.

| Sr No. | Name | Examination Roll No. |
|---|---|---|
| 1 | ANKITA THAKUR D/o Pratap Singh | 27230010001 |
| 2 | ANKITA THAKUR D/o Gulab Singh | 27230010002 |
| 3 | DEEPAKSHI SHARMA | 27230010004 |
| 4 | DEEPIKA | 27230010005 |
| 5 | HANS RAJ | 27230010006 |
| 6 | IRSHAD AHMAD | 27230010008 |
| 7 | JYOTI | 27230010009 |
| 8 | JYOTI THAKUR | 27230010010 |
| 9 | KARISHMA | 27230010011 |
| 10 | KUMUD SHARMA | 27230010012 |
| 11 | MEENAKSHI | 27230010013 |
| 12 | SAKSHI SHARMA | 27230010014 |
| 13 | SHIVANI | 27230010015 |
| 14 | SHIVANI THAKUR | 27230010016 |
| 15 | SIMRAN VERMA | 27230010017 |
| 16 | SONAM YANGKIT | 27230010018 |

Yours faithfully,

Deputy Librarian

Deputy Librarian

2201

# सिरमौर की लोक संस्कृति में शिरगुल देवता

हिमाचल प्रदेश विश्वविद्यालय में (एम ए) इतिहास की उपाधि

हेतु शोध प्रबंध

**(2022 —2024 )**


शोध निर्देशक

प्रो सन्नी कुमार

सहायक आचार्य,इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

शोधार्थी

सदानंद

रोल नं .57220010036

इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

समरहिल, शिमला-171005


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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
(एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय
समरहिल
शिमला,171005

प्रो.सन्नी कुमार

## प्रमाण पत्र

यह प्रमाणित किया जाता है कि **सदानंद रोल नं. 57220010036** ने अपने एम.ए. शोध प्रबंध के लिए मेरे निर्देशन में काम किया है, जिसका शीर्षक है "**सिरमौर की लोक संस्कृति में शिरगुल देवता** "शोध प्रबंध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्ट्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानता हूँ।

दिनांक: 15/06/2024
स्थान: शिमला

(निरिक्षक)
**प्रो.सन्नी कुमार**
सहायक आचार्य,इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय

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2202

# CULTURAL HISTORY OF SIRMOUR

# (1815 -1947)

## A Dissertation

**Submitted to the Himachal Pradesh University, Shimla in partial fulfilment of the requirements for the Degree of**

**Master of Arts**

**in**

**History**

**2022 - 2024**


**Supervisor**
**Mr. Sunny Kumar**
**Assistant Professor**
**Department of History**

**Submitted by**
**Babu Ram**
**Roll.No. 57220010005**
**Semester 4th**


**Department of History**

**Himachal Pradesh University Shimla – 171005**

**2022 – 2024**

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# Certificate

This is certified that **Babu Ram**, Roll No. **57220010005** has worked under my supervision for his M.A. Dissertation entitled **"Cultural History of Sirmour (1815 - 1947) ".** His work is based on fieldwork and secondary sources. No part of the dissertation has been submitted in any other University or institution for the award of any degree. I consider it worthy to be submitted for evaluation and for the award of the degree of M.A. (History) in Himachal Pradesh University, Shimla.

(Supervisor)

**Mr. Sunny Kumar**
**Assistant Professor**
**Department of History**
**Himachal Pradesh University, Shimla**

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2203

# THE BRITISH RELATIONSHIP WITH SHIMLA HILL STATES (1815 to 1947)

## A DISSERTATION

**Submitted to the Himachal Pradesh University Shimla**
**In Partial Fulfilment of the Requirements**
**For the Degree of**

**MASTER OF ARTS**
**IN**
**HISTORY**
**2022-2024**


**Supervised By**

**MR. Sunny Kumar**
**Assistant Professor**
**Department of History**
**Himachal Pradesh University, Shimla**

**Submitted By**

**Kulbhushan**
**Roll No. – 57220010015**



**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER HILL SHIMLA 171005**

**2024**

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# Certificate

This is certified that **Mr. Kulbhushan**, University **Roll No. 57220010015** has worked under my supervision of him M.A Dissertation entailed **"Shimla Hill States Relations with British (1815-1947)"**. His research is based on his original work and field work. No part of the dissertation has been submitted in any other University or institution.

I consider it worthy to be submitted for evaluation for the award of the degree of Master of Arts (History) in Himachal Pradesh University, Shimla.

**SHIMLA**

**(Supervisor)**

**Mr. Sunny Kumar**
**Assistant professor**
**Department of History**
**Himachal Pradesh**
**University Shimla**

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# ANTIQUITY OF PABBER VALLEY

## PROJECT WORK

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY,
SUMMERHILL, SHIMLA IN PARTIAL FULFILMENT
OF THE REQUIREMENTS FOR THE DEGREE OF

## MASTER OF ARTS
## IN
## HISTORY

(2022-2024)


**Submitted to:**

**Dr. Vinay Kumar Sharma**

**Submitted by:**

**Atul**

**Roll No. 2204**

**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMERHILL, SHIMLA-171005**


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# करसोग के मेले और त्यौहार

हिमाचल प्रदेश विश्वविद्यालय शिमला की एम०ए० इतिहास उपाधि
की आंशिक अभिपूर्ति हेतु प्रस्तुत लघु शोध

2022-2024


शोध निर्देशक :

**डॉ० विनय शर्मा** 1/7/24

सहायक आचार्य, इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय, शिमला

शोधार्थी :

**शिल्पा**

कक्षा अनुक्रमांक : 2205
परीक्षा अनुक्रमांक : 57220010039



कला संकाय
इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय शिमला
समरहिल, शिमला-171005


Scanned with OKEN Scanner

## इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित 'ए' ग्रेड विश्वविद्यालय)

समरहिल शिमला 171005

**डॉ० विनय शर्मा**

सहायक आचार्य


# प्रमाण-पत्र

प्रमाणित किया जाता है कि हिमाचल प्रदेश 'ए' ग्रेड विश्वविद्यालय शिमला की एम०ए० इतिहास की उपाधि हेतु प्रस्तुत **'करसोग के मेले और त्यौहार'** के संदर्भ में **शिल्पा** ने मेरे निर्देशन में कार्य किया है। शोध प्रबंध शोधार्थी का मौलिक कार्य हैं। यह किसी अन्य विश्वविद्यालय या संस्थान में किसी भी उपाधि के लिए प्रस्तुत नही किया गया है। यह एक अप्रकाशित कृति है इसलिए इस शोध प्रबंध को एम०ए० की उपाधि दिया जाना उचित हैं।

**स्थान : शिमला**

17/7/24

**डॉ० विनय शर्मा**

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# लोक गाथाओं में मण्डी जिले का इतिहास

हिमाचल प्रदेश विश्वविद्यालय में **एम. ए. (इतिहास)** की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

2022-2024




निर्देशक
07/06/2024
प्रो ० अरुण कुमार सिंह

प्रस्तुतकर्ता
Bunesh
बुनेश कुमार

रोल नं.- 2206

इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

समरहिल शिमला -171005

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इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय शिमला

प्रो ० अरुण कुमार सिंह फोन नं 9418850505

## प्रणाम –पत्र

प्रमाणित किया जाता है कि **बुनेश कुमार** , रोल नंबर **2206** ने **"लोक गाथाओं में मण्डी जिले का इतिहास"** नामक विषय पर मेरे निर्देशन में लघुशोध – निबंध लिखा है। इनका यह कार्य मौलिक है। जहां तक मुझे जानकारी है, यह शोध– निबंध कार्य किसी भी विश्वविद्यालय में किसी उपाधि के लिए प्रस्तुत नहीं किया गया है।

अत: मैं इस शोध - निबंध कार्य को मास्टर आफ आर्टस (इतिहास) हिमाचल प्रदेश विश्वविद्यालय, समरहिल शिमला, की उपाधि प्रदान करने हेतु प्रस्तुत किए जाने योग्य समझता हूँ।

शोध निर्देशक

प्रो ० अरुण कुमार सिंह

दिनांक
07/06/2024

स्थान: शिमला

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# जिला मण्डी के प्रमुख मेले एवम् त्योहार

हिमाचल प्रदेश विश्वविद्यालय में **एम. ए. (इतिहास)** की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

2022-2024

निर्देशक
प्रो ० अरुण कुमार सिंह 07/06/2024

प्रस्तुतकर्ता
गिरी राज

रोल नं.- 2207

इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

समरहिल शिमला -171005

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**इतिहास विभाग**

**हिमाचल प्रदेश विश्वविद्यालय**

**(एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय**

**समर हिल शिमला,171005**

**प्रो. अरुण कुमार सिंह**

---

## प्रमाण पत्र

प्रमाणित किया जाता है कि **गिरी राज** रोल नं. 2207 ने अपने एम.ए. शोध प्रबंध के लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक है **ज़िला मण्डी के प्रमुख मेले एवम् त्योहार "** शोध प्रबंध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्ट्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानता हूँ।

दिनांक: 07/06/2024

स्थान: शिमला

प्रो अरूण कुमार सिंह

(निरीक्षक)

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# TRADITIONAL JEWELLERY AND COSTUME OF CHAMBA

## A DISSERTATION

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY, SHIMLA
IN PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE DEGREE OF

**MASTER OF ARTS**
**IN**
**HISTORY**
**(2022-24)**


**Supervised by :**
07/06/2024
**Prof. Arun Kumar Singh**

**Submitted by :**
Kanika
**Kanika**
**Roll no. 2208**

**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER HILL, SHIMLA- 171005**


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Prof.Arun Kumar Singh

**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**(NAAC Accredited 'A' Grade University)**
**Summer Hill, Shimla- 171005**

## CERTIFICATE

Certified that **Miss. Kanika**, Roll no 2208 has worked under my supervision for her M.A Dissertation entitled "**Traditional Jewellery and Costume of Chamba".** No part of the dissertation has been submitted in any other University or Institution. I consider it worthy to be submitted for evaluation for the award of the degree of Master of Arts (History) in Himachal Pradesh University, Shimla.

Dated: 07/06/2024
Place: Shimla

Prof. Arun Kumar Singh
(Supervisor)

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# कांगड़ा के मंदिरों का इतिहास ( बैजनाथ शिव मंदिर, ज्वाला जी मन्दिर और बृजेश्वरी मंदिर)

हिमाचल प्रदेश विश्वविद्यालय में **एम. ए. (इतिहास)** की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

2022-2024

निर्देशक
प्रो ० अरुण कुमार सिंह 07/01/2024

प्रस्तुतकर्ता
राधा

रोल नं.- 2209

इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

समरहिल शिमला -171005

Scanned with OKEN Scanner

**इतिहास विभाग**

**हिमाचल प्रदेश विश्वविद्यालय**

**(एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय**

**समर हिल शिमला,171005**

**प्रो. अरुण कुमार सिंह**

---

## प्रमाण पत्र

प्रमाणित किया जाता है कि **राधा** रोल नं. 2209 ने अपने एम.ए. शोध प्रबंध के लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक है **कांगड़ा के मंदिरों का इतिहास बैजनाथ शिव मंदिर, ज्वाला जी और बृजेश्वरी मन्दिर"** शोध प्रबंध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्ट्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानता हूँ।

दिनांक: 07/06/2024

स्थान: शिमला

प्रो अरूण कुमार सिंह

(निरीक्षक)

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# पब्बर घाटी के प्रमुख देवताओं का इतिहास

हिमाचल प्रदेश विश्वविद्यालय में **एम.ए. (इतिहास)** की उपाधि हेतु

**प्रस्तुत शोध प्रबन्ध**

**2022–2024**




निर्देशक

07/06/2024

प्रो. अरूण कुमार सिंह

प्रस्तुतकर्त्ता

पल्लवी फिष्टा

रोल नं.: 2210

**इतिहास विभाग**

**हिमाचल प्रदेश विश्वविद्यालय**

**समरहिल शिमला–171005**

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इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय शिमला

**प्रो॰ अरूण कुमार सिंह** **फोन नं. 94188–50505**

# प्रमाण–पत्र

प्रमाणित किया जाता है कि पल्लवी फिष्टा, रोल नं. 2210 ने **"पब्बर घाटी के प्रमुख देवताओं का इतिहास"** नामक विषय पर मेरे निर्देशन में लघुशोध–निबंध लिखा है। इनका यह कार्य मौलिक है। जहां तक मुझे जानकारी है, यह शोध–निबंध कार्य किसी भी विश्वविद्यालय में किसी उपाधि के लिए प्रस्तुत नहीं किया गया है।

अतः मैं इस शोध–निबंध कार्य को मास्टर ऑफ ऑटर्स (इतिहास) हिमाचल प्रदेश विश्वविद्यालय, समरहिल शिमला, की उपाधि प्रदान करने हेतु प्रस्तुत किए जाने योग्य समझता हूँ।

दिनांकः 07/06/2024

शोध निर्देशक

07/06/2024

**प्रो॰ अरूण कुमार सिंह**

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# सुकेत की संस्कृति, रीति-रिवाज तथा इतिहास

हिमाचल प्रदेश विश्वविद्यालय में **एम. ए. (इतिहास)** की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

2022-2024




निर्देशक
07/06/2024
प्रो ० अरुण कुमार सिंह

प्रस्तुतकर्ता
गोपाल सिंह ठाकुर

रोल नं. - 2211

इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

समरहिल शिमला -171005

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## इतिहास विभाग

## हिमाचल प्रदेश विश्वविद्यालय शिमला

**प्रो ० अरुण कुमार सिंह** **फोन नं 9418850505**


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## प्रणाम –पत्र

प्रमाणित किया जाता है कि गोपाल सिंह ठाकुर , रोल नंबर 2211 ने **"सुकेत की संस्कृति रीति रिवाज तथा इतिहास"** नामक विषय पर मेरे निर्देशन में लघुशोध – निबंध लिखा है। इनका यह कार्य मौलिक है। जहां तक मुझे जानकारी है, यह शोध– निबंध कार्य किसी भी विश्वविद्यालय में किसी उपाधि के लिए प्रस्तुत नहीं किया गया है।

अत: मैं इस शोध - निबंध कार्य को मास्टर आफ आर्टस (इतिहास) हिमाचल प्रदेश विश्वविद्यालय, समरहिल शिमला, की उपाधि प्रदान करने हेतु प्रस्तुत किए जाने योग्य समझता हूँ।

07/06/2024
**दिनांक**

**शोध निर्देशक**

**प्रो ० अरुण कुमार सिंह**

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# THE TEMPLE ARCHITECTURE OF HIMACHAL PRADESH WITH SPECIAL FOCUS ON HIDIMBA DEVI TEMPLE AND CHEHNI KOTHI TEMPLE OF DISTRICT KULLU

## A DISSERTATION

**SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY, SHIMLA**
**IN PARTIAL FULFILMENT OF THE REQUIREMENTS**
**FOR THE DEGREE OF**

## MASTER OF ARTS
## IN
## HISTORY

**(2022-24)**




**Supervised by :**
07/06/2024
**Prof. Arun Kumar Singh**

**Submitted by :**
Neha
**Neha Thakur**
**Roll No. 2212**

**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER HILL, SHIMLA- 171005**

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Prof.Arun Kumar Singh

# DEPARTMENT OF HISTORY
## HIMACHAL PRADESH UNIVERSITY
**(NAAC Accredited 'A' Grade University)**
**Summer Hill, Shimla- 171005**

---

## CERTIFICATE

Certified that **Miss. Neha Thakur**, Roll No. 2212 has worked under my supervision for her M.A Dissertation entitled "**The Temple Architecture of Himachal Pradesh with Special Focus on Hidimba Devi Temple and Chehni Kothi Temple of District Kullu".** No part of the dissertation has been submitted in any other University or Institution. I consider it worthy to be submitted for evaluation for the award of the degree of Master of Arts (History) in Himachal Pradesh University, Shimla.

Dated: 07/06/2024
Place: Shimla

Prof. Arun Kumar Singh
(Supervisor)

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# "हिमाचल में मन्दिर वास्तुकला की शैलियाँ"

सत्र

2022–2024


शोध निर्देशक

डॉ० अंकुश भारद्वाज
सहायक प्रोफेसर, इतिहास विभाग
हि०प्र०, विश्वविद्यालय
समरहिल शिमला, 171005

शोधार्थी

शालु
कक्षा अनुक्रमांक– 2213
परीक्षा अनुक्रमांक–
57220010038



इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)

समरहिल शिमला, 171005


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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)
समरहिल शिमला, 171005

डॉ० अंकुश भारद्वाज

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## प्रमाण–पत्र

प्रमाणित किया जाता है कि हिमाचल प्रदेश 'ए' ग्रेड विश्वविद्यालय शिमला की एम० ए० इतिहास की उपाधि हेतु प्रस्तुत **"हिमाचल में मन्दिर वास्तुकला की शैलियाँ"** लघु शोध प्रबन्ध शालु ने मेरे निर्देशन में किया है। शोध प्रबन्ध शोधार्थी का मौलिक कार्य है। यह किसी अन्य विश्वविद्यालय या संस्थान में किसी भी उपाधि के लिए प्रस्तुत नहीं किया गया है। यह एक अप्रकाशित कृति है, इसलिए इस शोध प्रबन्ध को एम०ए० इतिहास की उपाधि दिया जाता उचित है।

स्थानः– शिमला

डॉ० अंकुश भारद्वाज

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# सिरमौर में बहुपतित्व प्रथा

हिमाचल प्रदेश विश्वविद्यालय

की

एम०ए० इतिहास की उपाधि

की आंशिक अभिपूर्ति हेतु प्रस्तुत लघु शोध निबन्ध

**सत्र 2022–2024**


**शोध निर्देशक**

डॉ० अंकुश भारद्वाज
सहायक प्रोफेसर, इतिहास विभाग
हि०प्र०, विश्वविद्यालय
समरहिल शिमला, 171005

**शोधार्थी**

बालमा शर्मा
कक्षा अनुक्रमांक– 2214
परीक्षा अनुक्रमांक
57220010006



इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)

समरहिल शिमला, 171005


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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)
समरहिल शिमला, 171005

डॉ० अंकुश भारद्वाज

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# प्रमाण–पत्र

प्रमाणित किया जाता है कि हिमाचल प्रदेश 'ए' ग्रेड विश्वविद्यालय शिमला की एम० ए० इतिहास की उपाधि हेतु प्रस्तुत **"सिरमौर में बहुपतित्व प्रथा"** लघु शोध प्रबन्ध बालमा शर्मा ने मेरे निर्देशन में किया है। शोध प्रबन्ध शोधार्थी का मौलिक कार्य है। यह किसी अन्य विश्वविद्यालय या संस्थान में किसी भी उपाधि के लिए प्रस्तुत नहीं किया गया है। यह एक अप्रकाशित कृति है, इसलिए इस शोध प्रबन्ध को एम०ए० इतिहास की उपाधि दिया जाता उचित है।

स्थानः– शिमला

डॉ० अंकुश भारद्वाज

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# पझौता आन्दोलन में वैध सूरत सिंह का योगदान

हिमाचल प्रदेश विश्वविद्यालय

की

एम०ए० इतिहास की उपाधि

की आंशिक अभिपूर्ति हेतु प्रस्तुत लघु शोध निबन्ध

**सत्र 2022–2024**


**शोध निर्देशक**

डॉ० अंकुश भारद्वाज
सहायक प्रोफेसर, इतिहास विभाग
हि०प्र०, विश्वविद्यालय
समरहिल शिमला, 171005

**शोधार्थी**

प्रियंका
कक्षा अनुक्रमांक– 2215
परीक्षा अनुक्रमांक
57220010031


**इतिहास विभाग**

**हिमाचल प्रदेश विश्वविद्यालय**

**(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)**

**समरहिल शिमला, 171005**

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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)
समरहिल शिमला, 171005

डॉ० अंकुश भारद्वाज

---

# प्रमाण–पत्र

प्रमाणित किया जाता है कि हिमाचल प्रदेश 'ए' ग्रेड विश्वविद्यालय शिमला की एम० ए० इतिहास की उपाधि हेतु प्रस्तुत **"पझौता आन्दोलन में वैध सूरत सिंह का योगदान"** लघु शोध प्रबन्ध प्रियंका ने मेरे निर्देशन में किया है। शोध प्रबन्ध शोधार्थी का मौलिक कार्य है। यह किसी अन्य विश्वविद्यालय या संस्थान में किसी भी उपाधि के लिए प्रस्तुत नहीं किया गया है। यह एक अप्रकाशित कृति है, इसलिए इस शोध प्रबन्ध को एम०ए० इतिहास की उपाधि दिया जाता उचित है।

स्थानः– शिमला

डॉ० अंकुश भारद्वाज

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# जिला शिमला के अंतर्गत धार चांदना गांव का ऐतिहासिक और सांस्कृतिक अध्ययन

## लघु शोध प्रबंध

इतिहास में एम.ए. की डिग्री 2022-2024 के लिए हिमाचल प्रदेश विश्वविद्यालय में जमा किया गया!


पर्यवेक्षक:

डॉ. अंकुश भारद्वाज

प्रस्तुतकर्ता:

राहुल

अनुक्रमांक. 2216

सेमेस्टर. चौथा

इतिहास विभाग हिमाचल प्रदेश विश्वविद्यालय शिमला-171005


(2022 – 2024)

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**इतिहास विभाग**

**हिमाचल प्रदेश विश्वविद्यालय**

**(एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय**

**समरहिल**

**शिमला,171005**

**डॉ० अंकुश भारद्वाज**

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## प्रमाण पत्र

प्रमाणित किया जाता है कि **राहुल** रोल नं. **2216** ने अपने एम.ए. शोध प्रबंध के लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक है **"जिला शिमला के अंतर्गत धार चांदना गाँव का ऐतेहासिक और संस्कृतिक अध्ययन"** शोध प्रबंध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्ट्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानता हूँ।

दिनांक: .....
स्थान: शिमला

डॉ अंकुश भारद्वाज
(निरीक्षक)

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# कांगड़ा का सामाजिक एवं सांस्कृतिक परिवेश

हिमाचलप्रदेश विश्वविद्यालय समरहिल शिमला एम० ए० इतिहास विभाग

चतुर्थ प्रश्न पत्र के विकल्प के रूप में प्रस्तुत

## लघु शोध - प्रबंध

सत्र - 2022 - 2024


| शोध निर्देशक - | शोधार्थी |
|---|---|
| डॉ० अंकुश भारद्वाज | राकेश कुमार |
| एसोसिएट प्रोफेसर | कक्षा अनुक्रमांक - 2217 |
| हिमाचल प्रदेश विश्वविद्यालय शिमला इतिहास विभाग | विश्वविद्यालय अनुक्रमांक - 57220010034 |
| | एम० ए० इतिहास विभाग चतुर्थ सेमेस्टर |


## इतिहास विभाग

**हिमाचल प्रदेश विश्वविद्यालय समरहिल शिमला [ 171005 ]**

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# हिमाचल प्रदेश विश्वविद्यालय समरहिल शिमला

## शोध निर्देशक का प्रमाण - पत्र

प्रमाणित किया जाता है कि राकेश कुमार का लघु शोध निबंध कांगड़ा का सामाजिक एवं सांस्कृतिक परिवेश एम० ए० इतिहास विभाग ! हिमाचल प्रदेश विश्विद्यालय शिमला के द्वारा दिया गया निबंध लेखन मेरी जानकारी में सत्य है ।

**शोध निर्देशक -**

**डॉ० अंकुश भारद्वाज**

**इतिहास विभाग**

**हिमाचल प्रदेश विश्वविद्यालय समरहिल शिमला 171005 !**

**हस्ताक्षर** .....

Scanned with OKEN Scanner

# DEPARTMENT OF HISTORY
# HIMACHAL PRADESH UNIVERSITY
## (NAAC Accredited 'A' Grade University)
## Summer Hill, Shimla- 171005

## DECLARATION

This is to certify that this dissertation entitled, 'Economic Growth of Himachal Pradesh from 1952-1977', being submitted by Jayatri (Roll No. 2218) to the Department of History, Himachal Pradesh University, Shimla in partial fulfilment of the requirements for the award of the degree of Master of Arts has not been previously submitted for any other degree of this university or any other and is my original work.

Jayatri

**Jayatri**
(Candidate)

## CERTIFICATE

We recommend that this dissertation be placed before the examiners for evaluation.

Ankush

**Dr. Ankush Bhardwaj**
(Supervisor)

# ECONOMIC GROWTH OF HIMACHAL PRADESH FROM 1952-1977

## A DISSERTATION

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY, SUMMER-HILL SHIMLA, IN PARTIAL FULFILMENT OF THE REQUIRMENTS FOR THE DEGREE OF

**MASTER OF ARTS**

**IN HISTORY**

**(2022-2024)**


**Submitted to:**

**Dr. Ankush Bhardwaj**

**Submitted by:**

**Jayatri**

**Roll No. 2218**

DEPARTMENT OF HISTORY

HIMACHAL PRADESH UNIVERSITY

SUMMER-HILL SHIMLA-171005


Scanned with OKEN Scanner

# चंबा में गद्दी जनजाति का सामाजिक जीवन


निर्देशक

डॉ॰ अंकुश भारद्वाज
सह॰ आचार्य

शोधार्थी

पूजा
अनुक्रमांक 2219



इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)
समरहिल, शिमला-171005
2022—2024


Scanned with OKEN Scanner

डॉ॰ अंकुश भारद्वाज
सह॰ आचार्य

इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
समरहिल, शिमला-171005

# प्रमाण पत्र

प्रमाणित किया जाता है कि **पूजा,** अनुक्रमांक 2219 ने **"चंबा में गद्दी जनजाति का सामाजिक जीवन"** नामक विषय पर मेरे निर्देशन में लघु शोध कार्य लिखा है। इनका यह कार्य मौलिक है। जहां तक मुझे जानकारी है, यह लघु शोध कार्य किसी भी विश्वविद्यालय में किसी उपाधि के लिए प्रस्तुत नहीं किया गया है।

अतः मैं इस लघु शोध कार्य को स्नातकोत्तर (इतिहास) हिमाचल प्रदेश विश्वविद्यालय, समरहिल शिमला की उपाधि प्रदान करने हेतु प्रस्तुत किए जाने योग्य समझता हूँ।

**दिनांक .....**

**डॉ॰ अंकुश भारद्वाज**

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# *KUHLS* AND IRRIGATION SYSTEM IN GALTHANI VILLAGE OF SHIMLA

**SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY, SHIMLA IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF**

**MASTER OF ARTS**

**IN**

**HISTORY**

**2022-2024**


**SUPERVISED BY:**
**Dr. Anjali verma**
**Assistant Professor**
**H. P. University Shimla -5**

Anchal Sharma
**SUBMITTED BY:**
**Anchal Sharma**
**Roll No. -2223**
**University Roll No. 57220010001**



**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**(NAAC Accredited 'A' Grade University)**
**SUMMER HILL SHIMLA -171005**


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**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER HILL, SHIMLA -171005**

***Dr. Anjali Verma***
***(Assistant Professor)***

# Certificate

This is to certify that the dissertation entitled '***KUHLS* AND IRRIGATION SYSTEM IN GALTHANI VILLAGE OF SHIMLA'** is an original work of **Anchal Sharma** under my supervision and guidance in the Department of History, Himachal Pradesh University, Shimla-5, present research has not been submitted either in part or in full for any M.A. degree or diploma in any other University.

**(DR. Anjali Verma)**

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# The Goddesses and Royal Women in Five Temples of Chamba: 8th to 18th Century

## A DISSERTATION

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY, SUMMER-HILL, SHIMLA IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE OF

## MASTER OF ARTS
## IN
## HISTORY
## (2022-2024)


**Submitted to:**

Anjali Verma

**Dr. Anjali Verma**

Assistant Professor

**Submitted by:**

**Khem Raj**

**Roll No. 2224**


## DEPARTMENT OF HISTORY
## HIMACHAL PRADESH UNIVERSITY
## SUMMER-HILL, SHIMLA-171005

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DEPARTMENT OF HISTORY
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited 'A' Grade University)
SUMMER-HILL SHIMLA-171005

*Dr. Anjali Verma*
**Assistant Professor**

# CERTIFICATE

This is to certify that the dissertation entitled **'The Goddesses and Royal Women in Five Temples of Chamba: 8th to 18th Century'** submitted by Khem Raj in partial fulfilment of the requirements for the degree of Master of Arts in History has been carried out under my supervision and guidance.

The data reported in the dissertation is genuine and represents his original work mostly and no part of the dissertation has been submitted to any university or institution for any master degree or diploma.

In my opinion, the dissertation is worthy of consideration for the evaluation of Degree of Master of Arts in History.

**Date:** 12/06/2024

**Place: Shimla**

Anjali Verma
**(Dr. Anjali Verma)**

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नेहा सिरमौर के चुनवी बोड़ गांव में महिला सशक्तिकरण

हिमाचल प्रदेश विश्वविद्यालय में

एम.ए (इतिहास) की उपाधि हेतु प्रस्तुत

शोध प्रबंध

(2022-24)

शोध निर्देशिका:

डॉ॰ अंजली वर्मा

सहायक प्रोफेसर, इतिहास विभाग

हिमाचल प्रदेश विश्विद्याल,

शिमला 171005

शोधार्थी:

नेहा धीमान

Class Roll No - 2225

अनुक्रमांक: 57220010020

इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद 'ए' ग्रेड विश्वविद्यालय )

समरहिल, शिमला-171005

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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय
समरहिल
शिमला,171005

डॉ अंजली वर्मा
( सहायक प्रोफेसर )

## प्रमाण पत्र

प्रमाणित किया जाता है कि **नेहा धीमान** रोल नं. 57220010020 ने अपने एम.ए. शोध प्रबंध के लिए मेरे निर्देशन में काम किया है, जिसका शीर्षक '**ज़िला सिरमौर के चुनवी-बोड़ गांव में महिला संपत्ति अधिकार**' है। शोध प्रबन्ध शोधार्थी का मौलिक कार्य है। यह किसी अन्य विश्वविधालय या संस्थान में किसी भी उपाधि के लिए प्रस्तुत नहीं किया गया है। यह एक अप्रकाशित कृति है। इसलिए इस शोध प्रबन्ध एम० ए० इतिहास की उपाधि दिया जाना उचित है।

Anjali Verma
डॉ अंजली वर्मा

दिनांक: 14/06/2024

स्थान: शिमला

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# जिला मण्डी के दनौंट गांव में विवाह परंपराएँ : ढ़वाल प्रथा के संदर्भ में

हिमाचल प्रदेश विश्वविद्यालय
की
(एम० ए०) इतिहास की उपाधि
की आंशिक अभिपूर्ति हेतु प्रस्तुत लघु शोध निबन्ध
सत्र – 2022–2024


शोध निर्देशिका

डॉ० अंजली वर्मा
सहायक प्रोफेसर, इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
समरहिल, शिमला– 171005

शोधार्थी

शुटू देवी
कक्षा अनुक्रमांक– 2226
परीक्षा अनुक्रमांक – 57220010043



इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)
समरहिल, शिमला– 171005


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हिमाचल प्रदेश विश्वविद्यालय
(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)
समरहिल, शिमला– 171005

डॉ० अंजली वर्मा

# प्रमाण–पत्र

प्रमाणित किया जाता है कि हिमाचल प्रदेश 'ए' ग्रेड विश्वविद्यालय, शिमला, की एम० ए० इतिहास की उपाधि हेतू प्रस्तुत **'जिला मण्डी के दनौंट गांव में विवाह परंपराएँ : ढ़वाल प्रथा के संदर्भ में'** लघु शोध– प्रबन्ध **शुटू देवी** ने मेरे निर्देशन में किया है। शोध–प्रबन्ध शोधार्थी का मौलिक कार्य है। यह किसी अन्य विश्वविद्यालय या संस्थान में किसी भी उपाधि के लिये प्रस्तुत नहीं किया गया है। यह एक अप्रकाशित कृति है। इसलिये इस शोध–प्रबन्ध को एम० ए० इतिहास की उपाधि दिया जाना उचित है।

Anjali Verma

स्थानः शिमला

(डॉ० अंजली वर्मा)

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# Shirgul in Folk Songs *(Limber)* of Kupvi Region of Shimla in Himachal Pradesh: A Field Survey Done in 2023 – 2024

## A DISSERTATION

**SUBMITTED TO THE FACULTY OF SOCIAL SCIENCES**
**HIMACHAL PRADESH UNIVRESITY, SHIMLA**
**FOR THE DEGREE OF**

## MASTER OF ARTS
## IN
## HISTORY

**2024**


**Research Guide**

**Anjali Verma**
**Assistant Professor,**
**Department of History**

**Researcher**

**Swati**
**Roll.no. - 2227**
**University Roll No.: 57220010045**

**Department of History**
**Himachal Pradesh University**
**(NAAC Accredited 'A' Grade University)**
**Shimla - 171005**


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# DEPARTMENT OF HISTORY

## HIMACHAL PRADESH UNIVERSITY

## (NAAC Accredited 'A' Grade University)

## SUMMER HILL, SHIMLA - 171005

*Dr. Anjali Verma*

**Assistant Professor**


## CERTIFICATE

This is to certify that Miss Swati has worked under my supervision for her M.A dissertation entitled, '**Shirgul in Folk Songs (*Limber*) in Kupvi Region of Shimla in Himachal Pradesh: A Field Survey done in 2023- 2024'.** This is based mostly on her original or inspired research. No part of this dissertation has been submitted for MA degree or any diploma here or in any other university or institution. I consider it worthy of submission.

**Date:** 12/06/2024

**Place: Shimla**

Anjali Verma

**Anjali Verma**

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# कालिदास की रचना मेघदूत में प्रकृति चित्रण

हिमाचल प्रदेश विश्वविद्यालय

की

एम०ए० इतिहास की उपाधि

की आंशिक अभिपूर्ति हेतु प्रस्तुत लघु शोध निबन्ध

**सत्र 2022–2024**


**शोध निर्देशिका**

डॉ० अंजली वर्मा
सहायक प्रोफेसर, इतिहास विभाग
हि०प्र०, विश्वविद्यालय
समरहिल शिमला, 171005

**शोधार्थी**

निकिता चौहान
कक्षा अनुक्रमांक– 2230
परीक्षा अनुक्रमांक– 57220010024


इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)

समरहिल शिमला, 171005

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इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)

समरहिल शिमला, 171005

डॉ० अंजली वर्मा

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# प्रमाण–पत्र

प्रमाणित किया जाता है कि हिमाचल प्रदेश 'ए' ग्रेड विश्वविद्यालय शिमला की एम० ए० इतिहास की उपाधि हेतु प्रस्तुत **कालिदास की रचना मेघदूत में प्रकृति चित्रण** लघु शोध प्रबन्ध निकिता चौहान ने मेरे निर्देशन में किया है। शोध प्रबन्ध शोधार्थी का मौलिक कार्य है। यह किसी अन्य विश्वविद्यालय या संस्थान में किसी भी उपाधि के लिए प्रस्तुत नहीं किया गया है। यह एक अप्रकाशित कृति है, इसलिए इस शोध प्रबन्ध को एम०ए० इतिहास की उपाधि दिया जाना उचित है।

14/06/2024

स्थानः– शिमला

Anjali Verma

डॉ० अंजली वर्मा

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# FAIRS AND FESTIVALS OF CHAMBA

## DISSERTATION

**SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY, SUMMERHILL, SHIMLA IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE OF**

## MASTER OF ARTS
## IN
## HISTORY

**(2022-2024)**




**Submitted to:**

**Dr. Vinay Kumar Sharma**

**Submitted by:**

**Manav**

**Roll No. 2231**

**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMERHILL, SHIMLA-171005**

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**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**(NAAC Accredited 'A' Grade University)**
**SUMMER-HILL SHIMLA-171005**

*Dr. Vinay Kumar Sharma*
**Assistant Professor**

# CERTIFICATE

This is to certify that the dissertation entitled **'Fairs and Festivals of Chamba'** submitted by **Manav** in partial fulfillment of the requirements for the degree of Master of Arts in History has been carried out under my supervision and guidance.

The data reported in the dissertation is genuine and represents his original work mostly and no part of the dissertation has been submitted to any university or institution for any master degree or diploma.

In my opinion, the dissertation is worthy of consideration for the evaluation of Degree of Master of Arts in History.

**Date:** 1/7/24

**Place: Shimla**

1/7/24

**(Dr. Vinay Kumar Sharma)**

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# जुब्बल तहसील के अतंर्गत महासू देवता के जागरा उत्सव का परिचय

हिमाचल प्रदेश विश्वविद्यालय, में एम.ए. (इतिहास)
की उपाधि हेतु प्रस्तुत शोध प्रबन्ध
**2022-2024**




निर्देशक
डॉ. विनय कुमार शर्मा 26/6/24

प्रस्तुतकर्ता
हिमानी लाल्टा
अनुक्रमांक : 2232

**इतिहास विभाग**
**हिमाचल प्रदेश विश्वविद्यालय**
"राष्ट्रिय मूल्याकंन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित 'ए' ग्रेड विश्वविद्यालय"
**समरहिल, शिमला–171005 (हि0प्र0)**

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डॉ. विनय कुमार शर्मा
*सहायक आचार्य*

**इतिहास विभाग**
**हिमाचल प्रदेश विश्वविद्यालय**
"राष्ट्रिय मूल्याकंन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित 'ए' ग्रेड विश्वविद्यालय"
**समरहिल, शिमला–171005 (हि.प्र.)**

# प्रमाण–पत्र

प्रमाणित किया जाता है कि **हिमानी लाल्टा** अनुक्रमांक 2232 ने अपने एम.ए. शोध प्रबंध के लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक **"जुब्बल तहसील के अतंर्गत महासू देवता के जागरा उत्सव का परिचय"** शोध प्रबन्ध का किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्टस (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत योग्य मानता हूँ।

दिनांक : .....
स्थान : शिमला

(डॉ. विनय कुमार शर्मा)
निर्देशक

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# हाटकोटी मन्दिर का एक ऐतिहासिक सर्वेक्षण

हिमाचल प्रदेश विश्वविद्यालय, में एम.ए. (इतिहास)
की उपाधि हेतु प्रस्तुत शोध प्रबन्ध
**2022-2024**




निर्देशक
डॉ. विनय कुमार शर्मा

प्रस्तुतकर्ता
अतुल खदटा
अनुक्रमांक : 2233

**इतिहास विभाग**
**हिमाचल प्रदेश विश्वविद्यालय**
"राष्ट्रिय मूल्याकंन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित 'ए' ग्रेड विश्वविद्यालय"
**समरहिल, शिमला–171005 (हि0प्र0)**

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डॉ. विनय कुमार शर्मा
*सहायक आचार्य*

**इतिहास विभाग**
**हिमाचल प्रदेश विश्वविद्यालय**
"राष्ट्रिय मूल्याकंन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित 'ए' ग्रेड विश्वविद्यालय"
**समरहिल, शिमला–171005 (हि.प्र.)**

# प्रमाण–पत्र

प्रमाणित किया जाता है कि **अतुल खदटा** अनुक्रमांक 2233 ने अपने एम.ए. शोध प्रबंध के लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक **"हाटकोटी मन्दिर का एक ऐतिहासिक सर्वेक्षण"** शोध प्रबन्ध का किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्टस (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत योग्य मानता हूँ।

दिनांक : .....
स्थान : शिमला

(डॉ. विनय कुमार शर्मा)
निर्देशक

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# शिरगुल देवता और भंगायणी देवी का सिरमौर में ऐतिहासिक अध्ययन

हिमाचल प्रदेश विश्वविद्यालय, में एम.ए. (इतिहास)
की उपाधि हेतु प्रस्तुत शोध प्रबन्ध
**2022-2024**




निर्देशक
डॉ. विनय कुमार शर्मा

प्रस्तुतकर्ता
नितेश कुमार
अनुक्रमांक : 2235

**इतिहास विभाग**
**हिमाचल प्रदेश विश्वविद्यालय**
"राष्ट्रिय मूल्याकंन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित 'ए' ग्रेड विश्वविद्यालय"
**समरहिल, शिमला–171005 (हि0प्र0)**

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डॉ. विनय कुमार शर्मा
*सहायक आचार्य*

**इतिहास विभाग**
**हिमाचल प्रदेश विश्वविद्यालय**
"राष्ट्रिय मूल्याकंन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित 'ए' ग्रेड विश्वविद्यालय"
**समरहिल, शिमला–171005 (हि.प्र.)**

# प्रमाण–पत्र

प्रमाणित किया जाता है कि **नितेश कुमार** अनुक्रमांक 2235 ने अपने एम.ए. शोध प्रबंध के लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक **"शिरगुल देवता और भंगायणी देवी का सिरमौर में ऐतिहासिक अध्ययन"** शोध प्रबन्ध का किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्टस (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत योग्य मानता हूँ।

दिनांक : .....
स्थान : शिमला

2/7/24
(डॉ. विनय कुमार शर्मा)
निर्देशक

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# बिलासपुर के मंदिरों का इतिहास और स्थापत्य कला

हिमाचल प्रदेश विश्वविद्यालय में **एम. ए. (इतिहास)** की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

**2022-2024**


निर्देशक
डॉ. विनय कुमार शर्मा

प्रस्तुतकर्ता
मनुपमा
अनुक्रमांक- 2236

इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
समरहिल शिमला -171005


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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय शिमला

डॉ. विनय कुमार शर्मा

# प्रणाम –पत्र

प्रमाणित किया जाता है कि .**मनुपमा**, रोल नं. 2236 ने **"बिलासपुर के मंदिरों का इतिहास और स्थापत्य कला"** नामक विषय पर मेरे निर्देशन में लघुशोध – निबंध लिखा है। इनका यह कार्य मौलिक है। जहां तक मुझे जानकारी है, यह शोध– निबंध कार्य किसी भी विश्वविद्यालय में किसी उपाधि के लिए प्रस्तुत नहीं किया गया है ।

अत: मैं इस शोध - निबंध कार्य को मास्टर आफ आर्टस (इतिहास) हिमाचल प्रदेश विश्वविद्यालय, समरहिल शिमला, की उपाधि प्रदान करने हेतु प्रस्तुत किए जाने योग्य समझता हूँ।

**शोध निर्देशक**
**डॉ. विनय कुमार शर्मा** 9/7/24

**दिनांक:**

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# चम्बा व भरमौर के गद्दियों की संस्कृति और समाज

**हिमाचल प्रदेश विश्वविद्यालय समरहिल शिमला 171005**

**स्नातकोत्तर (इतिहास) उपाधि हेतु**

**प्रस्तुत लघु शोध-प्रबंध**

2022-2024


शोध निर्देशक
डॉ.विनय कुमार
(सहायक आचार्य)
इतिहास विभाग

शोधार्थी
शुभम शर्मा
एम. ए. चतुर्थ सत्र
विषय कोड 441
रोल. न. 2237



इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय


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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय समरहिल शिमला
-171005

डॉक्टर विनय कुमार
सहायक आचार्य

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# प्रमाण पत्र

प्रमाणित किया जाता है कि **भरमौर व चम्बा के गद्दियों की संस्कृति और समाज** विषयक लघु शोध प्रबंध शोधार्थी शुभम शर्मा द्वारा मेरे मार्गदर्शन मे लिखा गया है। और मेरी अधिकतम जानकारी के अनुसार यह शोध प्रबंध किसी भी विश्वविद्यालय में किसी भी उपाधि हेतु प्रस्तुत नहीं हुआ है। यह लघु शोध प्रबंध स्नातकोत्तर (एम. ए. इतिहास ,पाठ्यक्रम HIST 441) के मूल्यांकन हेतु हिमाचल प्रदेश विश्वविद्यालय को प्रस्तुत किया जाता है|

दिनांक 3/7/24

3/7/24

डॉक्टर विनय कुमार
सहायक आचार्य

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# चम्बा की गद्दी संस्कृति

हिमाचल प्रदेश विश्वविद्यालय में एम.ए. (इतिहास) की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

2022–2024


निर्देशिका
सहायक आचार्य रोशनी देवी
अनुक्रमांक

प्रस्तुतकर्ता
नूतन
2238



इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
समरहिल, शिमला–171005


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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
(एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय)
समरहिल, शिमला–171005

श्रीमती रोशनी देवी

# प्रमाण–पत्र

प्रमाणित किया जाता है कि **नूतन, अनुक्रमाक 2238** ने अपने एम.ए. शोध प्रबन्ध के लिए लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक है **"चम्बा की गद्दी संस्कृति"** शोध प्रबन्ध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ ऑटर्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानती हूँ।

**दिनांक:** 30-6-2024
**स्थान : शिमला**

Roshni

**सहायक आचार्य रोशनी देवी**
(निरीक्षक)

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# किन्नौर की संस्कृति

हिमाचल प्रदेश विश्वविद्यालय में एम.ए. (इतिहास) की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

2022–2024


निर्देशक
सहायक आचार्य रोशनी देवी
अनुक्रमांक

प्रस्तुतकर्ता
अवीशी
2239

इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
समरहिल, शिमला–171005


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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
(एनएसीसी मान्यता प्राप्त 'ए' गेड विश्वविद्यालय)
समरहिल, शिमला–171005

श्रीमती रोशनी देवी

# प्रमाण–पत्र

प्रमाणित किया जाता है कि **अवीशी, अनुक्रमाक 2239** ने अपने एम.ए. शोध प्रबन्ध के लिए लिए मेरे पर्यवक्षण में काम किया है, जिसका शीर्षक है **''किन्नौर की संस्कृति''** शोध प्रबन्ध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ ऑटर्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानती हूँ।

**दिनांक:** 26-6-2024
**स्थान : शिमला**

Roshni

**सहायक आचार्य रोशनी देवी**
(निरीक्षक)

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# PASTORAL OF HIMALAYAS: THE GADDI TRIBE A CASE STUDY

## A DISSERTATION

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY, SUMMER-HILL, SHIMLA IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE OF

## MASTER OF ARTS
## IN
## HISTORY

**(2022-2024)**


**Submitted to:**

**Roshni Devi**
**Assistant Professor**

**Submitted by:**

**Shiv Kumar**
**Roll No. 2240**



**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER-HILL, SHIMLA-171005**


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Roshni Devi
Assistant Professor

**DEPARTMENT OF HISTORY**
**HIMACHAL PRADESH UNIVERSITY**
**(NAAC Accredited 'A' Grade University)**
**SUMMER-HILL SHIMLA-171005**

# CERTIFICATE

This is to certify that the dissertation entitled **'Pastoral of Himalayas: The Gaddi Tribe A Case Study'** submitted by **Shiv Kumar** in partial fulfillment of the requirements for the degree of Master of Arts in History has been carried out under my supervision and guidance.

The data reported in the dissertation is genuine and represents his original work mostly and no part of the dissertation has been submitted to any university or institution for any master degree or diploma.

In my opinion, the dissertation is worthy of consideration for the evaluation of Degree of Master of Arts in History.

**Date:** 2-7-24

**Place: Shimla**

**(Roshni Devi)**

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# रामपुर बुशहर का अन्तर्राष्ट्रीय मेला लवी : एक अध्ययन

हिमाचल प्रदेश विश्वविद्यालय में एम.ए. (इतिहास) की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

2022–2024


निर्देशक
सहायक आचार्य रोशनी देवी
अनुक्रमांक

प्रस्तुतकर्ता
सुनीता
2241



इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
समरहिल, शिमला–171005


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**इतिहास विभाग**
**हिमाचल प्रदेश विश्वविद्यालय**
**(एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय)**
**समरहिल, शिमला–171005**

**श्रीमती रोशनी देवी .**


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# प्रमाण–पत्र

प्रमाणित किया जाता है कि **सुनीता, अनुक्रमाक 2241** ने अपने एम.ए. शोध प्रबन्ध के लिए लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक है **"रामपुर बुशहर का अन्तर्राष्ट्रीय मेला लवी: एक अध्ययन"** शोध प्रबन्ध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ ऑटर्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानती हूँ।

**दिनांक:** 26/6/2024
**स्थान : शिमला**

**सहायक आचार्य रोशनी देवी**
(निरीक्षक)

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# जम्मू और कश्मीर के धार्मिक, ऐतिहासिक एवं प्राकृतिक पर्यटन स्थलों का इतिहास

हिमाचल प्रदेश विश्वविद्यालय में एम. ए. (इतिहास) की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

**(2022-2024)**


निर्देशक :

रोशनी देवी

सहायक आचार्या

प्रस्तुतकर्ता :

शिल्पा शर्मा

अनुक्रमांक 2242

इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)

समरहिल, शिमला-171005


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इतिहास विभाग i
हिमाचल प्रदेश विश्वविद्यालय
(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)
समरहिल, शिमला, 171005

श्रीमती रोशनी देवी
सहायक आचार्या

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## प्रमाण पत्र

प्रमाणित किया जाता है कि शिल्पा शर्मा, अनुक्रमांक **2242** ने अपने एम.ए. शोध प्रबंध के लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक है "जम्मू और कश्मीर के धार्मिक, ऐतिहासिक एवं प्राकृतिक पर्यटन स्थलों का इतिहास" शोध प्रबंध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्ट्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानती हूँ।

दिनांक 21-6-24

स्थानः शिमला

श्रीमती रोशनी देवी

(निरीक्षक)

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# बिलासपुर के मेले

हिमाचल प्रदेश विश्वविद्यालय में एम. ए. (इतिहास) की उपाधि हेतु
प्रस्तुत शोध प्रबन्ध

2022 – 2024


निर्देशक
सहायक आचार्य रोशनी देवी

प्रस्तुतकर्ता
साहिल
अनुक्रमांक 2243



इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
समरहिल शिमला-171005


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## इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

(एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय

समरहिल शिमला,171005


**श्रीमती रोशनी देवी**

# प्रमाण पत्र

प्रमाणित किया जाता है कि **साहिल अनुक्रमांक 2243** ने अपने एम.ए. शोध प्रबंध के लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक है **"बिलासपुर के मेले"** शोध प्रबंध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्ट्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानती हूँ।

**दिनांक:** 21-6-2024

**स्थान: शिमला**

Rodhu

**सहायक आचार्य रोशनी देवी**

( निरीक्षक )

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# निरमण्ड क्षेत्र का सामाजिक, धार्मिक एवं सांस्कृतिक इतिहास

हिमाचल प्रदेश विश्वविद्यालय, में एम.ए. (इतिहास)
की उपाधि हेतु प्रस्तुत शोध प्रबन्ध
**2022-2024**




निर्देशक
सहायक आचार्य रोशनी देवी

प्रस्तुतकर्ता
उषा चौहान
अनुक्रमांक : 2244

इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
"राष्ट्रिय मूल्याकंन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित 'ए' ग्रेड विश्वविद्यालय"
समरहिल, शिमला–171005 (हि0प्र0)

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श्रीमती रोशनी देवी
*सहायक आचार्य*

इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
"राष्ट्रिय मूल्याकंन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित 'ए' ग्रेड विश्वविद्यालय"
समरहिल, शिमला–171005 (हि.प्र.)

# प्रमाण–पत्र

प्रमाणित किया जाता है कि **उषा चौहान** अनुक्रमांक 2244 ने अपने एम.ए. शोध प्रबंध के लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक **निरमंड क्षेत्र का सामाजिक, धार्मिक एवं सांस्कृतिक इतिहास** शोध प्रबन्ध का किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्टस (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत योग्य मानती हूँ।

दिनांक : 21-6-24
स्थान : शिमला

Rosha
सहायक आचार्य रोशनी देवी
निर्देशक

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2246

# बिलासपुर का सामाजिक व राजनीतिक इतिहास

हिमाचल प्रदेश विश्वविद्यालय में **एम. ए. (इतिहास)** की उपाधि हेतु

प्रस्तुत लघु शोध प्रबन्ध

2022-2024


शोध निर्देशक

श्री सन्नी कुमार

सहायक आचार्य

इतिहास विभाग, हिमाचल प्रदेश विश्वविद्यालय

समरहिल शिमला - 05

शोधार्थी

पूजा शर्मा

रोल नं.57220010030


इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

समरहिल शिमला -171005

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## इतिहास विभाग

## हिमाचल प्रदेश विश्वविद्यालय शिमला

**सहायक आचार्य, श्री सन्नी कुमार**

---

### प्रणाम –पत्र

यह प्रमाणित किया जाता है कि पूजा शर्मा, रोल नं. 57220010030 ने "बिलासपुर का सामाजिक व राजनीतिक इतिहास" नामक विषय पर मेरे निर्देशन में लघुशोध लिखा है। इनका यह कार्य मौलिक है। जहां तक मुझे जानकारी है, यह लघु शोध कार्य किसी भी विश्वविद्यालय में किसी उपाधि के लिए प्रस्तुत नहीं किया गया है। अत: मैं इस शोध - निबंध कार्य को मास्टर आफ आर्टस (इतिहास) हिमाचल प्रदेश विश्वविद्यालय, समरहिल शिमला, की उपाधि प्रदान करने हेतु प्रस्तुत किए जाने योग्य समझता हूँ।

**शोध निर्देशक**

**सहायक आचार्य**

**श्री सन्नी कुमार**

**दिनांक:** 21/06/2024

**जगह: शिमला**

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2247

# गिरिपार के देवी देवता संस्कृति का ऐतिहासिक अध्ययन

हिमाचल प्रदेश विश्वविद्यालय में (एम ए) इतिहास की उपाधि

हेतु शोध प्रबंध

**(2022 —2024 )**


शोध निर्देशक

प्रो सन्नी कुमार

सहायक आचार्य,इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

शोधार्थी

पवन चौहान

रोल नं .57220010028

इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय

समरहिल, शिमला-171005


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**इतिहास विभाग**
**हिमाचल प्रदेश विश्वविद्यालय**
**(एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय**
**समरहिल**
**शिमला,171005**

**प्रो.सन्नी कुमार**

---

## प्रमाण पत्र

यह प्रमाणित किया जाता है कि **पवन चौहान रोल नं. 57220010028** ने अपने एम.ए. शोध प्रबंध के लिए मेरे निर्देशन में काम किया है, जिसका शीर्षक है "**गिरिपार के देवी देवता संस्कृति का ऐतिहासिक अध्ययन** "शोध प्रबंध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ आर्ट्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानता हूँ।

दिनांक: 15/06/2024
स्थान: शिमला

**(निरिक्षक)**
**प्रो.सन्नी कुमार**
सहायक आचार्य,इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय

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# कांगड़ा जनपद का सांस्कृतिक इतिहास

हिमाचल प्रदेश विश्वविद्यालय में एम.ए. (इतिहास) की उपाधि हेतु

प्रस्तुत शोध प्रबन्ध

2022–2024




निर्देशिक
सहायक आचार्य सन्नी अटवाल
अनुक्रमांक

प्रस्तुतकर्ता
निधि गुलेरिया
2248

इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
समरहिल, शिमला–171005

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इतिहास विभाग
हिमाचल प्रदेश विश्वविद्यालय
(एनएसीसी मान्यता प्राप्त 'ए' ग्रेड विश्वविद्यालय)
समरहिल, शिमला–171005

श्री सन्नी अटवाल

# प्रमाण–पत्र

प्रमाणित किया जाता है कि **निधि गुलेरिया अनुक्रमांक 2248** ने अपने एम.ए. शोध प्रबन्ध के लिए लिए मेरे पर्यवेक्षण में काम किया है, जिसका शीर्षक है **''कांगड़ा जनपद का सांस्कृतिक इतिहास''** शोध प्रबन्ध का कोई भी भाग किसी अन्य विश्वविद्यालय या संस्थान में प्रस्तुत नहीं किया गया है। मैं इसे हिमाचल प्रदेश विश्वविद्यालय, शिमला में मास्टर ऑफ ऑटर्स (इतिहास) की डिग्री के लिए मूल्यांकन के लिए प्रस्तुत करने योग्य मानती हूँ।

दिनांकः 15/06/2024
स्थान : शिमला

सहायक आचार्य सन्नी अटवाल
निरीक्षक)

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# नगरकोट के किले का कांगड़ा रियासत में महत्व

हिमाचल प्रदेश विश्वविद्यालय शिमला

की

एम०ए० इतिहास उपाधि

की आंशिक अभिपूर्ति हेतु प्रस्तुत

## लघु शोध

सत्र - 2022-2024


शोध निर्देशक :-

श्री सनी कुमार

सहायक आचार्य, इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय शिमला

शोधार्थी :-

मनीषा कुमारी

कक्षा अनुक्रमांक - 2249

परीक्षा अनुक्रमांक - 57220010017


कला संकाय, इतिहास विभाग, हिमाचल प्रदेश विश्वविद्यालय

शिमला, समरहिल, शिमला 171005.

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# इतिहास विभाग

हिमाचल प्रदेश विश्वविद्यालय
(राष्ट्रीय मूल्यांकन एवम प्रत्यायन परिषद 'ए' ग्रेड विश्वविद्यालय)
समरहिल शिमला - 171005

श्री सनी कुमार


## प्रमाण - पत्र

प्रमाणित किया जाता है कि हिमाचल प्रदेश 'ए' ग्रेड विश्वविधालय शिमला, की एम० ए० इतिहास की उपाधि हेतु प्रस्तुत **नगरकोट के किले का कांगड़ा रियासत में महत्व** के संदर्भ में लघु शोध - प्रबंध मनीषा कुमारी ने मेरे निर्देशन में किया है। शोध प्रबंध शोधार्थी का मौलिक कार्य है। यह किसी अन्य विश्विद्यालय या संस्थान में किसी भी उपाधि के लिए प्रस्तुत नहीं किया गया है। यह एक अप्रकाशित कृति है। इसलिए इस शोध प्रबंध को एम० ए० इतिहास की उपाधि दिया जाना उचित है।

**स्थान :- शिमला**

**श्री सनी कुमार**
सहायक आचार्य, इतिहास विभाग,
हिमाचल प्रदेश विश्वविद्यालय

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2250

# NAZI AND FASCIST IDEOLOGY IN INDIAN INDEPENDENCE WITH SPECIAL REFERENCE TO SUBHAS CHANDER BOSE

**A DISSERTATION**

**SUBMITTED TO HIMACHAL PRADESH UNIVERSITY, SHIMLA**

**In Partial Fulfillment of the Requirements**

**For the Degree of**

**MASTER OF ARTS**

**IN**

**HISTORY**

**2022-2024**


**Supervised by:**

MR.SUNNY KUMAR

Asst. Professor

(Department of History)

**Submitted by:**

NIKHLESH CHANDER PARASHAR

ROLL NO: 57220010023

**DEPARTMENT OF HISTORY**

**HIMACHAL PRADESH UNIVERSITY,**

**SUMMER-HILL SHIMLA-05**


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# CERTIFICATE

This is to certify that the dissertation entitled "Nazi and Fascist Ideology In Indian Independence With Special Reference To Subhas Chandra Bose" is the record of work done by Nikhlesh Chander Parashar under my guidance and supervision to the best of my knowledge the research presented in the dissertation have not previously formed the basis for the award of any degree, diploma, or certificate of this university or any other Institute or university.

**Place**: Himachal Pradesh University,
Shimla

**Signature**: SUNNY KUMAR
(Assistant Professor)

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"2251

# SOCIAL EVILS IN SHIMLA HILL STATES WITH SPECIAL REFERENCE TO BEGAR BETH AND REET CUSTOM

## A DISSERTATION

Submitted to the Himachal Pradesh University, Shimla
in partial fulfilment of the requirements
for the Degree of

## MASTER OF ARTS
## IN
## HISTORY
(2022-24)


SUPERVISED BY:

Mr. Sunny Kumar
Assistant Professor

SUBMITTED BY:

Naresh Kumar
57220010019

DEPARTMENT OF HISTORY
HIMACHAL PRADESH UNIVERSITY,
(NAAC Accredited 'A' Grade University)
SUMMERHILL, SHIMLA - 171005


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DEPARTMENT OF HISTORY
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited 'A' Grade University)
Summerhill, Shimla- 171005

Mr. Sunny Kumar
Assistant Professor



## CERTIFICATE

This is certified that **Mr. Naresh Kumar**, Roll No. **57220010019** has worked under my supervision for his M.A. Dissertation entitled **"Social Evils in Shimla Hill States with special reference to Begar, Beth and Reet Custom"**. No part of this dissertation has been submitted in any other University or Institution for the award of any other degree. I consider it worthy to be submitted for evaluation and for the award of the degree of Master of Arts (History) in Himachal Pradesh University, Shimla.

**Date :** 15/06/2024
**Place :** Shimla

**(Supervisor)**
**Mr. Sunny Kumar**
Assistant Professor
Department of History
Himachal Pradesh University, Shimla

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**Himachal Pradesh University**
**NAAC Accredited 'A' Grade University**
**Department of Biosciences**

**Dated 10.10.2023**

The following specializations offered for project work, of M.Sc. Botany 3rd Semester have been allocated are as under:

**Ethnobotany and Biodiversity:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2249 | Aanandita Singh | Dr. Dhiraj Singh Rawat |
| 2. | 2250 | Srishti Gupta | Dr. Dhiraj Singh Rawat |
| 3. | 2251 | Ajay Kumar | Dr. Dhiraj Singh Rawat |
| 4. | 2268 | Ms. Krishka Sharma | Dr. Dhiraj Singh Rawat |

**Ethnobotany and Biodiversity:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2261 | Dipakshi Sharma | Dr. Surash Kumar |
| 2. | 2260 | Shreya | Dr. Surash Kumar |
| 3. | 2263 | Ishita | Dr. Surash Kumar |
| 4. | 2266 | Beena | Dr. Surash Kumar |

**Ethnobotany and Biodiversity:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2264 | Purva Verma | Dr. Suman Rawat |
| 2. | 2257 | Manjusha Thakur | Dr. Suman Rawat |
| 3. | 2252 | Niharika | Dr. Suman Rawat |
| 4. | 2247 | Pooja | Dr. Suman Rawat |

**Advances Topics in Mycology and Applied Microbiology:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2254 | Sneha Thakur | Dr. Amit Kumar |
| 2. | 2253 | Kajal | Dr. Amit Kumar |
| 3. | 2245 | Yashpal Singh | Dr. Amit Kumar |
| 4. | 2248 | Charul Sharma | Dr. Amit Kumar |

**Phytochemistry and Palynology of Plant Kingdom:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2267 | Sourav | Dr. Nitesh Kumar |
| 2. | 2265 | Satish Kumar | Dr. Nitesh Kumar |
| 3. | 2255 | Yamini Sharma | Dr. Nitesh Kumar |
| 4. | 2262 | Kajal Sharma | Dr. Nitesh Kumar |

Chairman
Department of Bio-Sciences
H.P. University, Shimla-5

Advances in Plant Physiology and Biochemistry:

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2242 | Bhawana Kumari | Dr. Sveta Thakur |
| 2. | 2241 | Monika Thakur | Dr. Sveta Thakur |
| 3. | 2258 | Manisha Thakur | Dr. Sveta Thakur |
| 4. | 2246 | Karina Thakur | Dr. Sveta Thakur |

Chairperson
Deptt. of Bio-Sciences,
H.P. University, Shimla-5

**Himachal Pradesh University**
**NAAC Accredited 'A' Grade University**
**Department of Biosciences**

**Dated 10.10.2023**

The following specializations offered for project work, of M.Sc. Zoology 3rd Semester have been allocated are as under:

**Advance Topics in Entomology:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2229 | Kanika Rana | Dr. Desh Raj Thakur |
| 2. | 2210 | Binakshi Bijta | Dr. Desh Raj Thakur |
| 3. | 2208 | Shivani | Dr. Desh Raj Thakur |

**Advance Topics in Entomology:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2219 | Nidhi Thakur | Dr. Mahender Singh Thakur |
| 2. | 2218 | Kasturi Nag | Dr. Mahender Singh Thakur |
| 3. | 2205 | Shruti Thakur | Dr. Mahender Singh Thakur |

**Advance Topics in Entomology:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2225 | Divya Sharma | Dr. Joginder Singh |
| 2. | 2222 | Minalini Sharma | Dr. Joginder Singh |
| 3. | 2203 | Nishant Narwal | Dr. Joginder Singh |

**Advance Topics in Entomology:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2212 | Raveena | Dr. Vikul Kumar |
| 2. | 2219 | Ritika Chaudhary | Dr. Vikul Kumar |

**Biodiversity and Wildlife:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2220 | Ritvik Thakur | Dr. R.K.Negi |
| 2. | 2215 | Kushant Chauhan | Dr. R.K.Negi |
| 3. | 2206 | Yanjan Sharma | Dr. R.K.Negi |

**Fish and Fisheries:**

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2224 | Priya Sharma | Dr. H.S.Banyal |
| 2. | 2223 | Sadhana Thakur | Dr. H.S.Banyal |
| 3. | 2207 | Priyanka | Dr. H.S.Banyal |

Chairman
Department of Bio-Sciences
H.P. University, Shimla-5

## Cytogenetics:

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2211 | Arooshi Sharma | Dr. Meena Kumari |
| 2. | 2227 | Akanksha | Dr. Meena Kumari |
| 3. | 2202 | Anjali Choudhary | Dr. Meena Kumari |

## Molecular Physiology:

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2213 | Khushi Sharma | Dr. Rajesh Kumar |
| 2. | 2200 | Bhanu Priya | Dr. Rajesh Kumar |
| 3. | 2216 | Kirti Sharma | Dr. Rajesh Kumar |

## Parasitology:

| Sr. No. | Class Roll No. | Name of Student | Name of Supervisor |
|---|---|---|---|
| 1. | 2217 | Kavya Sharma | Dr. Neelam Kumari |
| 2. | 2221 | Ankit Azad | Dr. Neelam Kumari |
| 3. | 2216 | Santosh Kumar | Dr. Neelam Kumari |

Chairman
Department of Zoology
H.P. University, Shimla-5

**URGENT**

**Himachal Pradesh University**
**NAAC Accredited 'A' Grade University**
**Department of Biosciences**

**Dated 08.07.2024**

## NOTICE

All the M.Sc. (Botany & Zoology) 4th Semester students are hereby directed to submit their Project Report up to 31st July 2024. In this context evaluation of project work through Viva-Voce examination by a board of faculty members will take place on 1st & 2nd August, 2024.

**Dr. H.S. Banyal**
**Chairperson**

Chairperson
Deptt. of Bio-Sciences,
H.P. University, Shimla-5

**Himachal Pradesh University**
**NAAC Accredited 'A' Grade University**
**Department of Biosciences**

**OFFICE ORDER** **Dated 08.07.2024**

A board of following faculty members has been constituted to evaluate Project Work of the M.Sc. (Botany & Zoology) 4th Semester students:

## *M.Sc. Botany*

1. Prof. D.R. Thakur
2. Dr. Dhiraj Singh Rawat
3. Dr. Suresh Kumar
4. Dr. Amit Kumar

## *M.Sc. Zoology*

1. Prof. D.R. Thakur
2. Dr. R.K. Negi
3. Dr. Meena Kumari
4. Dr. Mahender Singh Thakur

**Dr. H.S, Banyal**
**Chairperson**

No.

Date: 31.7.2024

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Important Ethnomedicinal Plants of village Patta"** is the result of investigations carried out by Aanandita Singh [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by his/her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor Sign)**

No.

Date: 31.7.2024

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Important ethnomedicinal plants of village Drober District Bilaspur"** is the result of investigations carried out by Ajay Kumar [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by his in the Department. Moreover, this work has not been submitted by his for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor Sign)**

**Dr. Suresh Kumar**
Associate Professor (Botany)
Contact: 7018982600
Office: 0177-2830946
Email: shahriask@gmail.com

**Department of Biosciences**
(UGC-SAP, DRS-II & DST-FIST Sponsored)
Himachal Pradesh University
*NAAC-Accredited 'A' Grade University*
Summer Hill, Shimla-171005

No. .....
Date: 31/07/2024....

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"INDIAN HERBS USED FOR REPRODUCTIVE DISORDERS"** is the result of investigations carried out by Ms. Beena Devi [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of Master's Degree in Botany. Moreover, this is the original work which has not been submitted by her for the award of degree from any other institution to the best of my knowledge and belief.

**Supervisor's Signature**

**July 31, 2024**

No. ...79.2200.10004.

Date: 31/07/24.....

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Physiological responses of some common cultivars of *Triticum aestivum* L. to surplus lead supply"** is the result of investigations carried out by Bhawna Kumari [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor Sign)**

**DR. AMIT K. SEHGAL**
M. Sc., M. Phil.,
Ph. D. (Botany)
Assistant Professor




**DEPARTMENT OF BIO-SCIENCES**
HIMACHAL PRADESH UNIVERSITY
[NAAC Accredited "A" Grade University]
Summer Hill Shimla - 171005 (HP)

# CERTIFICATE

This is to certify that the matter embodied in the M. Sc. Project Report entitled **'Evaluation of Phytochemicals, Antibacterial and Antioxidant Activities of *Smilax Aspera* and *Valeriana Jatamansi*'** is the result of investigations carried out by **Miss. Charul Sharma (Batch 2022-2024)** under my direct supervision and guidance. The content of the project Report is being submitted to the Department of Bio-Sciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

Place: Summer Hill

Date: 31.07.2024

**(Amit Kumar Sehgal)**

Dr. Suresh Kumar
Associate Professor (Botany)
Contact: 7018982600
Office: 0177-2830946
Email: shahriask@gmail.com

Department of Bioscience
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Himachal Pradesh University
*NAAC-Accredited 'A' Grade University*
Summer Hill, Shimla-171005

No. .....
Date: 31/07/2024...

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"ETHNOBOTANICAL SURVEY OF KOTKHAI TEHSIL, DISTRICT SHIMLA, HIMACHAL PRADESH"** is the result of investigations carried out by **Ms. Dipakshi Sharma [Batch 2022-2024]** under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of Master's Degree in Botany. Moreover, this is the original work which has not been submitted by her for the award of degree from any other institution to the best of my knowledge and belief.

**July 31, 2024**

**Supervisor's Signature**

Dr. Suresh Kumar
Associate Professor (Botany)
Contact: 7018982600
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Himachal Pradesh University
*NAAC-Accredited 'A' Grade University*
Summer Hill, Shimla-171005

No. .....
Date: 31/07/2024.....

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Ethnomedicinal Exploration of Plant Resources in Dhauladhar Range of Kangra Valley, Himachal Pradesh, India"** is the result of investigations carried out by Ms. Ishita [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of Master's Degree in Botany. Moreover, this is the original work which has not been submitted by her for the award of degree from any other institution to the best of my knowledge and belief.

**Supervisor's Signature**

**July 31, 2024**

**DR. AMIT K. SEHGAL**
M. Sc., M. Phil.,
Ph. D. (Botany)
Assistant Professor

**DEPARTMENT OF BIO-SCIENCES**
HIMACHAL PRADESH UNIVERSITY
[NAAC Accredited "A" Grade University]
Summer Hill Shimla - 171005 (HP)

# CERTIFICATE

This is to certify that the matter embodied in the M. Sc. Project Report entitled **'Studies on Antibacterial, Antioxidant Activities and Phytochemical Constituents of Two Selected Medicinal Plants'** is the result of investigations carried out by **Miss. Kajal (Batch 2022-2024)** under my direct supervision and guidance. The content of the project Report is being submitted to the Department of Bio-Sciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

Place: Summer Hill

Date: 31.07.2024

**(Amit Kumar Sehgal)**

**Dr. Nitesh Kumar**
**Assistant Professor**
**Contact: 7876042204**
**E-mail: niteshchauhan7@gmail.com**

**Department of Bioscience**
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**Netaji Subhash Chander Bhawan,**
**Gyan Path, Summer Hill, Shimla-171005**
**www.hpuniv.ac.in**

**Biosci. No. .....**

**Date:** 31/07/2024

## CERTIFICATE

This is to certify that the research project entitled "**Studies on Pollen Morphology of Some Members from Families Asteraceae, Rutaceae and Solanaceae of North Western Himalayan Region of H.P.**" submitted by **Miss Kajal Sharma (Roll No. 79220010009)** in partial fulfilment of the requirement for the award of the degree of "**Master of Science (M.Sc.) in Botany**" under my guidance. She has compiled this document though experimental work in the lab and with the help of published literature available in the books from the library/internet and other sources. Further to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution.

I wish her all success for her future endeavors.

31/07/2024

**Dr. Nitesh Kumar**
**(Project Supervisor)**

No. 7922.001.0010...

Date: 31-07-2024..

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Physiological responses of some common cultivars of *Triticum aestivum* L. to surplus Aluminium supply"** is the result of investigations carried out by Karina Thakur [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor Sign)**

# DEPARTMENT OF BIOSCIENCES

**HIMACHAL PRADESH UNIVERSITY**

**NAAC ACCREDITED 'A' GRADE UNIVERSITY**

**SUMMER HILL, SHIMLA-171005 (H.P.), INDIA**

*Dr. Dhiraj S. Rawat*


**No. .....**

**Date:** 31.7.2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Important Ethnomedicinal Plants Of Village Bhiambi, District Una, H.P"** is the result of investigations carried out by (**Krishka Sharma**) [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor Sign)**

No. .....

Date..31-07-2024.

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Physiological responses of some common cultivars of Triticum aestivum L. To surplus mercury supply"** is the result of investigations carried out by MANISHA THAKUR [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology/Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor Sign)**

**Roll No.: 22790010013**

Date: 31/07/2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **ETHNOBOTANICAL STUDIES ON NAGGAR REGION OF DISTRICT KULLU, HIMACHAL PRADESH, INDIA** is the result of investigations carried out by **MANJUSHA THAKUR** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

[Supervisor sign]

Student sign

Manjusha

[Supervisor Sign]

31/07/24

**No. .....**

**Date: .....**

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Physiological responses of some common cultivars of *Triticum aestivum* L. to surplus Cadmium supply"** is the result of investigations carried out by Monika Thakur [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor Sign)**

No. .....

Date: .....

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"ETHNOBOTANICAL STUDIES ON LOCAL PLANT DIVERSITY OF BADGAON REGION, DISTRICT BILASPUR, HIMACHAL PRADESH, INDIA"** is the result of investigations carried out by **Ms. NIHARIKA** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla, for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

31/07/24

**(Supervisor's Signature)**

No. .....  Date: .....

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Ethnobotanical Studies on Bagra Thach Region of Seraj Valley, Tehsil Thunag, District Mandi (H.P.), India"** is the result of investigations carried out by (POOJA) [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

Pooja
(Student Signature)

31/07/24
**(Supervisor Signature)**

Roll No. 7922001017 Date: 31/07/2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"ETHNOBOTANICAL STUDY OF THEOG REGION, DISTRICT SHIMLA, HIMACHAL PRADESH, INDIA"** is the result of investigations carried out by **Ms. Purva Verma** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla, for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

31/07/24

**(Supervisor's Signature)**

Dr. Nitesh Kumar
Assistant Professor (Botany)
Mob. No. 7876042204
Email" niteshchauhan7@gmail.com

Department of Biosciences
Himachal Pradesh University
*NAAC- Accredited 'A' Grade University*
Netaji Subhash Shander Bhawan,
Gyan Path Summer Hill, Shimla-171005
www.hpuniv.ac.in

Biosci. No.....
Date :..29/07/2024.....

# *CERTIFICATE*

This is to certify that the research project entitled "**Allelopathic potential and phytochemical screening of medicinal plant *Urtica dioica* L. of sub tehsil Kataula, district Mandi, Himachal Pradesh**" on growth parameters of certain oil yielding crops and phytochemical screening of different parts of the plant submitted by the **Mr. Satish Kumar [ Batch 2022-2024]** in partial fulfilment of the requirement for the award of the degree of "**Master of science (M.Sc.) in Botany**" under my guidance. He has compiled this document through experimental work in lab and with the help of published literature available in the books, research publication, review articles, from the library/internet and other sources. Further to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution.

I wish him all success for his future endeavors.

29/07/2024

**Dr. Nitesh Kumar**

**(Project Supervisor)**

**Dr. Nitesh Kumar**
**Assistant Professor**
**Contact: 7876042204**
**E-mail: niteshchauhan7@gmail.com**

**Department of Bioscience**
**(UGC-SAP.DRS-II & DST-FIST Sponsored)**
**Himachal Pradesh University**
***NAAC-Accredited 'A' Grade University***
**Netaji Subhash Chander Bhawan,**
**Gyan Path, Summer Hill, Shimla-171005**
**www.hpuniv.ac.in**

**Biosci. No. .....**

**Date: ..31/07/2024....**

## CERTIFICATE

This is to certify that the research project entitled "**Antihelminthic Potential of some Plants from Tehsil Palampur, District Kangra and their Phytochemical Analysis**" on growth parameters of certain oil yielding crops and phytochemical screening of different parts of the plant submitted by the **Mr. Saurav (Roll No. 79220010019)** in partial fulfilment of the requirement for the award of the degree of "**Master of science (M.Sc.) in Botany**" under my guidance. He has compiled this document though experimental work in lab and with the help of published literature available in the books from the library/internet and other sources. Further to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution.

I wish him all success for his future endeavors.

31/07/2024

**Dr. Nitesh Kumar**

Dr. Suresh Kumar
Associate Professor (Botany)
Contact: 7018982600
Office: 0177-2830946
Email: shahriask@gmail.com

Department of Bioscience
(UGC-SAP, DRS-II & DST-FIST Sponsored)
Himachal Pradesh University
*NAAC-Accredited 'A' Grade University*
Summer Hill, Shimla-171005

No. .....
Date: 31/07/2024

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"STUDIES ON THE ETHNOBOTANY OF TEHSIL BALH, DISTRICT MANDI, HIMACHAL PRADESH, INDIA"** is the result of investigations carried out by Ms. Shreya [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of Master's Degree in Botany. Moreover, this is the original work which has not been submitted by her for the award of degree from any other institution to the best of my knowledge and belief.

**July 31, 2024**

**Supervisor's Signature**

**DR. AMIT K. SEHGAL**
M. Sc., M. Phil.,
Ph. D. (Botany)
Assistant Professor

**DEPARTMENT OF BIO-SCIENCES**
HIMACHAL PRADESH UNIVERSITY
[NAAC Accredited "A" Grade University]
Summer Hill Shimla - 171005 (HP)

# CERTIFICATE

This is to certify that the matter embodied in the M. Sc. Project Report entitled **'Evaluation of Medicinal Potential of *Podophyllum Hexandrum* and *Trillium Govanianum* Collected from District Chamba (H.P.)'** is the result of investigations carried out by **Miss. Sneha Thakur (Batch 2022-2024)** under my direct supervision and guidance. The content of the project Report is being submitted to the Department of Bio-Sciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

Place: Summer Hill

Date: 31.07.2024

**(Amit Kumar Sehgal)**

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Studies on Ethnomedicinal Plants of Tehsil Chopal District Shimla (H.P)"** is the result of investigations carried out by Srishti Gupta [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

31.7.24

**(Supervisor Sign)**

**Dr. Nitesh Kumar**
**Assistant Professor**
**Contact: 7876042204**
**E-mail: niteshchauhan7@gmail.com**

**Department of Bioscience**
**(UGC-SAP.DRS-II & DST-FIST Sponsored)**
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***NAAC-Accredited 'A' Grade University***
**Netaji Subhash Chander Bhawan,**
**Gyan Path, Summer Hill, Shimla-171005**
**www.hpuniv.ac.in**

**Biosci. No. .....**

**Date:** 31/07/2024

## CERTIFICATE

This is to certify that the research project entitled **"Seasonal variation of algal diversity in relation to physico-chemical parameters in Neugal and Pun stream of Kangra district Himachal Pradesh, India"** submitted by the **Ms. Yamini Sharma (Roll No. 79220010023)** in partial fulfilment of the requirement for the award of the degree of "**Master of Science (M.Sc.) in Botany**" under my guidance. She has compiled this document through experimental work in lab and with the help of published literature available in the books from the library/internet and other sources. Further to the best of my knowledge and belief, this document has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution.

I wish her all success in her future endeavors.

**Dr. Nitesh Kumar**
31/07/2024
**(Project supervisor)**

**DR. AMIT K. SEHGAL**
*M. Sc., M. Phil.,*
*Ph. D. (Botany)*
*Assistant Professor*

**DEPARTMENT OF BIO-SCIENCES**
HIMACHAL PRADESH UNIVERSITY
[NAAC Accredited "A" Grade University]
Summer Hill Shimla - 171005 (HP)

# CERTIFICATE

This is to certify that the matter embodied in the M. Sc. Project Report entitled **'Studies on Antibacterial, Antioxidant Activities and Phytochemical Analysis of Two Species of Genus *Rubus* L.'** is the result of investigations carried out by **Mr. Yashpal Singh (Batch 2022-2024)** under my direct supervision and guidance. The content of the project Report is being submitted to the Department of Bio-Sciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

Place: Summer Hill

Date: 31.07.2024

**(Amit Kumar Sehgal)**

**Dr. Meena Kumari**
Associate Professor




**DEPARTMENT OF BIOSCIENCES**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER HILL, SHIMLA-171005**
**INDIA**

**Date:** 30 July, 2024

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"A STUDY ON THE GENE FREQUENCIES OF BLOOD GROUP ALLELS IN A POPULATION FROM TIHRA AREA OF HIMACHAL PRADESH"** is the result of investigations carried out by AKANKSHA [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology/Botany contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Meena Kumari)**

**Dr. Meena Kumari**
Associate Professor

**DEPARTMENT OF BIOSCIENCES**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER HILL, SHIMLA-171005**
**INDIA**

**DATE** 30 July, 2024

## CERTIFICATE

This is to certify that the matter embodied in the M.sc. Project Report entitled "**A study on the gene frequencies of blood group alleles in a population from the Sadwan area of Kangra District of Himachal Pradesh** " is the result of investigation carried out by **Miss. Anjali Choudhary** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the department of Biosciences under the faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of degree from any other institution to the best of my knowledge and belief.

**(Meena Kumari)**

Date: 30-7-2024

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Biodiversity of Coccinellidae (Coleoptera) in Theog region of Shimla district (Himachal Pradesh)."** is the result of investigations carried out by (Ankita Azad) [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by his/her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

Neelam

**(Supervisor Sign)**

Dr. Neelam Kumari

**Dr. Meena Kumari**
Associate Professor

**DEPARTMENT OF BIOSCIENCES**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER HILL, SHIMLA-171005**
**INDIA**

**DATE.** 30., July, 2024.

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. The project Report, "A study on the gene frequencies of blood group alleles in a population from the central armed hospital, Jatusana Riwari, Haryana" is the result of investigations by **Miss. Arooshi Sharma** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Meena Kumari)**

**Dr. Rajesh Kumar**
**Assistant Professor**
*Fellow Himalayan Science and Technology Communications*
**Contact: 0177-2830946 (O)**
**Mb.: 9805430493 (Mb)**
**E mail: rkbios@hpuniv.ac.in**

**Department of Bioscience**
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**Gyan Path, Summer Hill, Shimla-171005**
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**Biosci. No.** Bios/AP/24/01

**Date:** 05 July 2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. thesis entitled **"Preparation of Vermiwash Using Sugarcane Waste and Its Nutritional Characterization"** is the result of investigations carried out by **Miss. Bhanu Priya** [Batch 2022-2024] under my direct supervision and guidance. The content of the dissertation is being submitted to the faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her at the Department of Biosciences, Himachal Pradesh University, Shimla. Moreover, this work has not been submitted by her for the award of a degree or diploma from any other institution to the best of my knowledge and belief.

**(Rajesh Kumar)**

Dr. Rajesh Kumar
Assistant Professor
Dept. of Biosciences
Himachal Pradesh University, Shimla (H.P.)

# CERTIFICATE

This is to certify that the matter embodied in the M. Sc. Project Report entitled "**Biopesticidal efficacy of *Citrus pseudolimon* Tanaka against *Acanthoscelides obtectus* Say (Coleoptera:Chrysomelidae)**" is the result of the investigations carried out by **Binakshi Bijta** [Batch 2022-2024] under my supervision and guidance. The content of the project report, being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology, contains original work done by her in the department. This work has not been submitted by her for the award from any other institute/university. To the best of my knowledge and belief, Ms. Binakshi Bijta has a good moral character and I wish all the best in her life.

**(Supervisor Sign)**

Dr. Joginder Singh,
Department of Bio-Sciences,
Himachal Pradesh University,
Summer Hill, Shimla, India-171005

Phone: 0177-2833750 (O)
9418527197 (M)
Email: joginderrilta516@gmail.com
drjsbios@hpuniv.ac.in

NAAC Accredited "A" Grade University, Established 1970

No.....

Date 31/07/24

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"DIVERSITY AND ABUNDANCE OF ANTS FROM TEHSIL NERWA OF DISTRICT SHIMLA, HIMACHAL PRADESH"** is the result of investigations carried out by Miss Divya Sharma [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Bio-Sciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor)**

**Dr. Joginder Singh**
**Assistant Professor**
**Department of Bio-Sciences**
**Himachal Pradesh University**
**Summer Hill, Shimla**

PRESS

FREELANCE JOURNALIST (ISWA)

**Dr. D.R. Thakur**
Professor of Zoology
Department of Biosciences
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Ph. 0177-2833697 (O), 094184-80248 (M)
E-mail: drdr4@rediffmail.com

**No.** .....

**Date:** 31.07.24.....

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"STUDIES ON AVIFAUNA OF HIMACHAL PRADESH UNIVERSITY, SUMMER HILL, SHIMLA (H.P.)"** is the result of investigations carried out by **Ms. Kanika Rana** [Batch 2022-2024] under my supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of degree of Masters of Sciences in Zoology and contains original work done by her in the Department. This work has not been submitted by her from any other institute/university to the best of my knowledge and belief. Ms. Kanika Rana has good moral character and I wish her all the best in the life.

**(D.R. Thakur)**
**(Supervisor)**

**Mahender Singh Thakur**
M. Sc., M. Phil., Ph. D.

DEPARTMENT OF BIOSCIENCES
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**Date: 1 August 2024**

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"STUDIES ON DIVERSITY, DISTRIBUTION AND RELATIVE ABUNDANCE OF INSECT POLLINATORS ON *Taraxacum officinale* F.H. WIGG IN DIFFERENT AREA OF SHIMLA, HIMACHAL PRADESH"** is the result of investigations carried out by (Kasturi Nag) [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology/Botany contains original work done by his/her in the Department. Moreover, this work has not been submitted by his/her for the award of a degree from any other institution to the best of my knowledge and belief.

Date: 31/August/2024
Place: Shimla

**(MAHENDER SINGH THAKUR)**
Research Supervisor

**Dr. Neelam Kumari**
Assistant Professor

**DEPARTMENT OF BIOSCIENCES**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER HILL, SHIMLA-171005**
**INDIA**

**Date:** 30-7-2024.

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"IMPACT OF BIO-PESTICIDES ON TEA CROP AT PALAMPUR, DISTT. KANGRA, (H.P.): A REVIEW"** is the result of investigations carried out by **Kavya Sharma** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

Dr. Neelam Kumari

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**Assistant Professor**
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**www.hpuniv.ac.in**

**Biosci. No.** Bio/AP/24/03

**Date:** 22.07.2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Exploring the Nutritional Benefits of Herb-infused Honey: A Comprehensive Analysis of Its Physicochemical, Antimicrobial and Antioxidant Properties"** is the result of investigations carried out by **Miss Khushi Sharma** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her at the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

RKumar

**(Rajesh Kumar)**

Dr. Rajesh Kumar
Assistant Professor
Dept. of Biosciences
Himachal Pradesh University, Shimla (H.P.)

**Dr. Rajesh Kumar**
**Assistant Professor**
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**www.hpuniv.ac.in**

**Biosci. No.** Bios/AP/24/02

**Date:** ...22.07.2024.....

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"COMPARATIVE ANALYSIS OF PHYSIOCHEMICAL AND BIOLOGICAL PROPERTIES OF HONEY FROM THREE DIFFERENT HONEY BEE SPECIES IN LESSER HIMALAYAYAN RANGE"** is the result of investigations carried out by **Miss Kirti Sharma** [Batch 2022-2024] under my direct supervision and guidance. The content of the dissertation is being submitted to the Department of Biosciences under the faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

R Kumar

**(Rajesh Kumar)**

**Dr. Rajesh Kumar**
**Assistant Professor**
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**Biosci. No. .....**

**Date: .....**

## CERTIFICATE

This is to certify that the report entitled **"A Preliminary Study on Avifaunal Diversity of Daranghati Wildlife Sanctuary, Rampur Bushahr Shimla, Himachal Pradesh, India"** embodies the result of original investigations carried out by **Mr. Kushant Chauhan** [Batch 2022-2024] under my direct supervision and guidance. The project report is being submitted to the Department of Bio-Sciences under the faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of Master Degree in Zoology. This work has not been submitted in part or in full for the award of any degree to this or any other institution to the best of my knowledge and information, therefore is worthy of consideration for the award of degree of master of zoology in the faculty of Life Sciences of Himachal Pradesh University, Shimla.

**(Rakesh Kumar Negi)**

Dr. Rakesh Kumar Negi
Associate Professor
Department of Bio-Sciences
H.P. University, Shimla-5

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No.....

Date. 31/07/24

# CERTIFICATE

This is to certify that the matter embodied in the M. Sc. Project Report entitled **"DIVERSITY AND ABUNDANCE OF ANTS FROM TEHSIL SALOONI OF DISTRICT CHAMBA, HIMACHAL PRADESH"** is the result of investigations carried out by Miss Minalini Sharma [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Dr. Joginder Singh)**

**Dr. Mahender Singh Thakur**
**Associate Professor**
**MSc., M.Phil., Ph.D.**
**Specialisation: Biodiversity, Entomology and Molecular Taxonomy**

**Department of Bioscience**
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**Biosci. No. .....**

**Date:** 31.07.2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"STUDIES ON DIVERSITY, DISTRIBUTION AND RELATIVE ABUNDANCE OF INSECT POLLINATORS ON *Rubus ellipticus* Sm. IN DIFFERENT AREAS OF SHIMLA"** is the result of investigations carried out by **Miss Nidhi Thakur** [Batch 2022-2024] under my direct supervision and guidance. The content of the dissertation is being submitted to the Department of Biosciences under the faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Mahender Singh Thakur)**

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Email: joginderrilta516@gmail.com
drjsbios@hpuniv.ac.in



No.....

Date. 31/07/24

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"DIVERSITY AND ABUNDANCE OF ANTS IN TEHSIL SHIMLA RURAL OF DISTRICT SHIMLA, HIMACHAL PRADESH"** is the result of investigations carried out by Mr. Nishant Narwal [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Bio-Sciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by him in the Department. Moreover, this work has not been submitted by him for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor)**

**Dr. Joginder Singh**
**Assistant Professor**
**Department of Bio-Sciences**
**Himachal Pradesh University**
**Summer Hill, Shimla**

No. .....

Date: 31/07/2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Evaluation of Impact of Environmental Variables on Ichthyofaunal Diversity of Ashwani stream, Solan, Northwestern Himalayas"** is the result of investigations carried out by **Priya Sharma** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor Sign)**

No. .....

Date: 31/07/2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled – **"Preliminary studies on Plankton Diversty in relation to Fish Diversity of Ashwani stream, Solan, Himachal Pradesh, India"** is the result of investigations carried out by **Priyanka Kumari** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences, under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

HB Sanyal

**(Supervisor sign)**

No. .....

Date: ..31.-07.-2024

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled "Traditional through *Apis cerana* F. and the factors responsible for its disappearance from Himachal Pradesh" is the result of investigations carried out by Ms, Raveena [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology/Botany contains original work done by his/her in the Department. Moreover, this work has not been submitted by his/her for the award of a degree from any other institution to the best of my knowledge and belief.

31/7/2024

**(Supervisor Sign)**

No. .....

Date: ..३१..०७..२०२४

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Beekeeping through *Apis mellifera* in Himachal Pradesh and the Factors affecting its distribution"** is the result of investigations carried out by **Miss. Ritika Chaudhary** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology/Botany contains original work done by his/her in the Department. Moreover, this work has not been submitted by his/her for the award of a degree from any other institution to the best of my knowledge and belief.

31/7/2024

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www.hpuniv.ac.in

No. .....

Date: .....

## CERTIFICATE

This is to certify that the report entitled **"A Preliminary study on Avian and Mammalian Diversity in Gamgul-Siyabehi Wildlife Sanctuary, District Chamba, Himachal Pradesh, India"** embodies the result of original investigations carried out by **Mr. Ritvik Thakur** [Batch 2022-2024] under my direct supervision and guidance. The project report is being submitted to the Department of Bio-Sciences under the faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of Master Degree in Zoology. This work has not been submitted in part or in full for the award of any degree to this or any other institution to the best of my knowledge and information, therefore is worthy of consideration for the award of degree of master of zoology in the faculty of Life Sciences of Himachal Pradesh University, Shimla.

(Rakesh Kumar Negi)

Dr. Rakesh Kumar Negi
Associate Professor
Department of Bio-Sciences
H.P. University, Shimla-5

No. .....

Date: ....31-07-2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"ECOLOGY OF FISH FAUNAL DIVERSITY IN PARVATI STREAM, KULLU DISTRICT, HIMACHAL PRADESH, INDIA"** is the result of investigations carried out by **Sadhana Thakur** under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Supervisor Sign)**

**Dr. Neelam Kumari**
Assistant Professor

**DEPARTMENT OF BIOSCIENCES**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMER HILL, SHIMLA-171005**
**INDIA**

**Date:** 30-7-2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"Diversity of agriculture pest in Hamirpur region of Himachal Pradesh"** is the result of investigations carried out by (Santosh Kumar) [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by his in the Department. Moreover, this work has not been submitted by his/her for the award of a degree from any other institution to the best of my knowledge and belief.

Neelam

**Dr. Neelam Kumari**

PRESS

FREELANCE JOURNALIST (ISWA)

**Dr. D.R. Thakur**
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E-mail: drdr4@rediffmail.com

**No.** .....

**Date:** 31-07-24

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"FAUNAL DIVERSITY OF COCCINELLIDAE LATEREILLE (1807) [INSECTA: COLEOPTERA] OF SUMMERHILL, SHIMLA, HIMACHAL PRADESH"** is the result of investigations carried out by **Ms. Shivani** [Batch 2022-2024] under my supervision and guidance. The content of the project report is being submitted to the Department of Biosciences under the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of Degree of Master of Sciences in Zoology and contains original work done by her in the Department. This work has not been submitted by her from any other institute/ university to the best of my knowledge and belief. Ms. Shivani has good moral character and I wish her all the best in the life.

**(D.R. Thakur)**
**(Supervisor)**

**Dr. Mahender Singh Thakur**
**Associate Professor**
**MSc., M.Phil., Ph.D.**
**Specialisation: Biodiversity, Entomology and Molecular Taxonomy**



**Department of Bioscience**
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**Gyan Path, Summer Hill, Shimla-171005**
**www.hpuniv.ac.in**

**Biosci. No. .....**

**Date:** 31.07.2024

## CERTIFICATE

This is to certify that the matter embodied in the M.Sc. Project Report entitled **"STUDIES ON DIVERSITY, DISTRIBUTION AND RELATIVE ABUNDANCE OF INSECT POLLINATORS ON *Pyrus pashia* Buch.-Ham. ex D.Don. IN DIFFERENT AREAS OF SHIMLA"** is the result of investigations carried out by **Miss Shruti Thakur** [Batch 2022-2024] under my direct supervision and guidance. The content of the dissertation is being submitted to the Department of Biosciences under the faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of a Master's Degree in Zoology contains original work done by her in the Department. Moreover, this work has not been submitted by her for the award of a degree from any other institution to the best of my knowledge and belief.

**(Mahender Singh Thakur)**

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**Biosci. No. .....**

**Date: .....**

# CERTIFICATE

This is to certify that the report entitled **"A Preliminary Study on the Avifaunal Diversity of Tehsil Karsog in Mandi District, Himachal Pradesh, India"** embodies the result of original investigations carried out by **Mr. Yanjan Kumar Sharma** [Batch 2022-2024] under my direct supervision and guidance. The content of the project report is being submitted to the Department of Bio-Sciences under the faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of Master Degree in Zoology. Further, this work has not been submitted in part or in full for the award of any degree to this or any other institution to the best of my knowledge and information, therefore is worthy of consideration for the award of degree of master of zoology in the faculty of Life Sciences of Himachal Pradesh University, Shimla.

**(Dr. Rakesh Kumar Negi)**

Dr. Rakesh Kumar Negi
Associate Professor
Department of Bio-Sciences
H.P. University, Shimla-5

**Curricular Aspects**

**1.3.4 List of students undertaking field projects / research projects / internships (2023-24)**

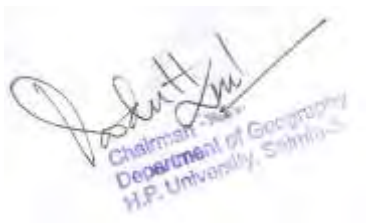
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| List of the students of M.A. 4th Semester Students going on field survey w.e.f. 14/5/24 to 17/5/24 (HPU Shimla to Deedag, Rajgarh, Distt. Sirmaour H.P.) | | | | |
|---|---|---|---|---|
| **Sr.No.** | **Class Roll No.** | **Examination Roll No.** | **Name of Candidate** | **Mobile Number** |
| 1 | **1987** | 54220010001 | Aditi | 7018453762 |
| 2 | **1992** | 54220010002 | Amit Chauhan | 9805246031 |
| 3 | **5073** | 54220010003 | Ashish Kumar Sharma | 8219482969 |
| 4 | **1989** | 54220010004 | Bharti Thakur | 7876463581 |
| 5 | **1976** | 54220010005 | Bhuvneshwari | 7876047810 |
| 6 | **5074** | 54220010006 | Lavnya Sood | 7018101186 |
| 7 | **1990** | 54220010007 | Madhu Chauhan | 8626988871 |
| 8 | **5075** | 54220010008 | Mahima Verma | 7807204482 |
| 9 | **1981** | 54220010009 | Mamta Kumari | 7876795415 |
| 10 | **1967** | 54220010010 | Muskan | 8278836561 |
| 11 | **1965** | 54220010011 | Nikhil Chandel | 7876159004 |
| 12 | **1984** | 54220010012 | Nitika | 7018156721 |
| 13 | **5076** | 54220010014 | Pankaj Thakur | 9736710450 |
| 14 | **1977** | 54220010015 | Pooja Chauahn | 6230494849 |
| **15** | **5072** | 54220010016 | Pooja Kashyap | 7807110092 |
| 16 | **1975** | 54220010017 | Punit (EWS) | 8580487055 |
| 17 | **5078** | 54220010018 | Rakhi Bansal | 8278777107 |
| 18 | **5077** | 54220010019 | Rakshit Kumar Sharma | 9877510133 |
| 19 | **1966** | 54220010020 | Reeta | 7876794971 |
| 20 | **1988** | 54220010021 | Riya Bhatt | 7876294340 |
| 21 | **1969** | 54220010022 | Shilpa | 7876286872 |
| 22 | **1979** | 54220010023 | Shilpa Thakur | 6230284341 |
| 23 | **5079** | 54220010024 | Shivani Thakur | 8580882994 |
| 24 | **1973** | 54220010025 | Sneh Lata | 8278712810 |
| 25 | **1964** | 54220010026 | Sunandini Thakur | 9015438416 |
| **26** | **1991** | 54220010027 | Vaidehi Sharma | 7876008721 |
| | **1968** | 54220010028 | Vikas Thakur | 8278792348 |

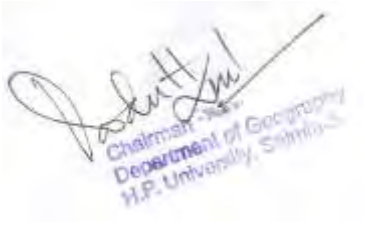


No.1-39/2024-25/HPU(Geog.)
(NAAC accredited "A" Grade University)
**Department of Geography**
H.P. University, Shimla-5

6th May, 2024

# NOTICE

The Field survey of M.A. 4th Semester students has been scheduled to Deedag, Tehsil Rajgarh, Distt. Sirmaur (H.P.) w.e.f. 14th May, 2024 to 18th May, 2024. This is a compulsory part of syllabus consisting of 100 Marks (GEOG-404). The undersigned is Course Incharge and will be accompanying the class. The concerned students are directed to make the necessary arrangements and obtain parental consent for the same.




**Chairman**
**Dept. of Geography**
**H.P.U. Shimla-5**

# MARKET SURVEY OF DEEDAG, NOHRADHAR AND CHURWADHAR TEHSIL RAJGARH DISTRICT SIRMOUR (H.P.)

**A PROJECT REPORT**

SUBMITTED TO THE DEPARTMENT OF GEOGRAPHY,

HIMACHAL PRADESH UNIVERSITY, SHIMLA

IN FULLFILMENT OF REQUIRMENTS OF THE

COURSE CODE: GEOG.404 FOR THE DEGREE OF

## MASTERS OF ARTS IN GEOGRAPHY


SUBMITTED BY: SHILPA

ROLL NO.: 54220010022

DEPARTMENT OF GEOGRAPHY

FACULTY OF SOCIAL SCIENCES

HIMACHAL PRADESH UNIVERSITY

(NAAC ACCREDITED 'A' GRADE UNIVERSITY)

SUMMER HILL, SHIMLA 171005


**(JULY, 2024)**

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(Representing the Study area)



Source: Survey of India




Source: District Census Handbook Sirmaur

**Photoplate 1: Showing the Nohradhar Market**



**(Source: Field Survey May, 2024)**

**Photoplate 2: Showing the grocery shop and cloth store in Nohradhar Market**




**(Source: Field Survey May, 2024)**

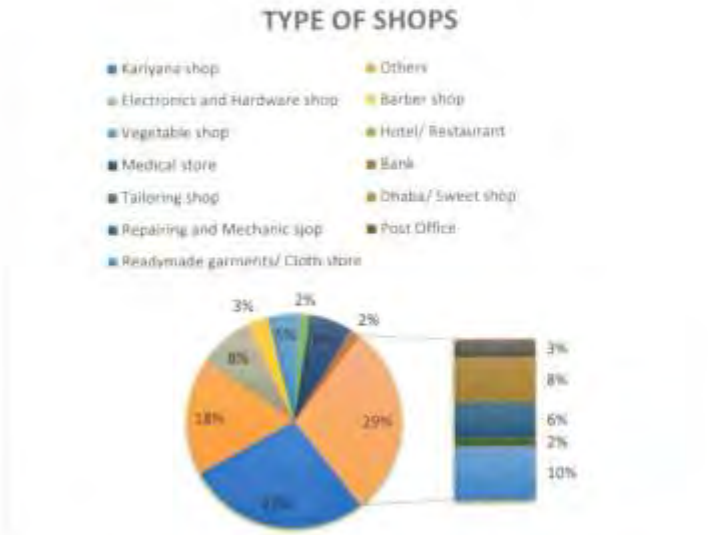



**Figure 3.1 Showing the percentage of type of shops in Study Area**

**Photoplate 3: Showing the grocery shops of Deedag Market**



**(Source: Field Survey May, 2024)**

## APPENDIX

## SCHEDULE

**Schedule no.**

**The Market Survey of**

**Nohradhar, Deedag & Churwadhar Tehsil Rajgarh, District Sirmaur H.P.**

### PART – A (Personal Information)

1. Name of shopkeeper .....

   Gender.....Age.....Address.....
   .....

2. Whether the Owner of shop is local resident? Yes/No

### PART 2 (Origin and Evolution of Market)

1. Year of establishment of the Shop

a. Before 1980 b. 1981 – 1989 c. 1990 – 1999 d. 2000 Present

2. What were the main factors of origin and evolution of the village market?
   .....
   .....

3. Have you done any change in your business since the establishment?

a. Completely change c. Advancement & refinement

b. Partially change d. No change

4. Whether you faced any problem during establishment of the shop?

a. Lot of problems

b. Partial problems

c. No problems




NEW YORK



# LARGE LANGUAGE MODELS: A REVIEW OF MODELS, TOOLS, ISSUES AND CHALLENGES

## A DISSERTATION

SUBMITTED TO DEPARTMENT OF COMPUTER SCIENCE,
HIMACHAL PRADESH UNIVERSITY
IN PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE AWARD OF DEGREE OF

## MASTER OF TECHNOLOGY
## IN
## COMPUTER SCIENCE

2022-2024


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***Dr. Manu Sood***
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# CERTIFICATE

This is to certify that the dissertation entitled "**LARGE LANGUAGE MODELS: A REVIEW OF MODELS, TOOLS, ISSUES AND CHALLENGES**" has been undertaken by Aman Kumar bearing Roll Number 90220010002, as part of the Master of Technology (Computer Science) program, during the 4th Semester. The dissertation serves as a comprehensive record of the work accomplished by him, fulfilling the requisite criteria for the successful completion of the M. Tech. (Computer Science) degree, under my dedicated supervision.

I extend my best wishes to Aman Kumar for continued success in all his future endeavors.

**Date:** 02-07-2024
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**Dr. Manu Sood**
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## DECLARATION

I, **Aman Kumar**, Roll Number 90220010002, a student pursuing Master of Technology (M. Tech) in Computer Science at Himachal Pradesh University, Shimla, hereby declare that the dissertation titled "**LARGE LANGUAGE MODELS: A REVIEW OF MODELS, TOOLS, ISSUES AND CHALLENGES**" submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, fulfils the requirements for the successful completion of my M. Tech degree.

This dissertation is the result of my original work and has not been utilized for the conferral of any other degree or diploma from any other university or institute. I conducted this research under the supervision of Dr. Manu Sood, Professor, Department of Computer Science, Himachal Pradesh University. I further affirm that the content of this dissertation does not exceed permissible limits of plagiarism, as indicated by the plagiarism report generated through the "Turnitin" Plagiarism Detection software.

**Date:** 02-07-2024
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# ANALYSIS OF OBJECT DETECTION MODELS

## PRE-DISSERTATION

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## IN

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This is to certify that thesis entitled **"Analysis of Object Detection Models"** has been carried out by Damini D/O Sh. Nanak Chand Roll No. 22003, a certifiable student of Master of Technology (Computer Science) 3rd Semester session 2022-2024 in the Department of Computer Science, Himachal Pradesh University.

This is a record of her work accomplished during the 3rd Semester of M. Tech. (Computer Science) for the successful completion of her degree under my guidance.

I wish her all the best for the future.

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This report is the original piece of my work and has not formed the basis for the award of any other degree or diploma.

**Place:** Shimla

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# COMPARATIVE ANALYSIS OF SECURITY CHALLENGES IN IOT NETWORK

## PRE-DISSERTATION

Submitted to the Department of Computer Science,
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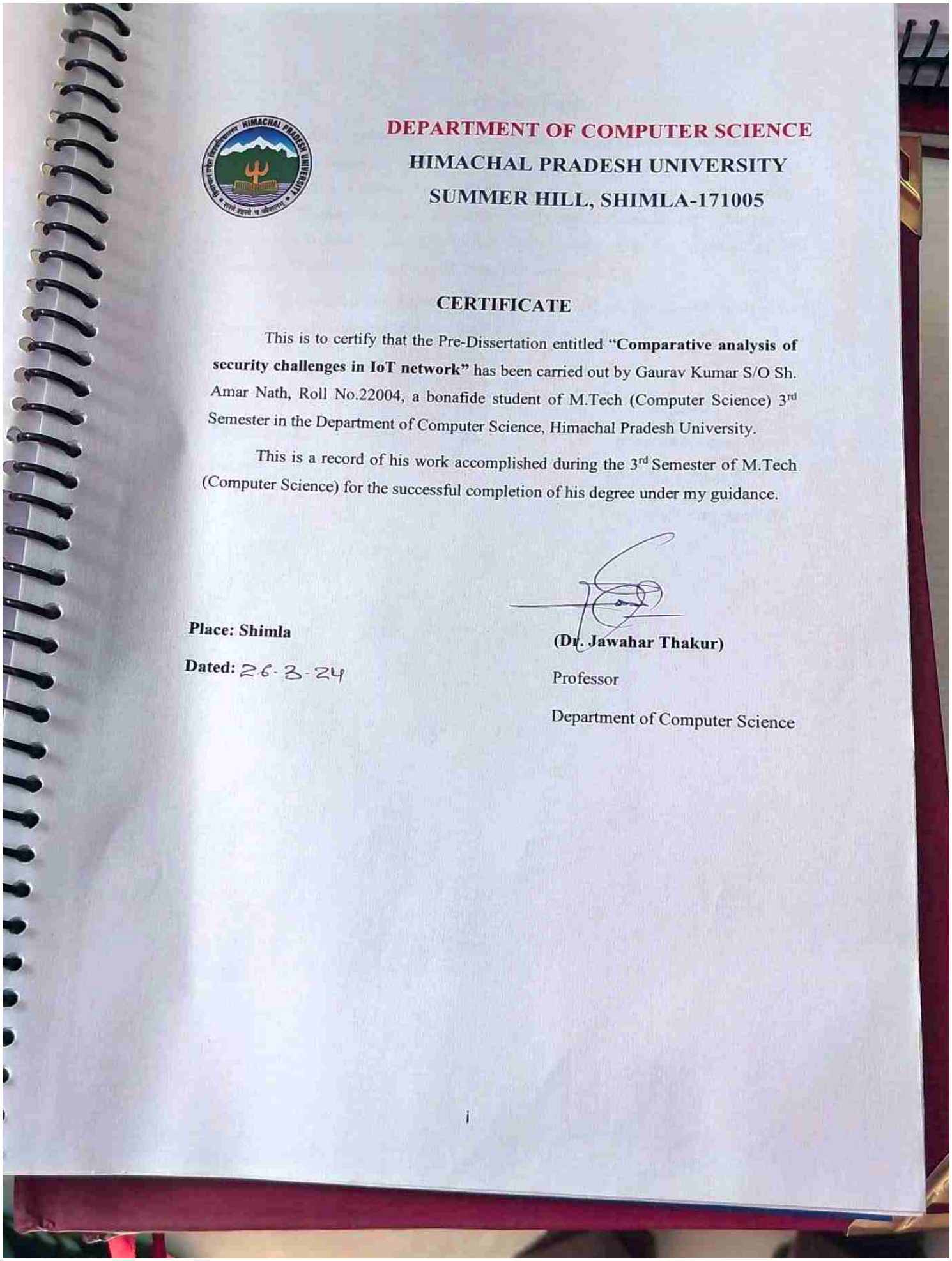
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This is to certify that the Pre-Dissertation entitled **"Comparative analysis of security challenges in IoT network"** has been carried out by Gaurav Kumar S/O Sh. Amar Nath, Roll No.22004, a bonafide student of M.Tech (Computer Science) 3rd Semester in the Department of Computer Science, Himachal Pradesh University.

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**Place: Shimla**

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# DECLARATION

I, hereby declare that the Pre-Dissertation entitled **"Comparative analysis of security challenges in IoT network"** submitted to the Department of Computer Science, HPU, is a record of an original work done by me under the guidance of **Dr. Jawahar Thakur**, Professor, Department of Computer Science, HPU. This project report is submitted in partial fulfilment of the requirements for the award of the degree of Master of Technology in Computer Science.

This report is the original piece of my work and has not formed the basis for an award of any degree or diploma from any other university.

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# AI IN MENTAL HEALTH: A COMPREHENSIVE REVIEW, COMPARATIVE ANALYSIS, AND ETHICAL CONSIDERATIONS FOR ADVANCING ASSESSMENT AND TREATMENT

## A DISSERTATION

**SUBMITTED TO DEPARTMENT OF COMPUTER SCIENCE,**
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## IN

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I extend my best wishes to Mr. Harsh Pathak for continued success in all his future endeavors.

Sumesh Sood

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**Place: Shimla**

**Dr. Sumesh Sood**
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## DECLARATION

I, Harsh Pathak, Roll Number 22006, a student pursuing Master of Technology (M. Tech) in Computer Science at Himachal Pradesh University, Shimla, hereby declare that the dissertation titled " **AI IN MENTAL HEALTH: A COMPREHENSIVE REVIEW, COMPARATIVE ANALYSIS, AND ETHICAL CONSIDERATIONS FOR ADVANCING ASSESSMENT AND TREATMENT**" submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, fulfils the requirements for the successful completion of my M. Tech degree.

This dissertation is the result of my original work and has not been utilized for the conferral of any other degree or diploma from any other university or institute. I conducted this research under the supervision of Dr. Sumesh Sood, Associate Professor, Department of Computer Science, Himachal Pradesh University. I further affirm that the content of this dissertation does not exceed permissible limits of plagiarism, as indicated by the plagiarism report generated through the "Turnitin" Plagiarism Detection software.

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# Classification and Prediction of Terrorist Attack Types Using Ensemble Learning: A Case Study Validated with Historical Data"

A DISSERTATION

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This is to certify that the dissertation entitled "**Classification and Prediction of Terrorist Attack Types Using Ensemble Learning: A Case Study Validated with Historical Data**" has been submitted by Mohit Kaushal S/O Sh. Rajesh Kumar Kaushal, Roll No. 90220010008, a bonafide student of M. Tech. (Computer Science) 4th Semester in the Department of Computer Science, Himachal Pradesh University.

This records his work accomplished during the 4th Semester of M. Tech. (Computer Science) for the partial completion of his degree under my guidance.

I wish him all the best for his future.

(Naveen Kumar)

**Place:** Shimla

**Dated:** 02/07/2024

# DECLARATION

I, Mohit Kaushal hereby declare that the dissertation entitled "**Classification and Prediction of Terrorist Attack Types Using Ensemble Learning: A Case Study Validated with Historical Data**" is submitted to the Department of Computer Science, Himachal Pradesh University is a record of my original work under the guidance of Dr. Naveen Kumar, Assistant Professor, Department of Computer Science, Himachal Pradesh University. This report is submitted as the partial fulfillment of the requirements for the award of degree, Master of Technology in Computer Science.

This report is my original piece of work and is not submitted for any other degree or diploma in any other university.

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# A MACHINE LEARNING BASED DESIGN OF OPTIMAL DRONE TRAJECTORY TO REDUCE DELIVERY TIME

## A DISSERTATION

SUBMITTED TO DEPARTMENT OF COMPUTER SCIENCE, HIMACHAL PRADESH UNIVERSITY

IN PARTIAL FULFILMENT OF THE REQUIREMENTS

FOR THE AWARD OF DEGREE OF

## MASTER OF TECHNOLOGY

## IN

## COMPUTER SCIENCE

**2022-2024**


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This is to certify that the dissertation entitled "**A MACHINE LEARNING BASED DESIGN OF OPTIMAL DRONE TRAJECTORY TO REDUCE DELIVERY TIME**" has been meticulously undertaken by Mr. Mohit Kumar, bearing Roll Number 22008, as part of the Master of Technology (Computer Science) program, during the 4th Semester. The dissertation serves as a comprehensive record of the work accomplished by him, fulfilling the requisite criteria for the successful completion of the M. Tech. (Computer Science) degree, under my dedicated supervision.

I extend my best wishes to Mr. Mohit Kumar for continued success in all his future endeavors.

**Date:** 02-07-2024
**Place: Shimla**

**Dr. Anshul Kalia**
**Assistant Professor**

# DECLARATION

I, Mohit Kumar, Roll Number 22008, a student pursuing Master of Technology (M. Tech) in Computer Science at Himachal Pradesh University, Shimla, hereby declare that the dissertation titled " **A MACHINE LEARNING BASED DESIGN OF OPTIMAL DRONE TRAJECTORY TO REDUCE DELIVERY TIME**" submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, fulfils the requirements for the successful completion of my M. Tech degree.

Thisdissertation is the result of my original work and has not been utilized for the conferral of any other degree or diploma from any other university or institute. I conducted this research under the supervision of Dr. Anshul Kalia, Assistant Professor, Department of Computer Science, Himachal Pradesh University. I further affirm that the content of this dissertation does not exceed permissible limits of plagiarism, as indicated by the plagiarism report generated through the "Turnitin" Plagiarism Detection software.

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# COMPARATIVE ANALYSIS OF ML AND DL TECHNIQUES FOR SPEECH EMOTION RECOGNITION SYSTEMS

## A DISSERTATION

**Submitted to the Department of Computer Science,**
**Himachal Pradesh University**
**in Partial Fulfillments of the requirements**
**for the award of the Degree of**

## MASTER OF TECHNOLOGY
## IN
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**Session: 2022-2024**




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This is to certify that the minor project report titled **"COMPARATIVE ANALYSIS OF ML AND DL TECHNIQUES FOR SPEECH EMOTION RECOGNITION SYSTEMS"** has been carried out by Navita (Roll no 22009) M. Tech (2022-2024), a bonafide student of 4th Semester in the Department of Computer Science, Himachal Pradesh University, Summer Hill, Shimla. This is a record of her work accomplished during the 4th Semester of M. Tech (Computer Science) for the successful completion of her major project under my guidance.

Place: Shimla
Dated: 02/07/2024

**Dr. Yogesh Mohan**
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## DECLARATION

Navita, having examination Roll No. 22009, a student of M. Tech in Computer Science, 4th semester, session 2022-2024, Department of Computer Science, Himachal Pradesh University, Shimla, hereby declare that the major project work titled **"COMPARATIVE ANALYSIS OF ML AND DL TECHNIQUES FOR SPEECH EMOTION RECOGNITION SYSTEMS "** submitted to the Department of Computer Science, Himachal Pradesh University, Shimla for the partial fulfillment of the requirement for the degree of M. Tech. (Computer Science), has been carried out by me under the guidance of Dr. Yogesh Mohan.

The major project is an original piece of my work and has not formed the basis for the award of any degree or diploma.

Place: Shimla
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Navita

**Navita**
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# GENERATIVE ARTIFICIAL INTELLIGENCE: A REVIEW OF TOOLS AND ISSUES

## A DISSERTATION

SUBMITTED TO DEPARTMENT OF COMPUTER SCIENCE,
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IN PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE AWARD OF DEGREE OF

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## IN
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Session 2022-2024


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# CERTIFICATE

This is to certify that the dissertation entitled "**GENERATIVE ARTIFICIAL INTELLIGENCE: A REVIEW OF TOOLS AND ISSUES**" has been undertaken by Satwant Kaur bearing Roll Number 90220010013, a student of Master of Technology (Computer Science), 4th Semester. The dissertation serves as a comprehensive record of the work accomplished by her, fulfilling the requisite criteria for the successful completion of the M. Tech. (Computer Science) degree, under my dedicated supervision.

I extend my best wishes to Satwant Kaur for continued success in all her future endeavors.

**Date:** 02-07-2024
**Place:** Shimla

**Dr. Manu Sood**
Professor
Department of Computer Science
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Shimla

# DECLARATION

I, Satwant Kaur D/O Sh. Sukhpal Singh, having Examination Roll Number 90220010013, a student of Master of Technology (M. Tech.) Computer Science, Himachal Pradesh University, Shimla, do at this moment declare that the dissertation entitled **"Generative Artificial Intelligence: A Review of Tools and Issues"** submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, for the requirements for the successful completion of 4th Semester under the supervision of **Dr. Manu Sood,** Professor, Department of Computer Science, Himachal Pradesh University, Shimla. This dissertation is an original piece of work and has not formed the basis for the award of any other degree/diploma from any other University/Institute. It is also certified that the percentage of plagiarism for the chapters of this thesis in the plagiarism report procured through "Turnitin" Plagiarism Detection software contains plagiarism within the specified limits.

**Date:** 02-07-2024
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# EmoCAPTCHA: ENHANCING SECURITY WITH EMOTION RECOGNITION

## A DISSERTATION

SUBMITTED TO DEPARTMENT OF COMPUTER SCIENCE, HIMACHAL PRADESH UNIVERSITY

IN PARTIAL FULFILMENT OF THE REQUIREMENTS

FOR THE AWARD OF DEGREE OF

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## IN

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2022-2024


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**Submitted by:**
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# CERTIFICATE

This is to certify that the dissertation entitled "**EmoCAPTCHA: ENHANCING SECURITY WITH EMOTION RECOGNITION**" has been meticulously undertaken by Ms. Shivani Rana, bearing Roll Number 22014, as part of the Master of Technology (Computer Science) program, during the 4th Semester. The dissertation serves as a comprehensive record of the work accomplished by her, fulfilling the requisite criteria for the successful completion of the M. Tech. (Computer Science) degree, under my dedicated supervision.

I extend my best wishes to Ms. Shivani Rana for continued success in all his future endeavors.

**Date:** 2/July/2024
**Place: Shimla**

**Dr. K.L Bansal**
**Professor**

## DECLARATION

I, Shivani Rana, Roll Number 22014, a student pursuing Master of Technology (M. Tech) in Computer Science at Himachal Pradesh University, Shimla, hereby declare that the dissertation titled " **EmoCAPTCHA: ENHANCING SECURITY WITH EMOTION RECOGNITION**" submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, fulfils the requirements for the successful completion of my M. Tech degree.

This dissertation is the result of my original work and has not been utilized for the conferral of any other degree or diploma from any other university or institute. I conducted this research under the supervision of Dr. K.L Bansal, Professor, Department of Computer Science, Himachal Pradesh University. I further affirm that the content of this dissertation does not exceed permissible limits of plagiarism, as indicated by the plagiarism report generated through the "Turnitin" Plagiarism Detection software.

**Date:** 2/July/2021
**Place: Shimla**

**Shivani Rana**
**Roll No –22014**
**M. Tech (Computer Science)**

# AN IMPROVISED MACHINE LEARNING TECHNIQUE FOR ANOMALY DETECTION

## DISSERTATION

Submitted to the Department of Computer Science,

Himachal Pradesh University,

In partial Fulfilment of the Requirement for the award of the Degree of

## MASTER OF TECHNOLOGY

## IN

## COMPUTER SCIENCE

2022-2024


**Supervised By:**

**Dr. Anita Ganpati**
**Professor**
**Department of Computer Science**
**Himachal Pradesh University, Shimla**

**Submitted By:**

**Sushma Kumari**
**Roll No: 90220010017**
**Semester 4th**
**M. Tech.**
**(Computer science)**

DEPARTMENT OF COMPUTER SCIENCE HIMACHAL PRADESH UNIVERSITY
SUMMER HILL, SHIMLA -171005

DEPARTMENT OF COMPUTER SCIENCE
HIMACHAL PRADESH UNIVERSITY
SUMMER HILL, SHIMLA - 171005

**Dr. ANITA GANPATI**
*Professor*

## CERTIFICATE

This is to certify that the dissertation entitled "**An Improvised Machine Learning Technique for Anomaly Detection** " has been carried out by Ms. Sushma Kumari having exam Roll Number **90220010017**, student of Master of Technology (Computer Science), 4th semester. The dissertation is a record of the work accomplished by her as a requirement for the successful completion of the degree of M. Tech (Computer Science), under my supervision.

I wish her all the best in the future.

02.07.2024

**Date:** 02/07/2024
**Place:** Shimla

**(Dr. Anita Ganpati)**
**Professor**
Department of Computer Science
Himachal Pradesh University
Shimla

# DECLARATION

I, Sushma Kumari, D/o Sh. Umar Chand having Exam Roll Number 90220010017, student of Master of Technology (M. Tech), Computer Science, Himachal Pradesh University, Shimla; does hereby declare that the predissertation entitled **"An Improvised Machine Learning Technique for Anomaly Detection"**, submitted to the Department of Computer Science, Himachal Pradesh University, for the requirements of the successful completion of 3rd Semester of M. Tech (Computer Science), has been carried out exclusively by me under the supervision of Dr. Anita Ganpati, Professor, Department of Computer Science, Himachal Pradesh University, Shimla. This predissertation is an original piece of work and has not formed the basis for the award of any other degree/diploma of any other university/institute.

Sushma

**Place:** Shimla
**Date:** 02/07/2024

Sushma Kumari
Roll No: 90220010017
M. Tech. (C.S),4th Sem

# EchoText: A NOVEL DEEP LEARNING APPROACH FOR VIDEO SUBTITLING AND EVENT DETECTION

## A DISSERTATION

SUBMITTED TO DEPARTMENT OF COMPUTER SCIENCE,
HIMACHAL PRADESH UNIVERSITY
IN PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE AWARD OF DEGREE OF

**MASTER OF TECHNOLOGY**
**IN**
**COMPUTER SCIENCE**
2022-2024


Supervised by:
**Dr. Sumesh Sood**
Assistant Professor

Submitted by:
**Yamini Sharma**
Roll No: 90220010019
M. Tech (Computer Science)

DEPARTMENT OF COMPUTER SCIENCE
HIMACHAL PRADESH UNIVERSITY
(NAAC ACCREDITED 'A' GRADE UNIVERSITY)
SUMMERHILL SHIMLA -171005

DEPARTMENT OF COMPUTER SCIENCE
HIMACHAL PRADESH UNIVERSITY
SUMMERHILL, SHIMLA -171005

*Dr. Sumesh Sood*
**Assistant Professor**

# CERTIFICATE

This is to certify that thesis entitled **"EchoText: A Novel Deep Learning Approach For Video Subtitling And Event Detection"** has been carried out by Yamini Sharma D/O Sh. Gagnesh Sharma Roll No. 90220010019, a certifiable student of Master of Technology (Computer Science) 4th Semester session 2022-2024 in the Department of Computer Science, Himachal Pradesh University.

This is a record of her work accomplished during the 4th Semester of M. Tech. (Computer Science) for the successful completion of her degree under my guidance.

I wish her all the best for the future.

Sumesh Sood

**Place:** Shimla

**Dated:** 02-July-2024

**Dr. Sumesh Sood**

Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE**

**HIMACHAL PRADESH UNIVERSITY**

**SUMMERHILL, SHIMLA -171005**

## DECLARATION

I **Yamini Sharma** D/O Sh. Gagnesh Sharma, having examination **Roll No. 90220010019**, session (2022-2024), a student of Master of Technology (Computer Science) 4th Semester in the Department of Computer Science, Himachal Pradesh University, Shimla, hereby declares that the major project work entitled **"EchoText: A Novel Deep Learning Approach For Video Subtitling And Event Detection"** submitted to the Department of Computer Science, Himachal Pradesh University, Shimla for the successful completion of Master of Technology (Computer Science), has been carried out by me under the guidance of Assistant Professor Sumesh Sood.

This report is the original piece of my work and has not formed the basis for the award of any other degree or diploma.

**Place:** Shimla

**Dated:** 02-July-2024

**Yamini Sharma**

Roll No. 90220010019

M. Tech. (Computer Science)

H.P University, Shimla

# "E-COMMERCE PRODUCT BASED SHOPPING WEBSITE"

**("Decorate your jersey")**

A Project Report

*Submitted To Department of Computer Science*

*Himachal Pradesh University*

*In Partial Fulfillment of the Requirement for The Degree Of*

## Master of Computer Application

## (MCA 4th Semester)

Batch: 2022-2024


Submitted By:

**Name - Abhimanioue Sharma**

**Roll no.- 38220010003**

Under the Supervision of

**Prof. Arvind Kalia**

# CERTIFICATE

This is to certify that the project report entitled **"decorateyourjersey.com"** submitted to the **Department of Computer Science, Himachal Pradesh University, Shimla-171005,** in partial fulfillment of the requirements for the award of the degree of **MASTER OF COMPUTER APPLICATIONS (MCA),** is an authentic and original work carried out by **Mr. Abhimanioue Sharma.**

**Dated:**

**Prof. Arvind Kalia**
(Project Guide)
Department of Computer Science
Himachal Pradesh University,
Shimla.

## DECLARATION

This is to certify that the Project Report titled **"decorateyourjersey.com"** submitted by me is an outcome of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University or Institute for the fulfillment of the requirements of any course of study.

**Dated:** 5/7/24

**Place:**

**Signature of Student:**

**Name:** Abhimanioue Sharma
**Exam Roll No.** 38220010003
**Session:** 2022-2024

# Shawnmay Photography

## A PHOTOGRAPHER BOOKING WEBSITE

## PROJECT REPORT


**SUBMITTED BY**

**ABHINAV SHARMA**

**Exam Roll no:** 38220010004

**Class:** MCA 4th Sem (A)

**Class Roll No:** 22103

**UNDER THE GUIDANCE OF**

PROF. AMAR JEET SINGH

( Professor)

Department of Computer Science

Himachal Pradesh University

(Shimla)


Submitted in the partial fulfilment of the requirement for the award of the degree of MASTER OF COMPUTER APPLICATION (MCA)

(2022-2024)

# CERTIFICATE FROM GUIDE

It is certified that the project titled "**SHAWNMAY PHOTOGRAPHY**" has been carried out by **ABHINAV SHARMA** having examination roll number **38220010004,** a bona-fide student of MCA 4th semester, Department of Computer Science, Himachal Pradesh University, Shimla.

The project is a record of the work accomplished during 4th semester of MCA as a partial fulfilment of the requirement

For the award of degree in Masters in Computer Application (MCA), under my guidance.

I wish him success in his career.

A J. Singh 2024

**( Prof. AMAR JEET SINGH )**

Department of Computer Science

Himachal Pradesh University

Shimla

**Dated:**

# DECLARATION

I, **Abhinav Sharma** S/o Sh. Balraj Kumar Exam Roll Number **38220010004**, a student of MCA 4th semester, Computer Science Department, Himachal Pradesh University hereby declare that the project titled "**SHAWNMAY PHOTOGRAPHY**", submitted with the Computer Science Department, HP University, as a partial fulfillment of the requirement for the award of degree in Masters in Computer Application (MCA), has been carried out by me under the guidance of **Prof.** AMAR JEET SINGH. The project is an original piece of work and has not formed the basis for the award of any other degree/diploma.

Dated: 04/07/2024

**ABHINAV SHARMA**

Class: MCA 4TH A

Roll No: 38220010004

# E- Learning Management System (Baal Guru)

A PROJECT REPORT

By
**Abhinav Thakur**
38220010005

*SUBMITTED TO Department of Computer Science*
**HIMACHAL PRADESH UNIVERSITY - SHIMLA**

*IN*
*PARTIAL FULFILLMENT OF THE REQUIREMENTS*
*FOR THE DEGREE*
*OF*

**MASTER OF COMPUTER APPLICATION (MCA)**
**Session: 2023-2024**

**Under the Supervision of**
**Prof. Manu Sood**

**DEPARTMENT OF COMPUTER SCIENCE**
**HIMACHAL PRADESH UNIVERSITY**
**SHIMLA-171005, INDIA**

Prof. Manu Sood
Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE**
**HIMACHAL PRADESH UNIVERSITY**
**SHIMLA-171005, INDIA**

# CERTIFICATE

This is to certify that the project report entitled "Baal Guru" submitted to **Department of Computer Science, Himachal Pradesh University, Shimla - 171005** in partial fulfillment of the requirement for the award of the degree of **MASTER OF COMPUTER APPLICATIONS (MCA)** has been carried out by Mr. Abhinav Thakur., with enrolment no. 38220010005 under my guidance during the *4th* Semester of MCA Programme.

I wish her all the best for future.

Dated: 3/07/24

## DECLARATION

I, **Abhinav Thakur** S/O **Sh. Sanjay Kumar**, having examination Roll No. 38220010005 a student of *Master of Computer Application (MCA-2 years) Session (2023-2024)*, hereby declare that the Project Report titled " Baal Guru" submitted to the *Department of Computer Science, Himachal Pradesh University, Shimla,* for the partial fulfillment of the requirement for the degree of *Master of Computer Application,* has been carried out by me under the guidance of **Prof. Manu Sood.**

This Project is an outcome of my independent and original work accomplished during the 4th Semester of MCA Programme. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University/Institute for the fulfillment of the requirements of any course of study.

*Dated:* *Signature of Student*

# Sales Hangry

A PROJECT REPORT

BY

**Abhishek Kumar (38220010007)**

MCA (2022-24)

Department of Computer Science
Himachal Pradesh University
Summer Hill, Shimla (171005)

Under supervision of

**Dr Aman Kumar Sharma**

**Professor**

Department of Computer Science
Himachal Pradesh University
Summer Hill, Shimla (171005)

Submitted in partial fulfilment of the requirement
of the award of the degree of
Master of Computer Application (MCA)

# DECLARATION

I, Abhishek Kumar S/O Sh. Sita Ram , having examination Roll No. 38220010007a student of Master of Computer Application (MCA-2 years) Session (2022-2024), hereby declare that the Project Report titled –**Sales Hangry** submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, for the partial fulfillment of the requirement for the degree of Master of Computer Application, has been carried out me under the guidance of Dr. Aman Kumar Sharma.

This Project is an outcome of my independent and original work accomplished during the 4th Semester of MCA Program. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University/Institute for the fulfillment of the requirements of any course of study.

Abhishek Kumar

Dated: 04/07/2024 Signature of Student

# CERTIFICATE FROM THE GUIDE

**Dr. Aman Kumar Sharma**
Professor
University Summer Hill, Shimla
171005

Department of Computer Science Himachal Pradesh

## CERTIFICATE

This is to certify that the project report entitled **"Sales Hangry"** submitted to **Department of Computer Science, Himachal Pradesh University, Shimla – 171005** in partial fulfilment of the requirement for the award of the degree of **Master of Computer Applications** (MCA) has been carried out by Mr. **Abhishek Kumar** Roll No - **210581220021** under the guidance of **Dr. Aman Kumar Sharma** during the 4th Semester of MCA Program.

I wish him all the Best for the future.

Dated: 04/07/2021

A Sha
(Dr. Aman Kumar Sharma)

# A
# PROJECT REPORT
# ON
# SkillWave

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY IN THE PARTIAL FULFILLMENT ON REQUIREMENT FOR THE AWARD OF THE DEGREE OF

**MASTER OF COMPUTER APPLICATIONS(MCA)**


**Under the Guidance of**
**Dr. Jawahar Thakur,**
**Professor,**
**Dept. of Computer Science**

**Submitted By:**
**Abhishek Kumar**
**Exam Roll. No. 38220010008**
**MCA 4th Sem (A)**



**Department of Computer Science,**
**Himachal Pradesh University, Shimla**
**July-2024**

# CERTIFICATE

It is certified that the project titled "**SkillWave**" has been carried out by **Abhishek Kumar** having examination roll number **38220010008,** a bonafide student of MCA 4th semester, Department of Computer Science, Himachal Pradesh University, Shimla.

The project is a record of the work accomplished during the 4th semester of MCA as a partial fulfillment of the requirement for the award of degree in Masters in Computer Application (MCA), under my guidance.

Dated: 5.7.2024.

(Dr. Jawahar Thakur)
Professor,
Department of Computer Science, Himachal Pradesh University, Shimla

# DECLARATION

I hereby declare that the work entitled "SkillWave" submitted to **Himachal Pradesh University,** Shimla -171005.

During the development of this project, emphasis was given on the client requirement as I am submitting this project for the partial fulfillments of the requirement for the award of degree of Masters of Computer Applications, I declare that this project is developed by me and none of its component is copied from anywhere.

**Dated:**

**Abhishek Kumar**

**Exam Roll no: 38220010008**

**Session: 2022-2024**

**Class: MCA 4th sem**

**Computer Science Department,**

**Himachal Pradesh University, Shimla**

# PROJECT REPORT
## On
## Food Ordering System

Submitted in partial fulfilment of the requirement of the award of degree of

**MASTER IN COMPUTER APPLICATION (MCA) (**2022-2024)

**DEPARTMENT OF COMPUTER SCIENCE**

**HIMACHAL PRADESH UNIVERSITY SUMMERHILL SHIMLA**


**PROJECT GUIDE: -**
**Dr Naveen Kumar**
Assistant Professor
(Department of Computer Science)
Himachal Pradesh University Shimla

**Submitted by: -**
**Akshay Kumar**
Roll no: 38220010010
Class Roll no: 22110
MCA 4th Sem (A)

# DECLARATION

I, Akshay Kumar S/O sh. Kuldeep Singh, having examination Roll No. 38220010010 a student of Master of Computer Applications (MCA) class roll no is 22110 session (2022-2024), hereby declare that the Project Report titled --- **Food ordering System** submitted to the department of Computer Science. Himachal Pradesh, Shimla, for the partial fulfilment of the requirements for the degree of Master of Computer Applications, has been carried out me under the guidance of Dr. Naveen Kumar.

This Project is an outcome of my independent and original work accomplished during the 4th semester of MCA programme. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University/Institute for the fulfilment of the requirements of any course of study.

Date: 04-07-2024

Akshay kumar
Signature of student

# Certificate By Guide

DEPARTMENT OF COMPUTER SCIENCE
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited "A" Grade University)
GYAN PATH SUMMER HILL,
SHIMLA – 171 005
Ph. No.: 0177-2833684
E-mail: nkjaglan@hpuniv.ac.in

Dr. Naveen Kumar
Assistant Professor

## CERTIFICATE

It is certified that **Akshay Kumar** has successfully completed his project entitled "**Food Ordering System**" under my guidance in the partial fulfillment of the requirement for the award of the degree of Master of Computer Applications (MCA).

I wish him all the best for his future endeavors.

Date: 04/07/2024

(Naveen Kumar)

# Digital One Bank

## A PROJECT REPORT

By
**Akshay Kumar**
**38220010011**

*SUBMITTED TO*

**HIMACHAL PRADESH UNIVERSITY - SHIMLA**

*IN*

*PARTIAL FULFILLMENT OF THE REQUIREMENTS*

*FOR THE DEGREE*

*OF*

**MASTER OF COMPUTER APPLICATIONS**
**(MCA)**
**Session: 2022-24**

**Under the Supervision of**

**DR. ANSHUL KALIA**
**Assistant Professor**




**Department of Computer Science**
**Himachal Pradesh University Shimla**
**July 2024**

# DECLARATION

I, **Akshay Kumar** S/o Sh. Ramesh Kumar Exam Roll Number **38220010011**, a student of MCA 4th semester, Computer Science Department, Himachal Pradesh University hereby declare that the project titled "**DIGITAL ONE BANK**", submitted with the Computer Science Department, HP University, as a partial fulfillment of the requirement for the award of degree in Masters in Computer Application (MCA), has been carried out by me under the guidance of **Dr. Anshul Kalia**. The project is an original piece of work and has not formed the basis for the award of any other degree/diploma.

Dated:

**Akshay Kumar**
Class: **MCA 4th Sem (A)**
Roll No: **38220010011**

# CERTIFICATE

It is certified that the project titled "**DIGITAL ONE BANK**" has been carried out by **AKSHAY KUMAR** having examination roll number **38220010011,** a bona-fide student of MCA 4th semester, Department of Computer Science, Himachal Pradesh University, Shimla. The project is a record of the work accomplished during 4th semester of MCA as a partial fulfilment of the requirement for the award of degree in Masters in Computer Application (MCA), under my guidance.

I wish him success in his career.

**Dated:** 05-07-2024

**Dr. Anshul Kalia**

Department of Computer Science

Himachal Pradesh University Shimla

# Car Rental System

A PROJECT REPORT

BY

**Amit**

University Rollno. -38220010016

MCA (2022-24)

Department of Computer Science
Himachal Pradesh University
Summer Hill, Shimla (171005)

Under supervision of

**Dr Manu Sood**

**Professor**

Department of Computer Science
Himachal Pradesh University
Summer Hill, Shimla (171005)

Submitted in partial fulfilment of the requirement
Or the award of the degree of
Master of Computer Application (MCA)

# CERTIFICATE FROM THE GUIDE

**Dr. Manu Sood** Department of Computer Science Himachal Pradesh University Summer Hill, Shimla 171005 Professor

## CERTIFICATE

This is to certify that the project report entitled **"Car Rental System"** submitted to **Department of Computer Science, Himachal Pradesh University, Shimla – 171005** in partial fulfilment of the requirement for the award of the degree of **Master of Computer Applications**(MCA) has been carried out by Mr.**Amit** RollNo-**38220010016** under the guidance of **Dr. Manu Sood** during the 4th Semester of MCA Program.

I wish him all the Best for the future.

Dated: 03/07/24

(Dr. Manu Sood)

# DECLARATION

I, Amit S/O Sh. Mohan Singh , having examination Roll No. 3822001 0016 a student of Master of Computer Application (MCA-2 years) Session (2022-2024), hereby declare that the Project Report titled – **Car Rental System** submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, for the partial fulfillment of the requirement for the degree of Master of Computer Application, has been carried out by me under the guidance of Dr. Manu Sood.

This Project is an outcome of my independent and original work accomplished during the 4th Semester of MCA Program. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University/Institute for the fulfillment of the requirements of any course of study.

Amit

Dated: 03/07/2024 Signature of Student

# TOURISM MANAGEMENT SYSTEM

PROJECT REPORT

**By**

"ANCHAL CHAUHAN"

"38220010017"

MCA 4th Semester

SESSION :2022-2024

Department Of Computer Science

HIMACHAL PRADESH UNIVERSITY, SHIMLA

**Under the Supervision of**

"Dr. KL Bansal"

**Professor**

**Department Of Computer Science**

**Himachal Pradesh University, Shimla**

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF
MASTER OF COMPUTER APPLICATIONS (MCA)

# CERTIFICATE FROM THE GUIDE

It is certified that the project titled **"TOURISM MANAGEMENT SYSTEM"** has been carried out by **ANCHAL CHAUHAN**having examination roll number**38220010017**, a bonafide student of MCA 4th semester, Department of Computer Science, Himachal Pradesh University, Shimla.

The project is a record of the work accomplished during the 4th semester of MCA as a partial fulfilment of the requirement for the award of degree in Masters in Computer Application (MCA), under my guidance.

I wish him/her success in his/her career.

(Dr. K. L. Bansal)
Professor
Computer Science Deptt.
H.P. University, Shimla-5

**(Prof. KL BANSAL)**
**Department of Computer Science,**
**Himachal Pradesh University, Shimla.**

**DATED:-**

# DECLARATION

I, **ANCHAL CHAUHAN,** student of MCAIV semester at Himachal Pradesh University, Shimla, hereby declare that the Internship work entitled "**TOURISM MANAGEMENT SYSTEM**" has been independently carried out by me under the supervision of **Dr KL BANSAL** Professor, and the coordinator **DrAMAN KUMAR SHARMA** Professor, submitted in partial fulfillment of the course requirement for the award of degree in **MCA** of **HIMACHAL PRADESH UNIVESITY, SHIMLA** during the year 2022-2024. I further declare that the report has not been submitted to any other University for the award of any other degree.

# PROJECT REPORT

# ON

# HOTEL MANAGEMENT SYSTEM

Submitted in partial fulfillment of the requirement for the award of the degree of

**MASTER OF COMPUTER APPLICATIONS (MCA)**

**SESSION: (2022-2024)**

**DEPARTMENT OF COMPUTER SCIENECE**

**HIMACHAL PRADESH UNIVERSITY, SHIMLA**


**Project Guide:**

Dr. AMAN KUMAR SHARMA

Professor,

Department Of Computer Science

Himachal Pradesh University, Shimla

**Submitted By:**

Name: Anil Kumar

Roll No: 22118

Class: MCA 4th Sem (A)

Exam Roll No: 38220010018

# CERTIFICATE

It is certified that the project titled "**HOTEL MANAGEMENT SYSTEM**" has been carried out by **ANIL KUMAR S/o Sh. KASHMIR SINGH** having exam roll number **38220010018**, a bonafide student of MCA 4th semester, Computer Science Department, Himachal Pradesh University, Shimla.

The project is a record of the work accomplished during the sixth semester of MCA as a partial fulfilment of the requirement for the award of degree in Masters in Computer Application (MCA), under my guidance.

I wish him/her success in his/her career.

Dated: 04/07/24

ASh

(Dr. AMAN KUMAR SHARMA)
Professor,
Department of Computer Science,
Himachal Pradesh University, Shimla.

# DECLARATION

I Anil Kumar S/o Sh. Kashmir Singh, Exam Roll Number **38220010018**, a student of MCA 4th Semester, Computer Science Department, Himachal Pradesh University hereby declare that the project titled "**HOTEL MANAGEMENT SYSTEM**", submitted with the Computer Science department, HP University, as a partial fulfilment of the requirement for the award of degree in Masters in Computer Application (MCA), has been carried out by me under the guidance of Prof. Aman Kumar Sharma. The project is an original piece of work and has not formed the basis for the award of any other degree/diploma.

Dated: 04/07/2024

ANIL KUMAR

Exam Roll No:38220010018

Class: MCA 4th Sem (A)

Computer Science Department,

Himachal Pradesh University,

Shimla.

A

**PROJECT REPORT**

**ON**

# eLRN (LEARNING MANAGEMENT SYSTEM)

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY IN THE PARTIAL FULFILMENT OF REQUIREMENT FOR THE AWARD OF THE DEGREE

OF

**MASTER OF COMPUTER APPLICATIONS(MCA)**


**Under the Guidance of:**

**Dr. Jawahar Thakur**

**Professor,**

**Dept. of Computer Science**

**Submitted By:**

ANJALI

Exam Roll No. - 38220010019

MCA 4th Semester (A)

Class Roll No. - 22119



**Department of Computer Science,**

**Himachal Pradesh University, Shimla**

**July-2024**

## CERTIFICATE FROM GUIDE

It is certified that the project titled "**eLRN(Learning Management System)**" has been carried out by **ANJALI** having examination roll number **38220010019**, a bonafide student of MCA IV$^{th}$ semester, Department Computer Science, Himachal Pradesh University, Shimla.

The project is a record of the work accomplished during the fourth semester of MCA as a partial fulfilment of the requirement for the award of degree in Mastersin Computer Application (MCA), under my guidance.

Dated: 5.7.2024.

(Dr. Jawahar Thakur)
Professor,
Department of Computer Science,
Himachal Pradesh University,
Shimla.

## DECLARATION BY STUDENT

I, "Anjali D/O Sh. Moti Ram", having examination Roll No. 38220010019, a student of Master of Computer Application (MCA-2 Year) Session (2022-24), hereby declare that the Project Report titled "eLRN(Learning Management System)" submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, for the partial fulfillment of the requirement for the degree of Master of Computer Application, has been carried out me under the guidance of Dr. Jawahar Thakur. This Project is an outcome of my independent and original work accomplished during the 4th Semester of MCA Program. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University / Institute for the fulfillment of the requirements of any course of study.

Anjali

Dated:

Signature of Student

Anjali

MCA 4th semester (SEC-A)

Roll No. - 38220010019

Batch - 2022-2024

# Gym Website

A PROJECT REPORT

By

**Ankit Sharma**
**38220010020**

SUBMITTED TO

**HIMACHAL PRADESH UNIVERSITY - SHIMLA**

*IN*

*PARTIAL FULFILLMENT OF THE REQUIREMENTS*

*FOR THE DEGREE*

*OF*

**MASTER OF COMPUTER APPLICATION (MCA)**
**Session: 2022-2024**

**Under the Supervision of**

**Dr. Sumesh Sood**

**DEPARTMENT OF COMPUTER SCIENCE**
**HIMACHAL PRADESH UNIVERSITY**
**SHIMLA-171005, INDIA**

## DECLARATION

I, **Ankit Sharma** D/S/O **Sh. Vidya Sagar,** having University Roll No. 38220010020 a student of *Master of Computer Application (MCA-2 years) Session (2022-2024),* hereby declare that the Project Report titled " Gym Website" submitted to the *Department of Computer Science, Himachal Pradesh University, Shimla,* for the partial fulfillment of the requirement for the degree of *Master of Computer Application,* has been carried out by me under the guidance of **Dr. Sumesh Sood.** This Project is an outcome of my independent and original work accomplished during the 4th Semester of MCA Programme. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University/Institute for the fulfillment of the requirements of any course of study.

*Dated:* 05/07/2024

*Signature of Student*

DEPARTMENT OF COMPUTER SCIENCE
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited "A" Grade University)
GYAN PATH SUMMER HILL,
SHIMLA – 171 005
Ph. No.: 0177-2833684
E-mail: nkjaglan@hpuniv.ac.in

Dr. Sumesh Sood

Azadi ka Amrit Mahotsav

# CERTIFICATE

It is certified that **Ankit Sharma** has successfully completed his project entitled **"Gym Website"** under my guidance in the partial fulfillment of the requirement for the award of the degree of Master of Computer Applications (MCA).

I wish him all the best for his future endeavors.

Date: 05/07/2024

Sumesh Sood
Associate Professor (Sumesh Sood)

# PROJECT REPORT

# ON

# HEALTHCARE FACILITY ADMINISTRATION

Submitted in partial fulfillment of the requirement of the award of degree of

## MASTER IN COMPUTER APPLICATION

## (MCA)

2022-2024


**DEPARTMENT OF COMPUTER SCIENCE**

**HIMACHAL PRADESH UNIVERSITY SUMMERHILL SHIMLA**

**PROJECT GUIDE**

**Dr. Naveen Kumar**

Assistant Professor

(Department of Computer Science)

Himachal Pradesh University Shimla

**Submitted by:-**

**Anshul kumar**

Roll no: 38220010021

Class Roll no: 22122

MCA 4th sem (A)

# DECLARATION

I, "ANSHUL KUMAR S/O Sh. ANIL Kumar", having examination Roll No. 38220010021, a student of Master of Computer Application (MCA-2 Year) Session (2022-24), hereby declare that the Project Report titled "Health care administration" submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, for the partial fulfillment Of the requirement for the degree of Master of Computer Application, has been carried out by me under the guidance of Dr.Naveen Kumar.

This Project is an outcome of my independent and original work accomplished during the 4th Semester of MCA Program. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University /Institute for the fulfillment of the requirements of any course of study.

Anshul Kumar
Exam Roll No. 38220010021
Class Roll No. 22122
Session 2022-2024,
MCA (IV) Sec(A)
Department of Computer Science,
Himachal Pradesh University, Shimla

Dated: 03/07/2024

Signature of Student

# CERTIFICATE FROM THE GUIDE


Dr. Naveen Kumar
Assistant Professor

DEPARTMENT OF COMPUTER SCIENCE
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited "A" Grade University)
GYAN PATH SUMMER HILL,
SHIMLA – 171 005
Ph. No.: 0177-2833684
E-mail: nkjaglan@hpuniv.ac.in


## CERTIFICATE

It is certified that **Anshul Kumar** has successfully completed his project entitled "**Healthcare Facility Administration**" under my guidance in the partial fulfillment of the requirement for the award of the degree of Master of Computer Applications (MCA).

I wish him all the best for his future endeavors.

Date: 03/07/2024

(Naveen Kumar)

# QUESTIONARIO

## A PROJECT REPORT

By

**ARPANA**

**38220010022**

*SUBMITTED TO*

**HIMACHAL PRADESH UNIVERSITY - SHIMLA**

*IN*

*PARTIAL FULFILLMENT OF THE REQUIREMENTS*

*FOR THE DEGREE*

*OF*

**MASTER OF COMPUTER APPLICATION**

**(MCA)**

**Session: 2022-24**

**Under the Supervision of**

**DR. ANSHUL KALIA**

**Assistant Professor**




**Department of Computer Science**

**Himachal Pradesh University Shimla**

**July 2024**

# DECLARATION

I, ARPANA D/o Sh. Tejmal Exam Roll Number 38220010022, a student of MCA 4th semester, Computer Science Department, Himachal Pradesh University hereby declare that the project titled "QUESTIONARIO", submitted with the Computer Science Department, HP University, as a partial fulfillment of the requirement for the award of degree in Masters Of Computer Application (MCA), has been carried out by me under the guidance of Dr. Anshul Kalia The project is an original piece of work and has not formed the basis for the award of any other degree/diploma.

Dated: 06/07/23

Arpana

Arpana

Class: MCA 4th Sem (A)

Roll No: 38220010022

# CERTIFICATE

It is certified that the project titled "QUESTIONARIO" has been carried out by ARPANA having examination roll number 38220010022, a bonafide student of MCA 4th semester, Department of Computer Science, Himachal Pradesh University, Shimla. The project is a record of the work accomplished during 4th semester of MCA as a partial fulfilment of the requirement for the award of degree in Masters in Computer Application (MCA), under my guidance.

I wish her success in her career.

Dated: 06/07/2024

Dr. Anshul Kalia

Department of Computer Science

Himachal Pradesh University Shimla

# SalesHangry

## A PROJECT REPORT

*By*

**Ashu**

**38220010023**

*SUBMITTED TO*

**HIMACHAL PRADESH UNIVERSITY - SHIMLA**

*IN*

*PARTIAL FULFILLMENT OF THE REQUIREMENTS*

*FOR THE DEGREEOF*

**MASTER OF COMPUTER APPLICATION(MCA)**

**Session: 2022-24**

**Under the Supervision of**

**Assistant Professor Dr. Yogesh Mohan**




**DEPARTMENT OF COMPUTER SCIENCE**
**HIMACHAL PRADESH UNIVERSITY**
**SHIMLA-171005, INDIA**

# DECLARATION

This is to certify, that the Project Report titled **SalesHangry** submitted by me is an outcome of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University / Institute for the fulfillment of the requirements of any course of study.

03/07/2024

Dated:

Signature of Student

Enrollment No - 38220010023

Batch – 2022 - 2024

# CERTIFICATE

This is to certify that the project report entitled **SalesHangry** submitted to **Department of Computer Science, Himachal Pradesh University, Shimla - 171005** in partial fulfillment of the requirement for the award of the degree of **MASTER OF COMPUTER APPLICATIONS (MCA)** Session 2022-24 has been carried out by Mr. **Ashu**, with enrollment no. **38220010023** under my guidance.

I wish him/her all the best for future.

Dated: 03/07/2024

Signature and address of the Guide(s)

# The AgriVision

A PROJECT REPORT

By

**Kedar Chandel**

**38220010041**

SUBMITTED TO

**HIMACHAL PRADESH UNIVERSITY - SHIMLA**

IN

PARTIAL FULFILMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

**MASTER OF COMPUTER APPLICATION (MCA)**

**Session: 2022-24**

Under the Supervision of

**Dr. KL Bansal**

**(Professor)**

**DEPARTMENT OF COMPUTER SCIENCE HIMACHAL PRADESH UNIVERSITY SHIMLA-171005, INDIA**

# Certificate from the Guide

This is to certify that the project report entitled **"THE AGRIVISION"** submitted to **Department of Computer Science, Himachal Pradesh University, Shimla - 171005** in partial fulfillment of the requirement for the award of the degree of **MASTER OF COMPUTER APPLICATIONS (MCA)** Session 2022-24 has been carried out by **MR. KEDAR CHANDEL** , with enrolment no. **38220010041** under my guidance.

I wish him all the best for the future.

Dated:

**(DR. K.L. BANSAL)**

**Professor,**

(Dr. K. L. Bansal)
Professor
Computer Science Deptt.
H.P. University Shimla 5

Department of Computer Science,

Himachal Pradesh University Shimla.

# CERTIFICATE OF ORIGINALITY

**DECLARATION:**

This is to certify, that the Project Report titled **"THE AGRIVISION"** submitted by me is an outcome of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University / Institute for the fulfillment of the requirements of any course of study.

Dated:**KEDAR CHANDEL**

Exam Roll No. **: 38220010041**

Class :**MCA (A)**

**Computer ScienceDepartment**

**Himachal Pradesh University Shimla**

**HIMACHAL PRADESH UNIVERSITY**

**DEPARTMENT OF COMPUTER SCIENCE, SHIMLA - 171005 , INDIA**

**A PROJECT REPORT**

# On

# " Sales Hangry "

*IN*
*PARTIAL FULLFILLMENT OF THE REQUIREMNTS*
*FOR THE DEGREE*
*OF*

**MASTER OF COMPUTER APPLICATIONS (MCA)**

**Session: 2022-2024**


**Submitted By:**

**Name:** Khushbu

**Exam Roll no:** 38220010042

**Class:** MCA IV(SEC-A)

**Class Roll no:** 22143

**Under the Provision of:**

Dr. Aman Kumar Sharma

Professor,

Department of Computer Science

# DECLARATION

I, Khushbu D/O Sh. Suriender Kumar, having examination Roll No. 38220010042 a student of Master of Computer Application (MCA-2 years) Session (2022-2024), hereby declare that the Project Report titled **"Sales Hangry "** submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, for the partial fulfillment of the requirement for the degree of Master of Computer Application, has been carried out me under the guidance of Prof. Aman Kumar Sharma.

This Project is an outcome of my independent and original work accomplished during the 4th Semester of MCA Program. The project is free from any plagiarism and has not been submitted elsewhere to any other University/Institute for the fulfillment of the requirements of any course of study.

Dated: 03/07/2024

Khushbu
Signature of Student

Khushbu

MCA-IV(SEC A)

Roll No – 38220010042

Batch – 2022-2024

# CERTIFICATE FROM THE GUIDE

It is certified that the project title "**Saies Hangry**" has been carried out by Ms. **Khushbu** having an exam roll number **38220010042 ,** a bonafide student of MCA VI semester, Computer Science Department, Himachal Pradesh University, Shimla.

The Project is a record of the work accomplish during IV semester of MCA as a partial fulfillment of the requirement for the award of degree in Masters in Computer Application(MCA), under my guidance.

I wish her success in her career.

Dated: 04/July/24

ASh-

Dr. Aman Kumar Sharma

Professor,

Department of Computer Science

Himachal Pradesh University,

Shimla

# A
# PROJECT REPORT
# ON

## Networking & Cybersecurity

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY IN THE PARTIAL FULFILMENT OF REQUIREMENT FOR THE AWARD OF THE DEGREE OF

**MASTER OF COMPUTER APPLICATIONS (MCA)**


**Under the guidance of:**
**Dr. Jawahar Thakur**
**Professor,**
**Department of Computer Science**

**Submitted By:**
KOMAL
Exam Roll No: 38220010043


**Department of Computer Science,**
**Himachal Pradesh University, Shimla**
**July-2024**

## CERTIFICATE FROM THE GUIDE

It is certified that the project titled **"Networking & Cybersecurity"** has been carried out by Komal having examination roll number 38220010043, a bonafide student of MCA 4th Semester, Department of Computer Science, Himachal Pradesh University, Shimla.

The project is a record of the work accomplished during the fourth semester of MCA as a partial fulfillment of the requirement for the award of degree in Masters in Computer Application (MCA), under my guidance.

I wish her success in her career.

Dated: 5.7.2024

(Dr. Jawahar Thakur)
Professor,
Department of Computer Science, Himachal Pradesh University Shimla

# DECLARATION

I hereby declare that the work entitled **"Networking & Cybersecurity"** submitted to **HIMACHAL PRADESH UNIVERSITY, SUMMERHILL SHIMLA** is a record of an original work done by me under the guidance of **SOLITAIRE INFOSYS PVT. LTD.**

During the development of this project, emphasis was given on the client requirement. As we are submitting this project for the partial fulfilments of the requirement for the award of degree of Masters of Computer Applications, we wish to declare that this project is developed by me and none of its component is copies from anywhere.

Dated:

KOMAL
Roll No. 38220010043
Session:2022-2024
Class- MCA 4th Semester
Computer Science Department,
Himachal Pradesh University,
Shimla

# PROJECT REPORT

# On

# "SalesHangry"

Submitted in the partial fulfillment of the requirement for the award of the degree of

**MASTER OF COMPUTER APPLICATION (MCA)**

**(2022-2024)**


**Department of Computer Science**

**Himachal Pradesh University**

**Shimla**

**Project Guide:**

Dr. Yogesh Mohan
Assistant Professor
Department of Computer Science, Himachal Pradesh University, Shimla

**Submitted By:**

**Name:** Manik

**Class:** MCA 4$^{h}$ (A)
**Exam Roll No:** 38220010047
**Class Roll No.:** 22148

# DECLARATION

This is to certify, that the Project Report titled "**SalesHangry**" submitted by me is an outcome of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University / Institute for the fulfillment of the requirements of any course of study.

Dated:

Signature of Student

Name: Manik

Enrollment No.: 38220010047

MCA 4th Sec. A (2022-24)

# CERTIFICATE

This is to certify that the project report entitled "**SalesHangry**" submitted to **Department of Computer Science, Himachal Pradesh University, Shimla – 171005** in partial fulfillment of the requirement for the award of the degree of **MASTER OF COMPUTER APPLICATIONS (MCA)** Session 2022-24 has been carried out by Mr./Ms. **Manik**, with enrollment no. **38220010047** under my guidance.

I wish him/her all the best for future.

Dated: 03/07/2024

Dr. Yogesh Mohan

Assistant Professor,

Department Of Computer Science

Himachal Pradesh University,

Shimla, H.P.

**MCA Project**
Report

# Sales Hangry

*Submitted in partial fulfillment of*
*the requirements for the award of the degree of*

**Master of Computer Application**


Submitted by

Manish
Exam Roll No: 38220010048

Under the guidance of
**Prof. Anita Ganpati**

Department of Computer Science
Himachal Pradesh University
Shimla, HP, India -171005


Session 2022-24

# Declaration

I, Manish S/O Sh. Tenzin Tsering, having examination Roll No. 38220010048 a student of Master of Computer Application (MCA-2 years) Session (2022-2024), hereby declare that the project titled —Sales Hangry submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, for the partial fulfillment of the requirement for the degree of Master of Computer Application, has been carried out by me under the guidance of Prof. Anita Ganpati.

This Project is an outcome of my independent and original work accomplished during the 4th Semester of MCA Program. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University/Institute for the fulfillment of the requirements of any course of study.

Signature of student

Date: 4th July 2024

# Department of Computer Science

HIMACHAL PRADESH UNIVERSITY

## *Certificate*

This is to certify that the project report entitled "SalesHangry" submitted to Department of Computer Science, Himachal Pradesh University, Shimla - 171005 in partial fulfillment of the requirement for the award of the degree of Master Of Computer Application, is an authentic and original work carried out by Mr. Manish, with Examination Roll No. 38220010048 from "The Iron Network" under the guidance of Prof. Anita Ganpati during the final Semester of MCA Program.

04.07.2024

Prof. Anita Ganpati
(Project Guide)

Date: 4th July 2024

# RAPSODY

A Project Report

By

**MEGHNA GUPTA**

38220010052

*SUBMITTED TO*

**HIMACHAL PRADESH UNIVERSITY – SHIMLA**

*IN*

*PARTIAL FULFILLMENT OF THE REQUIREMENTS*

*FOR THE DEGREE*

*OF*

**MASTER OF COMPUTER APPLICATION (MCA)**

***Session: 2022-24***

**Under the Supervision of**

**DR. YOGESH MOHAN**

**DEPARTMENT OF COMPUTER SCIENCE**

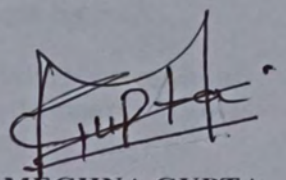
**HIMACHAL PRADESH UNIVERSITY – SHIMLA**

**171005-INDIA**

# DECLARATION FROM STUDENT

This is to certify that the project report titled "**YAPSODY**" submitted by me is an outcome of my original and dedicated team work in my current company. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism as has not been submitted elsewhere to any other University/Institute for the fulfillment of the requirements of any course of study.

**Dated** – JULY 4, 2024



**MEGHNA GUPTA**
**MCA-B**
**38220010052**
**Session 2022-24**

# CERTIFICATE FROM GUIDE

This is to certify that the project entitled "**YAPSODY**" submitted to **Department of Computer Science, Himachal Pradesh University Shimla-171005** in partial fulfillment of the requirement for the award of the degree of, **MASTER OF COMPUTER APPLICATIONS (MCA) Session 2022-24** has been carried out by Ms. **MEGHNA GUPTA**, with enrollment no. **38220010052** under my guidance.

I wish her all the best for future.

**Dated:** July 4, 2024

**(Signature)**
**Dr. YOGESH MOHAN**
***Assistant Professor***
***Computer Science Department***
***HPU Shimla.***

# A PROJECT REPORT

# ON

# SCHOOL MANAGEMENT SYSTEM

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY
IN THE PARTIAL FULFILMENT OF REQUIREMENT FOR
THE AWARD OF THE DEGREE OF

## MASTER OF COMPUTER APPLICATIONS (MCA)

**Session: (2022-2024)**

**Department of Computer Science**

**Himachal Pradesh University Shimla**


**Project Guide**

**Dr. Anshul Kalia**

**Assistant Professor**

**Department of Computer Science**

**Submitted by**

Neelesh Kumar

Exam Roll No: 38220010053

Class: MCA 4th Sem (B)


**Department of Computer Science,**
**Himachal Pradesh university, Shimla**
**July-2024**

## CERTIFICATE FROM THE GUIDE

This is to certify that the project work titled "SCHOOL MANAGEMENT SYSTEM" has been carried out and submitted by Neelesh Kumar (22154) of **MCA-4th** semester of Department of Computer Science, H.P. University, Shimla, in partial fulfilment of the requirement of for the award of degree of "**MASTER OF COMPUTER APPLICATION (MCA)".**

This work has been carried out under my guidance and supervision during the academic year Jan – May 2024 .

I wish him success in his career.

Dated: 05-07-2024

( Dr. Anshul Kalia )
Assistant Professor
Department of Computer Science
Himachal Pradesh University
Shimla

## DECLARATION FROM THE STUDENT

I hereby declare that the work entitled "**SCHOOL MANAGEMENT SYSTEM**" submitted to **HIMACHAL PRADESH UNIVERSITY, SUMMERHILL SHIMLA** is a good record of a original work done by me under the guidance of **MILLEYNIUM SOFT**.

During the development of this project, emphasis was given on the client requirement. As we are submitting this project for the partial fulfilments of the requirement for the award of degree of Masters of Computer Applications, we wish to declare that this project is developed by me and none of its component is copies from anywhere.

Neelesh Kumar

Dated:

Neelesh Kumar

Exam Roll No. 30220010053

Class – MCA 4th Semester

Session - 2022-24

Computer Science Department, Himachal Pradesh University, Shimla.

# PROJECT REPORT

# ON

# "FRIENDS CHAT"

Submitted in partial fulfilment of the requirement for the award of the degree of

## MASTER OF COMPUTER APPLICATIONS (MCA)

**(2022-2024)**

## DEPARTMENT OF COMPUTER SCIENCE

## HIMACHAL PRADESH UNIVERSITY SUMMERHILL SHIMLA


**Project Guide:**
Dr. Naveen Kumar
Assistant Professor
Department of Computer Science
Himachal Pradesh University, Shimla

**Submitted By:**
Neeraj
Class Roll No. 22155
MCA 4th Semester
Exam Roll No.38220010054

# DECLARATION

I, **Neeraj** S/O Sh. **Rakesh Kumar**, having examination Roll No. 38220010054 a student of Master of Computer Application (MCA-2 years) Session (2022-2024), hereby declare that the Project Report titled **Friends Chat** submitted to the Department of Computer Science, Himachal Pradesh University, Shimla, for the partial fulfillment of the requirement for the degree of Master of Computer Applications, has been carried out me under the guidance of **Dr. Naveen Kumar.**

This Project is an outcome of my independent and original work accomplished during the 4th Semester of MCA Programme. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University/Institute for the fulfillment of the requirements of any course of study.

Dated: 03/07/2024

Neeraj

Signature of Student

Dr. Naveen Kumar
Assistant Professor

DEPARTMENT OF COMPUTER SCIENCE
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited "A" Grade University)
GYAN PATH SUMMER HILL,
SHIMLA – 171 005
Ph. No.: 0177-2833684
E-mail: nkjaglan@hpuniv.ac.in

Azadi Ka Amrit Mahotsav

# CERTIFICATE

It is certified that Neeraj has successfully completed his project entitled "**Friends Chat**" under my guidance in the partial fulfillment of the requirement for the award of the degree of Master of Computer Applications (MCA).

I wish him all the best for his future endeavours.

Dated: 03/07/2024

(Naveen Kumar)

# "RESTAURANT MANAGEMENT SYSTEM"

A Project Report

by

**"NITIKA SHARMA"**

**38220010056**

SUBMITTED TO

**HIMACHAL PRADESH UNIVERSITY- SHIMLA**

IN

PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE

OF

**MASTERS IN COMPUTER APPLICATION(MCA)**

**Session: 2022-2024**

Under the Supervision of

**Dr. Sumesh Sood**

**(Associate Prof.)**

**DEPARTMENT OF COMPUTER SCIENCE**

**HIMACHAL PRADESH UNIVERSITY**

**SHIMLA-171005, INDIA**

## CERTIFICATE

This is to certify that the project report entitled **"Restaurant Management System"** submitted to Department of Computer Science, Himachal Pradesh University, Shimla in partial fulfillment of the requirement for the award of the degree of MASTER OF COMPUTER APPLICATIONS (MCA) Session 2022-2024 has been carried out by Miss Nikita Sharma, with enrolment no. **38220010056** under my guidance during the 4th semester of the MCA program.

I wish her all the best for the future.

Dated:

Sumesh Sood

**Dr. Sumesh Sood**
Associate Professor,
Department of Computer Science,
Himachal Pradesh University,
Shimla, 171005

## Declaration

This is to certify, that the Project Report titled "Restaurant Management System" submitted by me is an outcome of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University / Institute for the fulfillment of the requirements of any course of study.

Dated:

Nikita Sharma

**Nikita Sharma**
University Roll No. 38220010056
Class: **MCA (B)**
**Computer Science Department,**
**Himachal Pradesh University,**
**Shimla.**

# "BOOKSAW"

A Project Report By

"NISHANT" 38220010057

SUBMITTED TO

HIMACHAL PRADESH UNIVERSITY- SHIMLA

IN

PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE

DEGREE

OF

MASTERS IN COMPUTER APPLICATION (MCA 4TH

SEMESTER)

BATCH: 2022-2024

Under the Supervision of

**Prof. Anita Ganpati**

DEPARTMENT OF COMPUTER SCIENCE

HIMACHAL PRADESH UNIVERSITY SHIMLA-

171005, INDIA

Department of Computer Science
Himachal Pradesh University Shimla
- 171005

## Certificate

This is to certify that the project report entitled **"BOOKSAW"** submitted to Department of Computer Science, Himachal Pradesh University, Shimla - 171005 in partial fulfilment of the requirement for the award of the degree of **MASTER OF COMPUTER APPLICATIONS ( MCA)**, is an authentic and original work carried out by **Mr. Nishant,** with enrolment no. **38220010057** under guidance.

Dated: 04/07/2024

Prof. Anita Ganpati

Department of Computer Science

# ACKNOWLEDGEMENT

The successful completion of this MCA project would not have been possible without the support and guidance of many individuals. I am deeply grateful for their encouragement, assistance, and contributions throughout this journey.

First and foremost, I would like to express my sincere gratitude to my project supervisor, Prof. Anita Ganpati, for her invaluable guidance, constructive feedback, and constant support. Her expertise and insights have been instrumental in shaping the direction and outcome of this project. I extend my heartfelt thanks to the faculty members of the Department of Computer Science for providing a robust foundation of knowledge and for their unwavering support throughout the course of this program.

I am also grateful to BookSaw for providing the resources and environment necessary for the successful execution of this E-commerce Book Shopping Web Application project. The practical exposure and experience gained during this time have been immensely beneficial. Lastly, I would like to thank my peers and colleagues
for their cooperation, ideas, and companionship, which have made this journey both educational and enjoyable.

This project is the culmination of collective efforts, and I am profoundly thankful to everyone who has contributed to its successful completion.

Nishant

Nishant

# PROJECT REPORT

## On

# "Euphony"

Submitted in the partial fulfilment of the requirement for the award of the degree of

**MASTER OF COMPUTER APPLICATIONS (MCA)**

**(2022-2024)**




**Under the Guidance of:**

Dr. Jawahar Thakur

Professor,

Department of Computer Science

**Submitted By:**

Name: Paritesh Thakur

Exam Roll No.: 38220010058

MCA 4th Sem (B)

**Department of Computer Science,**

**Himachal Pradesh University Shimla**

**July - 2024**

# CERTIFICATE FROM GUIDE

It is certified that the project entitled "Euphony" has been carried out by Mr. Paritesh Thakur, with Examination Roll No 38220010058, a bonafide student of MCA 4th semester, Department Computer Science, Himachal Pradesh University, Shimla.

The project is a record of the work accomplished during the fourth semester of MCA as a partial fulfillment of the requirement for the award of degree in Masters in Computer Application (MCA), under my guidance.

Dated: 5.7.2024

Place: HPU Shimla

(Dr. Jawahar Thakur)
Professor,
Department of Computer Science
Himachal Pradesh University
Shimla

# DECLARATION

This is to certify, that the Project Report titled "Euphony" submitted by me is an outcome of my independent and original work. I carried out my project from "ToXSL" under the guidance of **Prof. Jawahar Thakur (Department of Computer Science) Himachal Pradesh University, Shimla**. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University / Institute for the fulfilment of the requirements of any course of study.

Dated: 05/07/2024
Place: HPU Shimla

Paritesh Thakur
Roll No. 38220010058
Batch: 2022-24
Department of Computer Science
Himachal Pradesh University,
Shimla

# eअध्याय

PROJECT REPORT

By

**Parul**

**38220010059**

**MCA 4th semester (B)**

**SUBMITTED TO**

**HIMACHAL PRADESH UNIVERSITY SUMMERHILL**

IN

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIEEMENTS FOR THE DEGREE OF

**MASTER OF COMPUTER APLLICATION (MCA)**

**(SESSION 2022 – 2024)**

**Under the Supervision of**

**Prof. Aman Kumar Sharma**

**DEPARTMENT of COMPUTER SCIENCE**

**HIMACHAL PRADESH UNIVERSITY SUMMERHILL,**

**SHIMLA – 171005**

# CERTIFICATE

It is certified that the project titled "**eअध्याय**" submitted to **Department of Computer Science, Himachal Pradesh University,** Shimla -171005 in partial fulfillment of the requirement for the award of the degree of **MASTER OF COMPUTER APPLICATIONS (MCA)** session **2022-24** has been carried out by Mr./Ms. **Parul** with enrollment no. **38220010059** under by guidance. I wish him/her success in his/her career.

**Date** 04/July/24

**Prof. Aman Kumar Sharma.**

**Department of Computer Science**
**Himachal Pradesh University, shimla.**

# DECLARATION

This is to certified, that the project report titled "**eअध्याय**" submitted by me is an outcome of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other university/Institute from the fulfillment of the requirements of any course of study.

**Dated:**
04/07/2024

**Parul** Parul

**Exam Roll no: 38220010059**
**Class: MCA 4th Semester (B)**
**Department of Computer Science**
**Himachal Pradesh University, shimla.**

# "BILLING CUM INVENTORY"

A PROJECT REPORT

By

"PAYAL KATOCH"

"38220010060"

SUBMITTED TO

HIMACHAL PRADESH UNIVERSITY - SHIMLA

IN

PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE AWARD OF THE DEGREE

OF

MASTER OF COMPUTER APPLICATION (MCA)

BATCH: 2022-2024

Under the Supervision

of

"Prof. Kishori Lal Bansal"




DEPARTMENT OF COMPUTER SCIENCE

HIMACHAL PRADESH UNIVERSITY SHIMLA-171005, INDIA

## 1.1 CERTIFICATE FROM THE GUIDE

**DEPARTMENT OF COMPUTER SCIENCE**
**HIMACHAL PRADESH UNIVERSITY**
**SUMMERHILL, SHIMLA - 171005**

This is to certify that the project titled **"Billing Cum Inventory"** has been completed by **Payal**, exam roll number **38220010060**, a genuine student of **MCA 4th semester**, Computer Science Department, **Himachal Pradesh University, Shimla.**

The project stands as a testament to the work accomplished during the fourth semester of MCA, fulfilling the requirements for the degree of **Master in Computer Application (MCA),** under my supervision.

I extend my best wishes for her **success** in her future endeavours.

Dated: 4/7/2024
Place: Shimla

Dr. Kishori Lal Bansal
(Dr. K. L. Bansal)
Professor
Computer Science Dept.
H.P. University Shimla 5

## 3.1 DECLARATION

I, **Payal**, exam roll number **302200670060**, a student of the **MCA IVth Semester** in the Computer Science Department at Himachal Pradesh University, hereby declare that the project titled **"Billing cum Inventory,"** submitted to the Computer Science Department of Himachal Pradesh University, is in partial fulfilment of the requirements for the award of the degree of **Master of Computer Applications (MCA).** This project has been carried out solely by me under the valuable guidance of **Dr. Kishori Lal Bansal.** It is an original piece of work and has not been submitted for the award of any other degree or diploma at any institution.

I am grateful for the support and direction provided by **Dr. Kishori Lal Bansal**, which was instrumental in the successful completion of this project.

**Dated:** 4/7/2024.
**Place: Shimla**

**Signature of Student**

# " Prachaar+ "

**A PROJECT REPORT**

By

**"Piyasha"**

**"Examination Roll No: -38220010061"**

SUBMITTED TO

**DEPARTMENT OF COMPUTER SCIENCE**

IN

PARTIAL FULFILLMENT OF THE

REQUIREMENTS FOR

THE DEGREE

OF

**MASTER OF COMPUTER APPLICATION**

**(MCA)**

**BATCH: 2022-2023**

Under the Supervision of

**"Prof. Manu Sood"**

**HIMACHAL PRADESH UNIVERSITY**

**SHIMLA-17005, INDIA**

# CERTIFICATE

This is to certify that the project report entitled **Prachaar+** submitted to Himachal Pradesh University in partial fulfillment of the requirement for the award of the degree **of Master of Computer Applications (MCA)**, is an original work carried out by **Piyasha,** Roll Number – **22163** under the guidance of **Prof. Manu Sood**. The matter embodied in this project is a genuine work done by the student and has not been submitted whether to this University or to any other University Institute for the fulfillment of the requirement of any course of study.

I wish him success in his career.

Signature of Project Guide:

_____

Project Guide

Prof.Manu Sood

Date: 04/07/24

Place: Shimla

Department of Computer Science

HP University, Shimla

# DECLARATION

I **Piyasha** Do/O miss Deepa Devi, Exam Roll No **210581220082**, student of **MCA IV** semester, Computer Science department, Himachal Pradesh University hereby declare that the project titled **Prachaar+** submitted with the **Computer Science Department HP University**, as a partial fulfillment of the requirement for the award of degree in Masters in Computer Applications, has been carried out by me under the guidance of **Dr.Manu sood**. The project is an original piece of work and has not formed the basis for the award of any other degree /diploma.

Signature of Student

Piyasha

Date: 04/07/2024

Place: _____

Piyasha

Roll No. 22163

MCA IV (B)

# HOME CLEANING SERVICE

PROJECT REPORT
**By**

**POOJA DEVI**
38220010062

**SUBMITTED TO**

**HIMACHAL PRADESH UNIVERSITY SUMMERHILL**

IN

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF

MASTER OF COMPUTER APLLICATION(MCA)

**(SESSION 2022 – 2024)**

**Under the Supervision of**
**PROF. DR. A.J. SINGH**




**DEPARTMENT Of COMPUTER SCIENCE**
**HIMACHAL PRADESH UNIVERSITY SUMMERHILL,**
**SHIMLA - 171005**

## CERTIFICATE

It is certified that the project titled **HOME CLEANING SERVICE** submitted to DEPARTMENT OF COMPUTER SCIENCE, HIMACHAL PRADESH UNIVERSITY, SHIMLA-171105 in partial fulfilment of the requirement for the award of the degree of MASTER OF COMPUTER APPLICATION(MCA) session 2022-2024 has been carried out by Mr./Ms. POOJA DEVI WITH enrolment no. 38220010062 under by guidance.

I wish him/her success in his/her career.

**Prof. Dr. A. J. Singh**

A J Singh

4 July 2024

**Signature of Guide**

## DECLARATION

This is to certified, that the project report titled **"HOME CLEANING SERVICE"** submitted by me in an out come of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other university/Institute from the fulfilment of the requirements of any course of study.

DATE:

POOJA DEVI

EXAM ROLL NO.: 38220010062

# SPARKS - Connecting Thoughts

## A PROJECT REPORT

By

**TANVI SINGH**

**38220010092**

*SUBMITTED TO*

**HIMACHAL PRADESH UNIVERSITY - SHIMLA**

*IN*

*PARTIAL FULFILLMENT OF THE REQUIREMENTS*

*FOR THE DEGREE*

*OF*

**MASTER OF COMPUTER APPLICATION (MCA)**

**Session: 2022-24**

**Under the Supervision of**

**"Dr. AMAN KUMAR SHARMA"**

**DEPARTMENT OF COMPUTER SCIENCE HIMACHAL PRADESH UNIVERSITY SHIMLA-171005, INDIA**

# CERTIFICATE FROM GUIDE

It is certified that the project titled **"SPARKS"** has been carried out by **TANVI SINGH** having exam roll number **38220010092** , a bonafide student of MCA IVth semester, Computer Science Department, Himachal Pradesh University, Shimla.

The project is a record of the work accomplished during the sixth semester of MCA as a partial fulfillment of the requirement for the award of degree in Masters in Computer Application (MCA), under my guidance.

I wish him/her success in his/her career.

Dated 4/July/23

Ar. SK -

**(Dr. AMAN KUMAR SHARMA)**
**Professor,**
Department of Computer Science,
Himachal Pradesh University, Shimla.

# DECLARATION

I **Tanvi Singh** D/o Sh. Deepak Verma, exam roll number **38220010092,** a student of MCA VIth semester, Computer Science Department, Himachal Pradesh University hereby declare that the project titled "**Sparks**", submitted with the Computer Science department, HP University, as a partial fulfillment of the requirement for the award of degree in Masters in Computer Application (MCA), has been carried out by me under the guidance of Prof. Aman Kumar Sharma. The project is an original piece of work and has not formed the basis for the award of any other degree/diploma.

Dated 04/July

**Tanvi Singh**

Exam Roll No. : **38220010092**

Class : **MCA (B)**

**Computer Science Department,**

**Himachal Pradesh University,**

**Shimla**

" **Temple Finder** : We made Website to explore religious temple sites."

**A PROJECT REPORT**

**By**

**VAIBHAV SINGH THAKUR**

**"38220010093"**

*SUBMITTED TO*

**HIMACHAL PRADESH UNIVERSITY – SHIMLA**

*IN*

*PARTIAL FULFILLMENT OF THE REQUIREMENTS*

*FOR THE DEGREE*

*OF*

**MASTER OF COMPUTER APPLICATION (MCA)**

**Batch : 2022-2024**

**Under the Supervision of**

**" DR. KISHORI LAL BANSAL "**

**DEPARTMENT OF COMPUTER SCIENCE**

**HIMACHAL PRADESH UNIVERSITY, SUMMER-HILL**

**SHIMLA - 171005**

# CERTIFICATE

It is certified that the project titled **" Temple Finder : We made website to explore religious sites & unexplored temples location."** has been carried out by **Vaibhav Singh Thakur** having

exam roll no. **38220010093** a bonafide student of **MCA IV$^{th}$** semester, **Computer Science Department, Himachal Pradesh University, Shimla.**

The project is a record of the work accomplished during the fourth semester of MCA as a partial fulfillment of the requirement for the award of degree in **Masters in Computer Application (MCA)**, under my guidance.

I wish him success in his career.

Dated : 04/06/2024

**Prof. Kishori Lal Bansal**

(Dr. K. L. Bansal)
Professor
Computer Science Deptt.
H.P. University, Shimla-5

Department of Computer Science

Himachal Pradesh University

Shimla-171005

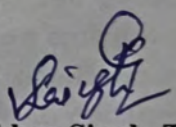
# DECLARATION

I, **Vaibhav Singh Thakur** S/o Shri. Kuljeet Singh.

Exam Roll Number **38220010093**, a student of MCA IV$^{th}$ semester, Computer Science Department, Himachal Pradesh University hereby declare that the project titled " **Temple Finder : We made Website to explore religious temple sites.**",

submitted with the Computer Science Department, HP University, as a partial fulfillment of the requirement for the award of degree in

Masters in Computer Application (MCA),has been carried out by me under the guidance of **Prof. Kishori Lal Bansal.** The project is an original piece of work and has not formed the basis for the award of any other degree/diploma.



Dated: 04/06/2024

**Vaibhav Singh Thakur**

Exam roll no.:- 38220010093

Class Rollno:- 22198

Class:- MCA (B)

# "OPEN CART"
# SOFTWARE TESTING

A PROJECT REPORT

BY

**"VIKRAM SINGH"**

"38220010094"

SUBMITTED TO

HIMACHAL PRADESH UNIVERSITY - SHIMLA

IN

PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE

**OF**

MASTER OF COMPUTER APPLICATION
(MCA)
Session: 2022-24

Under the Supervision of

DR. MANU SOOD

DEPARTMENT OF COMPUTER SCIENCE
HIMACHAL PRADESH UNIVERSITY SHIMLA

# CERTIFICATE

This is to certify that the project titled **"OPEN CART"** submitted to Department of Computer Science, Himachal Pradesh University in partial fulfillment of the requirement for the award of the degree of **Master of Computer Applications (MCA),** is an original work carried out by **VIKRAM SINGH,** Roll No. **38220010094,** under the guidance of **Prof. Manu Sood.**

The report submitted by the student is the work of student himself and he has fulfilled the requirements of completing his work during the training.

I wish him success in his career.

---

**Signature of Project Guide**

**Date:** 03/07/2024

**Place:** Shimla

**Prof. Manu Sood**

**Department of Computer Science,**

**HP University, Shimla**

# DECLARATION

I **Vikram Singh** declare that I have undertaken 6 months of Software Training at **Solitaire Infosys Pvt. Ltd.** During a period from JAN 2024 to JUNE 2024 in partial fulfilment of requirements for the award of the degree of master in computer application at **Himachal Pradesh university, Shimla.** The work which is being presented in the training report submitted to the **COMPUTER SCIENCE** is an authentic record of training work.

Vikram.

Signature of the Student

Signature of the Examiner

Prof. MANU SOOD

Department of computer science

Himachal Pradesh University Shimla

# SAAVI WEB INFOTECH LTD

PROJECT REPORT
**By**

**VINAY KUMAR**

**SUBMITTED TO**

**HIMACHAL PRADESH UNIVERSITY SUMMERHILL**

IN

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF

MASTER OF COMPUTER APLLICATION(MCA)

**(SESSION 2022 – 2024)**

**Under the Supervision of**
**DR. AJ SINGH**

**DEPARTMENT Of COMPUTER SCIENCE**
**HIMACHAL PRADESH UNIVERSITY SUMMERHILL,**
**SHIMLA - 171005**

## CERTIFICATE

It is certified that the project titled **SAAVI WEB INFOTECH LTD** submitted to DEPARTMENT OF COMPUTER SCIENCE, HIMACHAL PRADESH UNIVERSITY, SHIMLA-171105 in partial fulfilment of the requirement for the award of the degree of MASTER OF COMPUTER APPLICATION(MCA) session 2022-2024 has been carried out by Mr. VINAY KUMAR WITH enrolment no.38220010095 under by guidance.

I wish him/her success in his/her career.

A. J. Singh

4 July 2024

GUIDE SIGNATURE

## CERTIFICATE OF ORGANILITY

### DECLARATION

This is to certified, that the project report titled "**SAAVI WEB INFOTECH LTD** " submitted by me in an out come of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other university/Institute from the fulfilment of the requirements of any course of study.

VINAY KUMAR

DATE:

EXAM ROLL NO.: 38220010095

# THE BOOK CLUB

A PROJECT REPORT

By

**YASHIKA RAJTA**

**38220010096**

SUBMITTED TO

**HIMACHAL PRADESH UNIVERSITY - SHIMLA**

IN

PARTIAL FULFILMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

**MASTER OF COMPUTER APPLICATION (MCA)**

**Session: 2022-24**

Under the Supervision of

**Dr. Arvind Kalia**

**DEPARTMENT OF COMPUTER SCIENCE HIMACHAL PRADESH UNIVERSITY SHIMLA-171005, INDIA**

# Certificate from the guide

This is to certify that the project report entitled **"THE BOOK CLUB"** submitted to **Department of Computer Science, Himachal Pradesh University, Shimla - 171005** in partial fulfillment of the requirement for the award of the degree of **MASTER OF COMPUTER APPLICATIONS (MCA)** Session 2022-24 has been carried out by **Ms. YASHIKA RAJTA**, with enrolment no. **38220010096** under my guidance.

I wish her all the best for the future.

Dated:

**(Dr.Arvind Kalia)**
**Professor,**
Department of Computer Science,
Himachal Pradesh University Shimla.

# Declaration

This is to certify, that the Project Report titled **"THE BOOK CLUB"** submitted by me is an outcome of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University / Institute for the fulfillment of the requirements of any course of study.

Yashika Rajta

Dated: 5/7/2024

**Yashika Rajta**
Exam Roll No. **: 382200100696**
Class : **MCA (B)**
**Computer Science Department**
**Himachal Pradesh University Shimla**

# Department of Physical Education

## Allotment of Supervisors for Research Proposal and Dissertation of M.P.Ed and M.A. (Phy. Edu.) for the Academic Session 2022-2024

| Sr. No | Roll No | Student Name | Class | Supervisor Name |
|---|---|---|---|---|
| 1 | 201 | Shakshi Thakur | M.P.Ed | Dr. Sanjay Sharma |
| 2 | 202 | Umesh Kumar | M.P.Ed | Dr. Hari Singh |
| 3 | 203 | Kartik Chauhan | M.P.Ed | Dr. Manohar Lal |
| 4 | 204 | Preeti Thakur | M.P.Ed | Dr. Shamsher Singh |
| 5 | 205 | Roshni Devi | M.P.Ed | Dr Vikrant Bhardwaj |
| 6 | 206 | Rama Devi | M.P.Ed | Dr. Gaurav |
| 7 | 207 | Mali Devi | M.P.Ed | Dr. Anil Kumar |
| 8 | 208 | Sachin Jobtha | M.P.Ed | Dr. Sanjay Sharma |
| 9 | 209 | Mukesh Kumar | M.P.Ed | Dr. Hari Singh |
| 10 | 210 | Rajat Mantan | M.P.Ed | Dr. Manohar Lal |
| 11 | 211 | Pallavi Sharma | M.P.Ed | Dr. Shamsher Singh |
| 12 | 212 | Nisha | M.P.Ed | Dr. Sanjay Sharma |
| 13 | 213 | Guddi Devi | M.P.Ed | Dr. Hari Singh |
| 14 | 214 | Rakesh Kumar | M.P.Ed | Dr. Manohar Lal |
| 15 | 215 | Ravinder Singh | M.P.Ed | Dr. Shamsher Singh |
| 16 | 216 | Rakesh Kumar | M.P.Ed | Dr. Sanjay Sharma |
| 17 | 217 | Bharat Kamal | M.P.Ed | Dr. Hari Singh |
| 18 | 218 | Kanta Devi | M.P.Ed | Dr. Manohar Lal |
| 19 | 3301 | Ayush Negi | M.A. (Phy.Edu) | Dr. Shamsher Singh |
| 20 | 3302 | Samiksha | M.A. (Phy.Edu) | Dr. Sanjay Sharma |
| 21 | 3303 | Ritik Verma | M.A. (Phy.Edu) | Dr. Hari Singh |
| 22 | 3305 | Geeta Devi | M.A. (Phy.Edu) | Dr. Manohar Lal |
| 23 | 3306 | Chander Mohan Kewla | M.A. (Phy.Edu) | Dr. Shamsher Singh |
| 24 | 3307 | Deepak Sharma | M.A. (Phy.Edu) | Dr Vikrant Bhardwaj |
| 25 | 3308 | Sourav Sharma | M.A. (Phy.Edu) | Dr. Gaurav |
| 26 | 3309 | Kishore Kumar | M.A. (Phy.Edu) | Dr. Anil Kumar |
| 27 | 3310 | Pankaj Nanda | M.A. (Phy.Edu) | Dr. Sanjay Sharma |
| 28 | 3312 | Sarvesh | M.A. (Phy.Edu) | Dr. Hari Singh |
| 29 | 3313 | Neha | M.A. (Phy.Edu) | Dr. Manohar Lal |
| 30 | 3314 | Neeraj Tomar | M.A. (Phy.Edu) | Dr. Shamsher Singh |

Chairperson
Department of Physical Education

HIMACHAL PRADESH UNIVERSITY
REGIONAL CENTRE MOHALI DHARAMSHALA. (HP)

**Attendance Sheet for Evaluation of Project Report and Viva-Voce Examination**

**(Course code: MC-405) of M.Com 4th semester students session 2022-2024**

**Dated: 19 -07-2024**
**& 20-07-2024**

| Sr. No. | University Roll No. | Student Name | Signature |
|---|---|---|---|
| 1. | 35222950001 | Abhishek Kumar | Abhishek Kumar |
| 2. | 35222950002 | Akanksha | Akanksha |
| 3. | 35222950003 | Akanksha | Akanksha |
| 4. | 35222950004 | Akshita | Akshita |
| 5. | 35222950005 | Alisha Kapoor | Alishakapoor |
| 6. | 35222950006 | Amit Kumar | Amit |
| 7. | 35222950007 | Anjali Devi | Anjali Devi |
| 8. | 35222950008 | Anjali Kutleria | Anjalikutleria |
| 9. | 35222950009 | Anshika | Anshika |
| 10. | 35222950010 | Arushi Mankotia | Arushi |
| 11. | 35222950011 | Babita Devi | Babita Devi |
| 12. | 35222950012 | Bhargavi Singh | Bhargavi |
| 13. | 35222950013 | Chirag Kaushal | Chirag |
| 14. | 35222950014 | Deepali | Deepali |
| 15. | 35222950015 | Geetesh Thakur | Geetesh |
| 16. | 35222950016 | Hanisha Mahajan | Hanisha |
| 17. | 35222950017 | Happy Singh | Happy Singh |
| 18. | 35222950018 | Harshit Kohli | Harshit |
| 19. | 35222950019 | Hina Thakur | Hina Thakur |
| 20. | 35222950020 | Jagriti | Jagriti |
| 21. | 35222950021 | Jyoti Devi | Jyoti |
| 22. | 35222950022 | Jyoti Sharma | Jyoti Sharma |
| 23. | 35222950023 | Kajal | Kajal |
| 24. | 35222950024 | Kartikay Sharma | |
| 25. | 35222950025 | Kavita Bhardwaj | Kavita |

| | | | |
|---|---|---|---|
| | | Kritika Devi | Kritika |
| 27. | 35222950027 | Laxmi Kashyap | Laxmi Kashyap |
| 28. | 35222950028 | Madhu | Madhu |
| 29. | 35222950029 | Madhu Bala | Madhu Bala |
| 30. | 35222950030 | Manish Kumar | Manish Kumar. |
| 31. | 35222950031 | Manjeet | |
| 32. | 35222950032 | Minakshi | Minakshi. |
| 33. | 35222950033 | Nandini Katoch | Nandini |
| 34. | 35222950034 | Nandni | Nandni |
| 35. | 35222950035 | Nivedita | Nivedita |
| 36. | 35222950036 | Pallavi | Pallavi |
| 37. | 35222950037 | Pallavi | Pallavi |
| 38. | 35222950038 | Pooja Devi | Pooja |
| 39. | 35222950039 | Poonam Kumari | Poonam kumari |
| 40. | 35222950040 | Prachi Chauhan | Prachi |
| 41. | 35222950041 | Priya Devi | Priya Devi |
| 42. | 35222950042 | Priyanka Devi | Priyanka Devi |
| 43. | 35222950043 | Rashi Kaushal | Rashi kaushal. |
| 44. | 35222950044 | ReetaKumari | Reeta kumari |
| 45. | 35222950045 | Ripika | Ripika |
| 46. | 35222950046 | Rishi Kaushal | |
| 47. | 35222950047 | Riya Devi | Riya Devi |
| 48. | 35222950048 | Riya Devi | Riya |
| 49. | 35222950049 | Rohit Kumar | Rohit Kumar. |
| 50. | 35222950050 | Ruby | Ruby. |
| 51. | 35222950051 | Sachin Kumar | |
| 52. | 35222950052 | Sahil | Sahil |
| 53. | 35222950053 | Sahil Kumar | Sahil |
| 54. | 35222950054 | Sakshi Devi | |
| 55. | 35222950055 | Sakshi Sharma | Sakshi |
| 56. | 35222950057 | Shagun Dogra | Shagun Dogra. |
| 57. | 35222950058 | Shakshi | Shakshi |
| 58. | 35222950059 | Shalini | Shalini |
| 59. | 35222950061 | Sheetal Sharma | Sheetal. |

| | | | |
|---|---|---|---|
| 60. | 35222950062 | Shivam Sharma | Shivam |
| 61. | 35222950063 | Shubham Rana | Shubham |
| 62. | 35222950064 | Shubhankar Pathania | |
| 63. | 35222950065 | Shubhkaran | |
| 64. | 35222950066 | Shweta Patial | |
| 65. | 35222950068 | Someshwar Kumar | |
| 66. | 35222950069 | Swati Thakur | |
| 67. | 35222950070 | Tamanna Thakur | |
| 68. | 35222950071 | Tanisha Rana | |
| 69. | 35222950072 | Twinkle Koushal | |
| 70. | 35222950073 | Urvashi | |
| 71. | 35222950074 | Vaishali Sharma | |
| 72. | 35222950075 | Vaishnavi Dhiman | |
| 73. | 35222950077 | Vanita Chandel | |
| 74. | 35222950078 | Veer Singh | |
| 75. | 35222950079 | Virendar Katiyal | |
| 76. | 35222950080 | Vishal Kumar | |
| 77. | 35222950081 | Vishal Thakur | |
| 78. | 35220021107 | Deeksha Kumari | |

**HIMACHAL PRADESH UNIVERSITY**
**REGIONAL CENTRE MOHALI DHARAMSHALA. (HP)**

**Project Reports of M.Com 4th semester students session 2022-2024**

| Sr. No. | University Roll No. | Student Name | Project Topic | Supervisor Name |
|---|---|---|---|---|
| 1. | 35222950001 | Abhishek Kumar | Human Resource Management in Banking sector: A study of State Bank of India | Dr. Kuldeep Kumar Attri |
| 2. | 35222950002 | Akanksha | Saving and Investment Patterns of Households At Dharmshala | Dr. Kuldeep Kumar Attri |
| 3. | 35222950003 | Akanksha | Perception of Students towards offline and online classes | Dr. Kuldeep Kumar |
| 4. | 35222950004 | Akshita | Preferences towards Cosmetic Brands Among Girls of Age Group 20-25 Years in Himachal Pradesh | Dr. Kuldeep Kumar |
| 5. | 35222950005 | Alisha Kapoor | From Likes to Leads : The Conversion Potential of Social Media Marketing | Mrs. Shilpa Rani |
| 6. | 35222950006 | Amit Kumar | Marketing Strategies of Vishal Mega Mart | Dr. Kuldeep Kumar |
| 7. | 35222950007 | Anjali Devi | A study of Customer Satisfaction on Zomato with Special Reference to Students of HPU | Dr. Kuldeep Kumar Attri |
| 8. | 35222950008 | Anjali Kutleria | A study on Consumer Satisfaction and Preception Towards online Food Delivery Apps with Special Reference to Zomato and Swiggy | Dr. Kuldeep Kumar Attri |
| 9. | 35222950009 | Anshika | An Analysis on E-Banking Services – Study of HDFC Bank | Dr. Kuldeep Kumar |
| 10. | 35222950010 | Arushi Mankotia | Consumer Behaviour on Online Shopping- A Study of Himachal Pradesh | Mrs. Shilpa Rani |
| 11. | 35222950011 | Babita Devi | Job Satisfaction of Employees in Private Sector Bank | Dr. Kuldeep Kumar |
| 12. | 35222950012 | Bhargavi Singh | Evaluation of Marketing strategies of Himachal Drug Company with special reference to Dharmshala city | Dr. Kuldeep Kumar |
| 13. | 35222950013 | Chirag Kaushal | Usage of Technology (Mobiles Phones and Computer )among University Students | Mrs. Shilpa Rani |
| 14. | 35222950014 | Deepali | Consumer Buying behavior towards LG Brand | Dr. Kuldeep Kumar |
| 15. | 35222950015 | Geetesh Thakur | Analysis of Consumer preference Towards XAIOMI Mobile | Dr. Kuldeep Kumar |
| 16. | 35222950016 | Hanisha Mahajan | Investment Behaviour of Rural People in Himachal Pradesh- A case study of Distt. Chamba | Mrs. Shilpa Rani |
| 17. | 35222950017 | Happy Singh | Customer Satisfaction towards Market –Mix Strategies Adopted by COCA- COLA Company | Mrs. Shilpa Rani |
| 18. | 35222950018 | Harshit Kohli | A Study of Brand Preferences on Mobile Phones Among Youth | Mrs. Shilpa Rani |
| 19. | 35222950019 | Hina Thakur | Leveraging Digital Channels for Enhancing Customer Experience and Analysis of Micro-market at Dharmshala | Dr. Kuldeep Kumar Attri |
| 20. | 35222950020 | Jagriti | Impact of Tourism on Socio Economic Status of Locals in Distt Kullu of Himachal Pradesh | Dr. Kuldeep Kumar Attri |
| 21. | 35222950021 | Jyoti Devi | Evaluation of marketing strategies of Himalayan Drug Company with reference to | Mrs. Shilpa Rani |

| | | | | |
|---|---|---|---|---|
| | | | Dharmshala city | |
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# A Study on Customer Satisfaction on Google Pay in B.B.M.B Colony Sundernagar

**A**

**Project Report**

**Submitted to Himachal Pradesh University,**

**Regional Centre Khaniyara, Dharamshala For the award**

**of the degree of Master of Commerce(2022-2024)**


**Supervised By:**

Dr. Kuldeep Kumar Attri

**Submitted By:**

Tamanna Thakur



**Department of Commerce**

**Himachal Pradesh**

# CERTIFICATE

This is to certify that the project entitled **"A Study on Customer Satisfaction on Google Pay in B.B.M.B Colony Sundernagar"** submitted by Tamanna Thakur, Roll No. 35222950070 a student of M.COM 4th semester is a genuine work carried out under my supervision and guidance. The references and help taken from various sources have been duly acknowledged. The Project is worthy of consideration for award of degree of Master of Commerce of Himachal Pradesh University, Regional Centre Khaniyara, Dharamshala.

**PLACE:** **Signature of supervisor**

**DATE:** **Dr Kuldeep Kumar Attri**

# DECLARATION BY THE CANDIDATE

I, Tamanna Thakur hereby declare that the project entitled **"A Study on Customer Satisfaction on Google Pay in B.B.M.B Colony Sundernagar**" has been personally done by me under the guidance of Dr. Kuldeep Kumar Attri in partial fulfilment of M.COM degree during the academic year 2022-2024. All the data represented in this project is true & correct to the best of my knowledge & belief. I also declare that this project is my own preparation and not copied from anywhere else**.**

**Tamanna Thakur**
**University Roll No.**
**35222950070**

# ACKNOWLEDGEMENT

I feel great pleasure for the completion of this project. At the very outset, I would like to take this opportunity to express my deepest gratitude to my advisor Dr. Kuldeep Kumar Attri for providing excellent guidance, encouragement, and inspiration throughout the project work. His extreme energy, creativity, and constant supervision have always been a constant source of motivation for me. Without his invaluable guidance, this work would never been a successful one. I would like to thank all my friends who directly or indirectly encouraged and supported me throughout this project. Last but not the least I would like to dedicate this work tomy amazingly loving parents and sisters who gave me a constant support and love throughout my life and career.

**PLACE:** **Tamanna Thakur**

**DATE:**

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# CHAPTER-1

# INTRODUCTION

## 1.1 INTRODUCTION:

The “Digital India” is the Indian Government’s flagship program with a vision to convert India into a digitally empowered country. “Faceless, Paperless, Cashless” is one of supposed function of Digital India. Digital payment system has gained importance nowadays, especially after demonetization. The governmentis taking essential steps to encourage the public to use payment gateway platforms. To promote payment gateways, it has declared discounts on purchases of certain products digitally. It has also introduced UPI (United Payment Interface) which is app based to transact across multiple banks. Another improved versionis set to be unveiled by the government, which makes banking transactions though mobile phones without internet by a platform called USSD (Unstructured Supplementary Service Data). These initiatives have provided extensive boost up to the digital payment system in the country. Government’s other initiatives like BHIM and UPI are supporting in transition and faster adoption of digital payments. Electronics consumer transaction made at point of sale (POS) for services and products either through internet banking or mobile banking using smart phone or card payment are called as digital payment. In today’s digital era the usage of internet has increased dramatically. Nowadays the customers are adopting the digital devices in order to spend less time on banking. This digital payment is very useful to transact funds without taking any risk and easy to handle and make use of it. We all have witnessed how technologies have been growing in modern world as a result the online payment apps also introduced, and it has been successful among customers. Major people who live in urban areas are adapted to this digital payment system. However, very low number of people who lives in rural areas still don’t know the importance and services of these online payment apps.

## 1.2 INDUSTRY PROFILE:

Mobile wallet or e wallet is an app that consists of debit and credit card information which helps the users to pay for goods and services digitally using their mobile devices. Popular online payment apps or e wallets which are used in India includes:

**Payzapp**

Payzapp is a complete payment solution that empowers an individual to pay with the help of just one click. The app allows individuals to buy products from the partner apps, book movie tickets, send money to anyone and pay utility bills among many other things.

**Phone pe**

Phone pe is an Indian digital wallet platform and online payment company. Using Phone pe, users can send and receive money, recharge mobile, DTH, data cards, make utility payments, pay at shops, invest in tax saving funds, liquid funds, buy insurance and mutual funds for gold.

**Paytm**

Paytm (a partial abbreviation for 'Pay through mobile') is an Indian multinational e-commerce payment system and financial technology company based in Noida, Uttar Pradesh, India. Paytm is currently available in 11 Indian languages and offers use cases like mobile recharges, utility bill payments, travel, movies and as well as in store payment at grocery stores and educational institutions with the Paytm QR code. Paytm is one of the most popular mobile wallets in India that offers users an online payment platform for secure transactions. Paytm is available on both platforms, Android, and iOS.

**Kotak 811**

Kotak 811 is a zero-balance digital bank account available to everyone (Resident Indian individuals only). Kotak 811 lets you choose between zero balance account, or an 811-edge savings account based on your needs, which acts as one stop solution for all your financial needs and day to day transactions.

**Bhim app**

Bhim (Bharat interface for money) is an Indian mobile payment app developed by the national payments corporation of India (NPCI), based on the unified payments interface (UPI). Named after B.R. Ambedkar and launched on 30 December 2016, it is intended to facilitate e-payments directly through banks and drive towards cashless transactions.

**Free charge**

Free charge, a wholly owned subsidiary of Axis bank limited, is one of the e-payment applications which is based out Gurugram, Haryana. Using free charge, users can pay utility bills, mobile recharges, broadband recharges, metro card recharge, pay landline bills, DTH bills.

Other than these e wallets or online payment applications Google Pay is one of the most popular and used app in India.

## 1.3 ABOUT GOOGLE PAY APP :

Google Pay is a digital wallet platform and online payment system developed by Google to power-in-app and tap-to-pay purchases on mobile devices, enabling users to make payments with android phones, tablets, or watches. It took over the branding of google chromes autofill feature. Google pay adopts the features of both androids pay and google wallet through its instore, peer-to-peer and online payment services.

Google pay uses Near Field Communication (NFC) to transmit card information facilitating funds transfer to the retailer. It replaces the credit or debit card chip and pin or magnetic stripe transaction at point-of- sale terminals by allowing the user to upload these in the Google Pay wallet. It is similar to contactless payments already used in many countries, with the addition of two-factor authentication. The service lets android devices wirelessly communicate with point-of-sale systems using a near field communication (NFC) antenna, host-based card emulation (HCE), and android's security.

Google Pay takes advantage of physical authentications such as fingerprint ID where available. On devices without fingerprint ID, Google pay is activated with a passcode. When the user makes a payment to a merchant, Google Pay does not send the credit or debit number with the payment. Instead, it generates a virtual account number representing the users account information. This service keeps customer payment information private, sending a one-time security code instead of the card or user details.

The app is currently available for the users of 42 countries.

Google Pay's tagline is "**Money made simple**".




## 1.4 HISTORY OF GOOGLE PAY :

Google Pay was the company's first mobile wallet payment system, developed for Android devices in 2011. In 2015, It was renamed as Android Pay, with Google Wallet refocused to strictly peer-to-peer (P2P)payments released at Google I/O. The technology of Android Pay was influenced by soft card's technology. Google then launched the payment app, Tez on September 18, 2017, pivoting the UPI system.Tez was later rebranded to Google Pay on August 28, 2018.

The founders of Google Pay are Sujith Narayanan and Sumit Gwalani.

Presently 200-250 million of people are using a mobile wallet which is expected to grow to about 500 million users in further. Most of the mobile wallets are offering cashback offer and discounts for an online payment transaction to motivate the customer to do online payment.

## 1.5 STEPS TO USE GOOGLE PAY :

In the case of First Payment using Google Pay App.

- Firstly, the user has to install Google Pay app from the Play Store in his mobile phone.
- Registered user will input his phone number and the provider will send him an SMS along with a PIN.
- The user will enter the received PIN, authenticating the number.
- Now the user has to input his credit card information or another payment method if required (not required if the account has already been added) and will proceed to validate the payments.

**For Subsequent Payments through Google Pay App:**

• The user will have to re-enter the PIN to authenticate and validate the payment process.

## 1.6 BENEFITS OF USING GOOGLE PAY APP :

- **Improved Comfort:** -

Having all the necessary cards and other important data in an app, there is no need for keeping dozens of cards and papers inside of a wallet, purse, or backpack as well as for wasting time searching for them. Everything we need now is close at hand, easily managed, and easy to use.

- **Time Saving**: -

Such an app allows the queues in the stores to move faster since the payment is done in less than a minute. In case of online shopping, the digital wallet saves time on entering the credit card details and identification because everything is already confirmed within the app.

- **Better expenses tracking**: -

The information about all the transactions we do is stored inside the app which allows us to analyze it after each week or month in order to control the expenses better. If it is hard to stay in budget, we can set up limits for particular categories of expenses that will prevent us from wasting too large sums of money.

- **Enhanced Security**: -

All the data we have in the app is encrypted and never sent to third-party organizations. So, the online market we shop at will never know the details of our payment. Moreover, the transactions have to be confirmed by us (fingerprint, password) and digital card wallet is additionally protected by our device's security system (Face ID, fingerprints, passwords).

- **Special Rewards**: -

Google Pay provide users with additional bonuses and special offers in order to stimulate the utilization of their app. It means we not only get a chance to pay for the purchases faster and simpler but also get pleasant perks.

- **Lower Costs**: -

This benefit refers mainly to companies like stores that hire people to complete sales and take the customer's money. The growth of the Google Pay as a digital wallet will possibly eliminate the need for cashiers at the checkouts saving companies a lot of money each month.

- **No problem of Change**: -

The exact amount of money can be transferred from one account to another account, there is no change in the amount being transferred.

# CHAPTER-2

# RESEARCH DESIGN

## 2.1 REVIEW OF LITERATURE:

**Doan** (2014) conducted a study to understand consumer adoption on mobile wallets in Finland area. This research was designed in a quantitative method using questionnaire which was sent to potential respondents in Finland. The study measures the market condition of mobile wallets users. The study findings reveal that the usage of mobile wallet is only in the initial stage and respondents are showing positive attitudes towards usage of mobile wallets. Research concluded that the trust factor reveals the positive or negative impact on adoption of user, depending on the user satisfaction and user's situation

**Govender & Sihlali** (2014) explored the factors determine the adoption of mobile banking (m- banking) services among students who are more technically knowledgeable. The questionnaire is prepared based on the qualitative approach. Based on the extension of the Technology Acceptance Model, the theoretical framework is developed to investigate the factors that determine student's acceptance of mobile banking. Theconstructs of TAM for mobile adoption such as Perceived Ease of Use, Perceived usefulness, Perceived Value, Trust Intention to Use, and Usage Behavior were used. The statistical tool multiple regression analysis was used to examine the influence of independent variables on the dependent variable of intention to use m-banking. The independent variables trust, perceived value, perceived ease of use and social influence may account for 42percent on the influence of dependent variable.

**Cabanillas et.al.,** (2015) have developed a model to examine user's intention to use mobile payment based on TAM and MPTAM (Mobile Payments Technology Acceptance Model). The study was investigated the moderator effect of the user's age between the subjective rules and the facility of use. The survey has been conducted among the 2012 national panel of internet user (physical & virtual). The analysis of data shows that an internet user's behavior is influenced by their intention to use new tools. The study findings show thatmost of the younger mobile payment users are satisfied and accepted the mobile technology tools when compared to older mobile users. This study has indicated that older consumers are the stronger relationship between facility to use and subjective rules. So, the mobile technology provider should give more attention toolder consumers to create knowledge about usable of new tools.

**Meuthia** (2015) has investigated that empirically the experiences of users' satisfaction on e-money adoption in Indonesia. In this study the trust was considered as an important factor for e-money adopt, and at the time of promotes the system quality and participation. The data was collected from 117 e-money respondents in Indonesia. The result shows that users' satisfaction is determined based on system quality and participation of users. The research proposed that trust factors have high level followed by the other stimulants variables. The study concluded that trust and distrust were strongly influenced the level of users' satisfaction on e-money adoption in Indonesia.

**Liu & Tai** (2016) have conducted a study in Vietnam to analyze the factors influencing the consumer's intention to use mobile payment services. The variables considered for the study to determine consumer's intention to use of mobile payment services is mobility, mobile payment knowledge, convenience, compatibility, ease of use, usefulness, risk, trust, and safety. The two variables namely perceived ease to use and perceived usefulness was extracted from the TAM model which was deemed as a suitable model to study consumers' response and behaviors when a new product is introduced. The data has been collected from 604 respondents. The result shows that among the four external variables compatibility has a strong influence on ease of use and perceived usefulness is found to be a positive impacton the intention to use M-payment. The study highlighted that trust and safety have no direct impact on usefulness, but it has a direct impact on the intention to use mobile payment. The study concluded that in Vietnam young people have greater intention to use mobile payment services when compared to older peopleand most of the consumers are not giving much importance to risk.

**Singh & Gupta** (2016) have conducted a study to identify various factors influence on the adoption of mobile wallet payment among customers They considered the various variables for the study are Convenience, Trust, Security, and Adaptability which have an impact on the satisfaction of mobile wallet usage. The study was conducted in the Kurali city, District of Punjab. Pearson's Correlation Analysis was to investigate the relationship between the different basic variables of the study. The study findings show that mobile wallets are considered as the futures of cash.

**Ahuja & Joshi** (2018) have studied about the customer perception concerning Mobile wallets. In this study they examined that the factors exploration technique is used to classify the factors which influence customer opinion towards Mobile wallets. The study has been conducted about the different types of mobile wallets in India. The data is collected from both secondary data and primary data. The survey was conducted among 139 mobile respondents in the telecommunication industry.

## 2.2 NEED OF THE STUDY:

Financial transactions are the backbone of any economy in the world. In India cash was always the king i.e., all the transactions in our country used to take place through the means of cash only. Nearly four of every five transactions used to take place through cash means during the year 2015, cash was the predominant mode of payment and was the base of our economy and this was because of digital illiteracy, lack of education, lack of infrastructure, low network connections in remote areas of our country and many more reasons.

But in 2017, Google Pay came into existence in India as Tez. Tez was later rebranded to Google Pay in 2018.The transaction process has become more convenient, transparent, and secure in nature with the help of such digital mode of Payment. If cashless transaction is adopted and implemented in India, then it will be easier to exchange currency while travelling to abroad countries. A cashless society leads to lower crime rateswhich is an advantage to the society. There will be no scenario of black money and can stop corruption once asociety is cashless and this can be done by adopting more and more digital mode of payment like Google Pay for various transactions. The need of the study is to investigate the benefits of using Google Pay application. The main agenda of this study is to find out whether this payment method has helped the customers or not and to evaluate the customers' satisfaction.

## 2.3 OBJECTIVES OF THE STUDY:

- To understand the concept of Google, Pay.
- To know the purpose of using Google Pay.
- To analyze the intention of users adopting the e wallet.
- To analyze the satisfaction of customers in the usage of Google Pay.
- To study the difficulties faced by the users in using payment application.
- To evaluate the relationship between demographic variables such as customer's age, gender, income, education, and perception of using e-wallets

## 2.4 SCOPE OF STUDY:

- The aim of the study is to determine the satisfaction of customers using Google Pay.
- The study is based on the data collection during the month of May and June 2022.
- Study is restricted to Sundernagar area of mandi district.

## 2.5 RESEARCH METHODOLOGY:

The data has been gathered from both primary as well as secondary sources. The secondary data is collected from various articles, newspapers, and journals. Whereas primary data is collected by sending a structured questionnaire on various social media platforms such as WhatsApp, Facebook, Instagram, to gather responses from individuals. 115 consumers were selected conveniently as samples. Study on the basis of primary data helps to understand the customer satisfaction on Google Pay and the factors that influence their adoption. Telephonic Interviews were also taken to ensure that valid data is achieved. The factors included in this study for the analysis are 'ease of use', 'usefulness', 'risk', 'attitude', 'security', and 'intension to use'.

This qualitative research study has been drawn as research methodology to explore the thoughts, perceptions, satisfaction, and experiences of respondents of using Google Pay from the consumers' perspectives. Primary data has been collected with pre-designed questionnaire and the secondary data has been collected from internet.

* The size of sample is 115 consumers for collecting the data.

* Simple random sampling technique has been used to complete the report.

**Sample Units:**

The respondents are people between the ages below 20 - above 50 whom can be divided into different categories i.e., students at college, students at university, private employees, govt employees and others.

**Statistical tools and techniques:**

- Table chart
- Pie chart

## 2.6 LIMITATIONS OF THE STUDY:

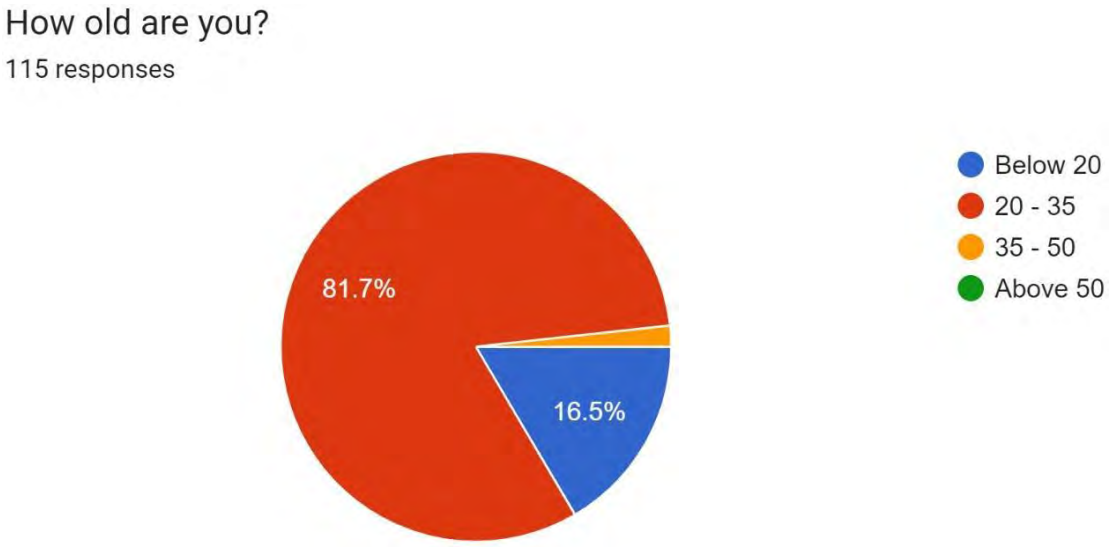
- The sample size of this project is 115, which cannot give accurate picture of the large population.
- The main source of data for the study was respondents from which the primary data were collected through questionnaire. Hence, the chance of biased information arises.
- The time for the study was limited.
- There was disinterest among people to fill this questionnaire which can lead to misleading information.

# CHAPTER-3

# DATA ANALYSIS AND INTERPRETATION

**Age wise distribution of respondents**

| Age | Number | Percentage |
|---|---|---|
| **Below 20** | **19** | **16.5** |
| **20 – 35** | **94** | **81.7** |
| **35 – 50** | **2** | **1.7** |
| **Above 50** | **0** | **0** |

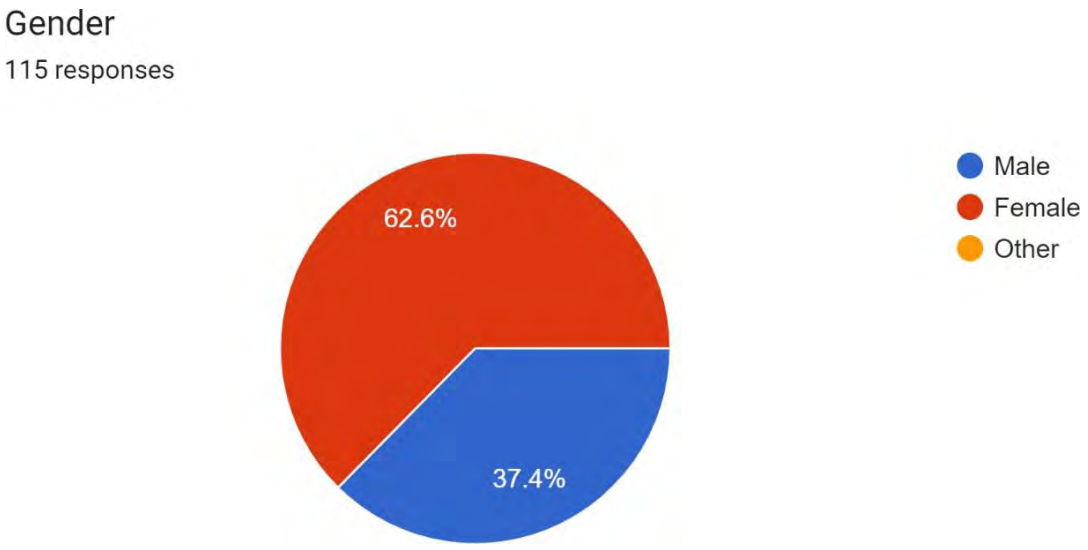



## INTERPRETATION:

Respondents in the age category of 20 – 35, account of 81.7% of the response, which indicates that younger generation has more participation in this project. This implies that online payments are of much use among young generation as compared to the rest.

**Gender wise distribution of respondents**

| Gender | Number | Percentage |
|---|---|---|
| **Male** | **43** | **37.4** |
| **Female** | **72** | **62.6** |
| **Others** | **0** | **0** |

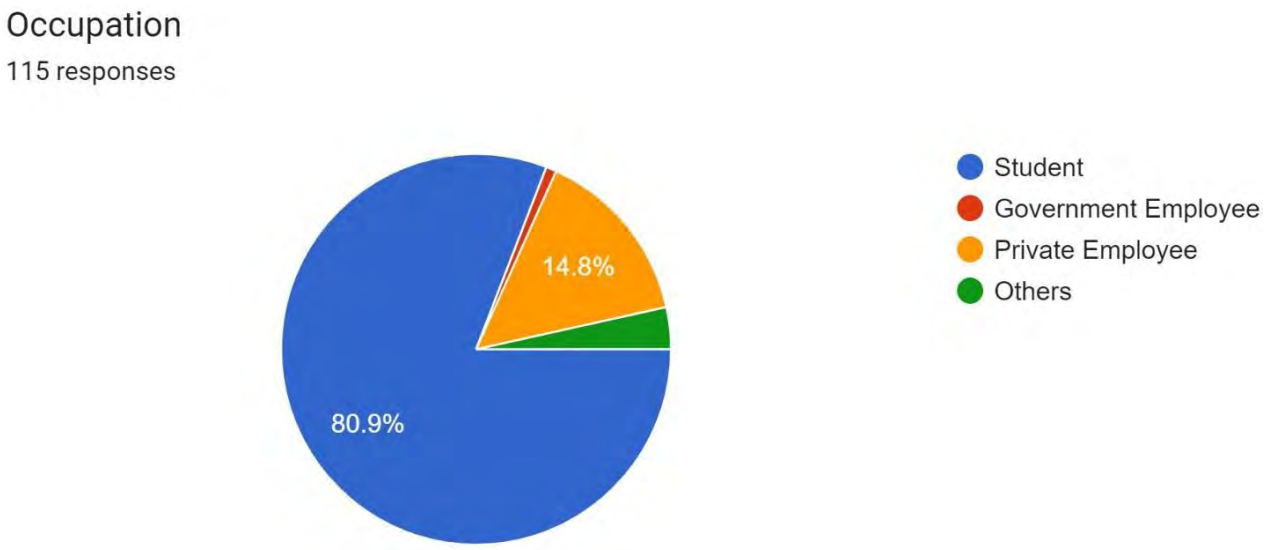



## INTERPRETATION:

A majority of 62.6% of respondents are females who use Google Pay and a majority of 37.4% are males This shows women use online payment more.

**Occupation wise distribution of respondents**

| Occupation | Number | Percentage |
|---|---|---|
| **Student** | **93** | **80.9** |
| **Government Employee** | **1** | **0.9** |
| **Private Employee** | **17** | **14.8** |
| **Others** | **4** | **3.5** |

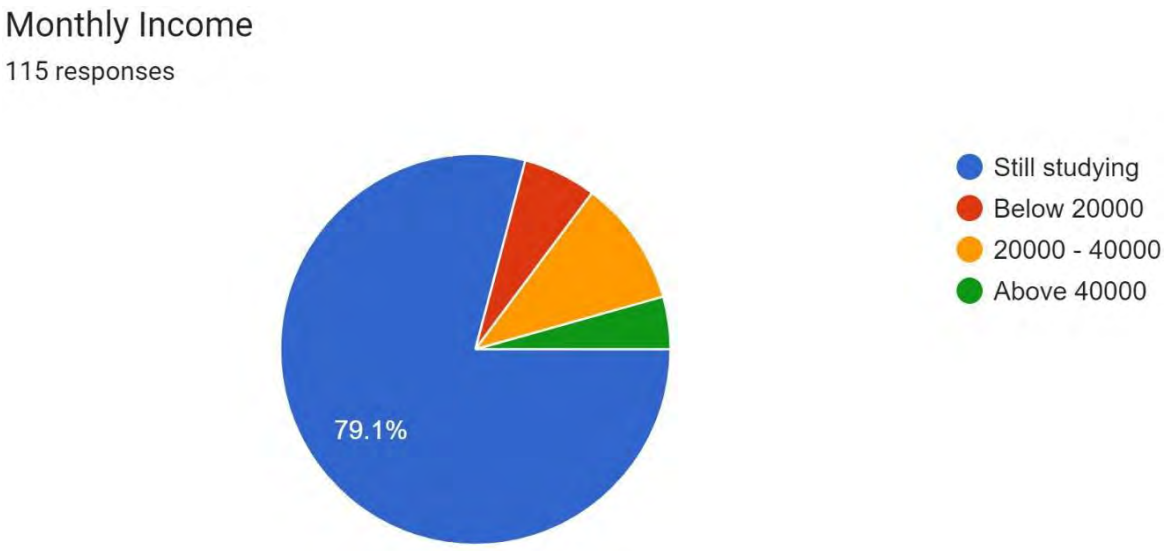



## INTERPRETATION:

A majority of 80.9% are students who use Google Pay. 14.8% of the respondents are private employees who use Google Pay.

**Income level wise distribution of respondents**

| Income level | Number | Percentage |
|---|---|---|
| **Still studying** | **91** | **79.1** |
| **Below 20000** | **7** | **6.1** |
| **20000 – 40000** | **12** | **10.4** |
| **Above 40000** | **5** | **4.3** |




## INTERPRETATION:

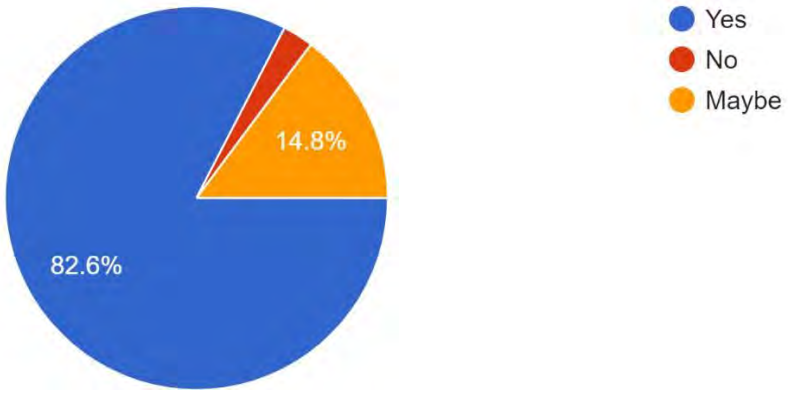
Respondents who are still studying and not employed anywhere uses Google Pay app most with the percentage of 79.1% .

**Online payment offers wider range of banking services and payment options**

| Particulars | Number | Percentage |
|---|---|---|
| **Yes** | **95** | **82.6** |
| **No** | **3** | **2.6** |
| **May be** | **17** | **14.8** |

1. Do you think using online payment can offer you a wider range of banking services and payment options?

115 responses




## INTERPRETATION:

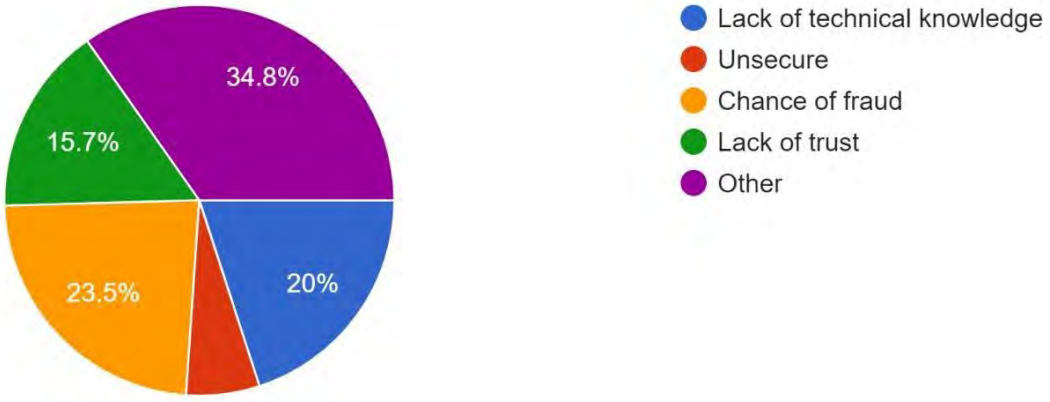
A majority of 82.6% of the respondents says Google Pay offer wider range of banking services and payment options and only 2.6% of the respondents doesn't support this statement.

**Statistics of respondents not using online payment**

| Particulars | Number | Percentage |
|---|---|---|
| **Lack of technical knowledge** | **23** | **20** |
| **Unsecure** | **7** | **6.1** |
| **Chance of fraud** | **27** | **23.5** |
| **Lack of trust** | **18** | **15.7** |
| **Other** | **40** | **34.8** |

2. Whether yes/no what can be the reason you think for not using online payment?

115 responses

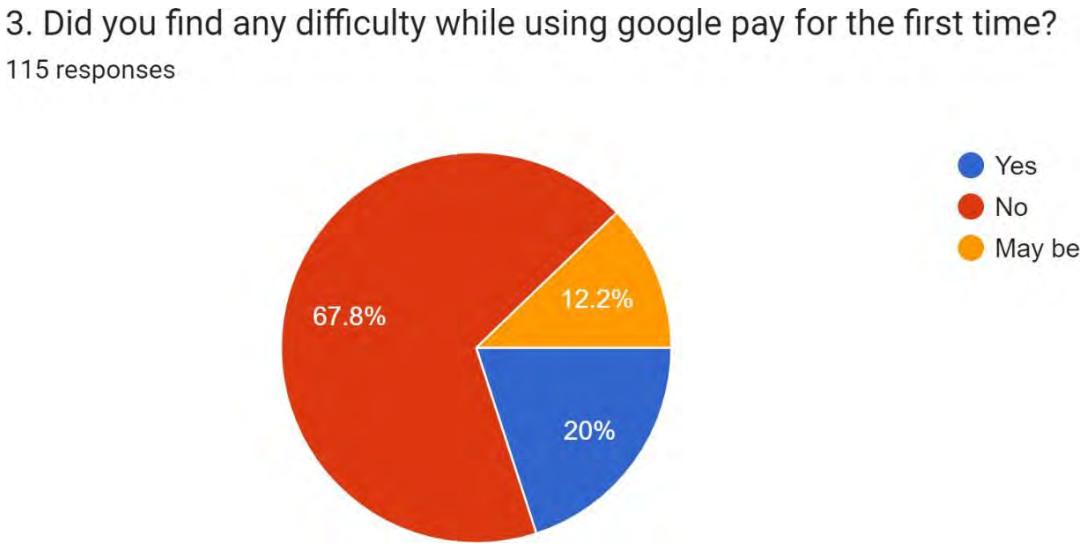



## INTERPRETATION:

According to respondents who are not using online payment are of the opinion that are not safe due to reasons such that of fraudulent activities, insecurity, lack of trust, technical issues etc.

**Statistics of respondents about having difficulty while using the app for the first time**

| Particulars | Number | Percentage |
|---|---|---|
| **Yes** | **23** | **20** |
| **No** | **78** | **67.8** |
| **May be** | **14** | **12.2** |

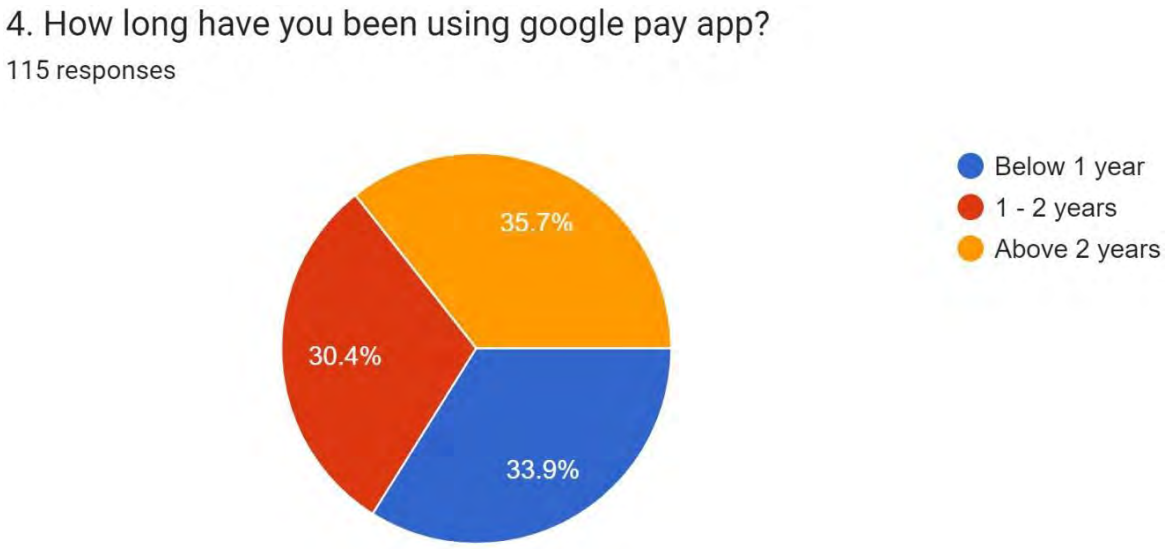



## INTERPRETATION:

A majority of 67.8% of respondents didn't find any difficulty while using Google Pay app for the first time this means it is easy to use and anybody can use it, while a majority of 20% did find it difficult to use Google Pay app for the first time.

**Respondent's usage of online payment app**

| Particulars | Number | Percentage |
|---|---|---|
| **Below 1 year** | **39** | **33.9** |
| **1 – 2 years** | **35** | **30.4** |
| **Above 2 years** | **41** | **35.7** |

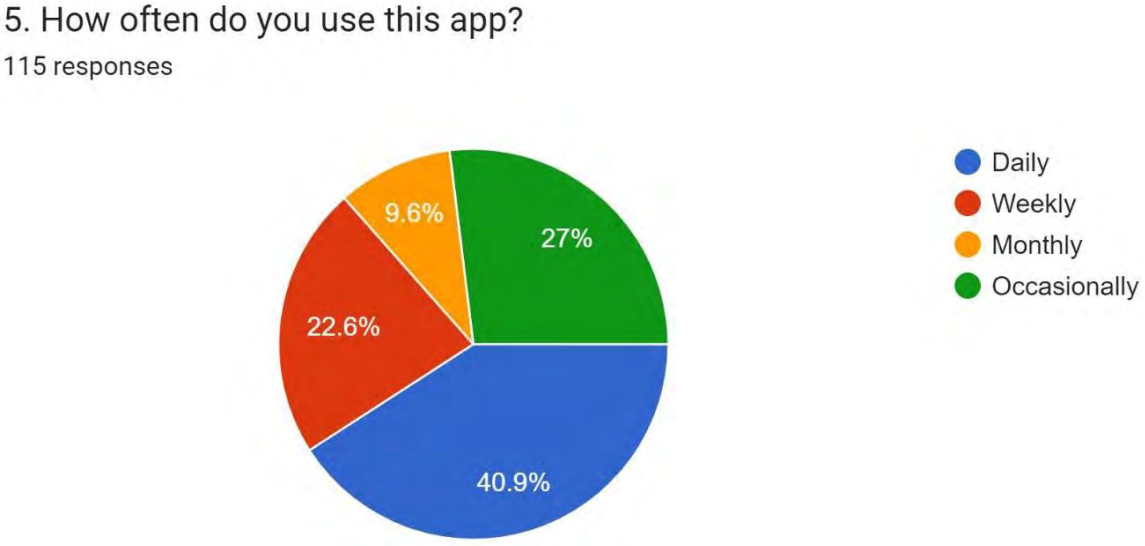



## INTERPRETATION:

35.7% of people have been using the payment app above two years and 33.9% below one year and 30.4% between one – two years.

**Usage of Google Pay app by respondents**

| Particulars | Number | Percentage |
|---|---|---|
| **Daily** | **47** | **40.9** |
| **Weekly** | **26** | **22.6** |
| **Monthly** | **11** | **9.6** |
| **Occasionally** | **31** | **27** |

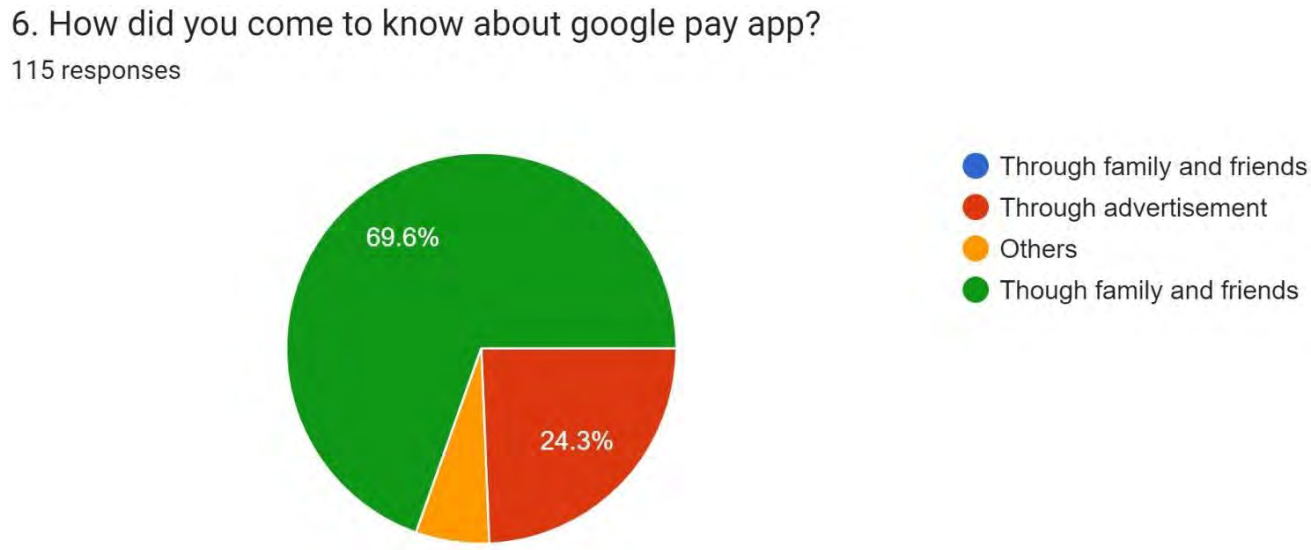



## INTERPRETATION:

Most of 40.9% of the respondents preferred to use Google Pay app daily for their transactions which shows increasing popularity of the application.

**Respondents came to know about the app**

| Particulars | Number | Percentage |
|---|---|---|
| **Through family and friends** | **80** | **69.6** |
| **Through advertisment** | **28** | **24.3** |
| **Others** | **7** | **6.1** |

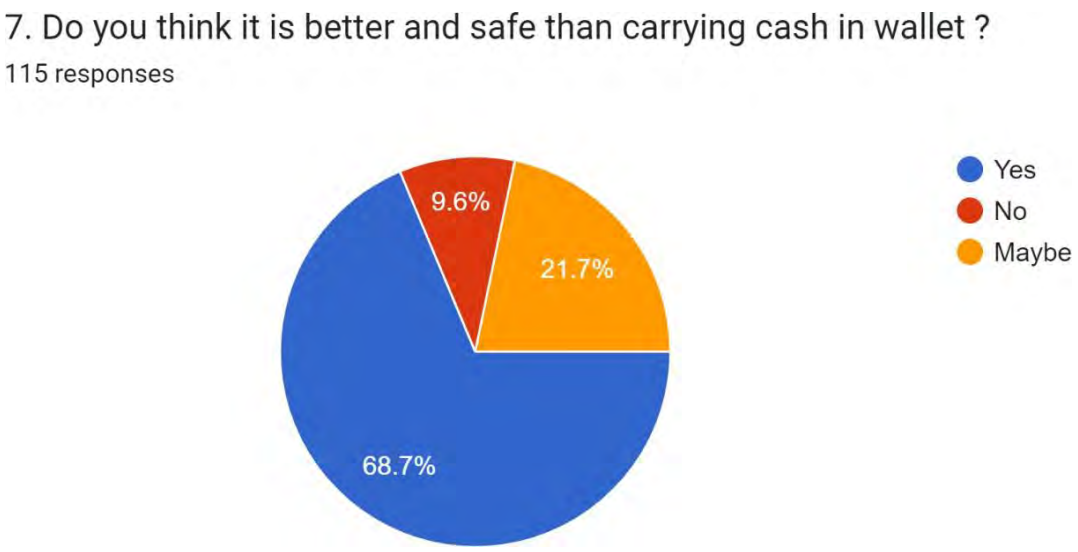



## INTERPRETATION:

A majority of 69.6% of respondents came to know about Google Pay app through family and friends, and 24.3% of respondents came to know about the app through advertisment.

**Respondents view about safety in using the app**

| Particulars | Number | Percentage |
|---|---|---|
| **Yes** | **79** | **68.7** |
| **No** | **11** | **9.6** |
| **May be** | **25** | **21.7** |

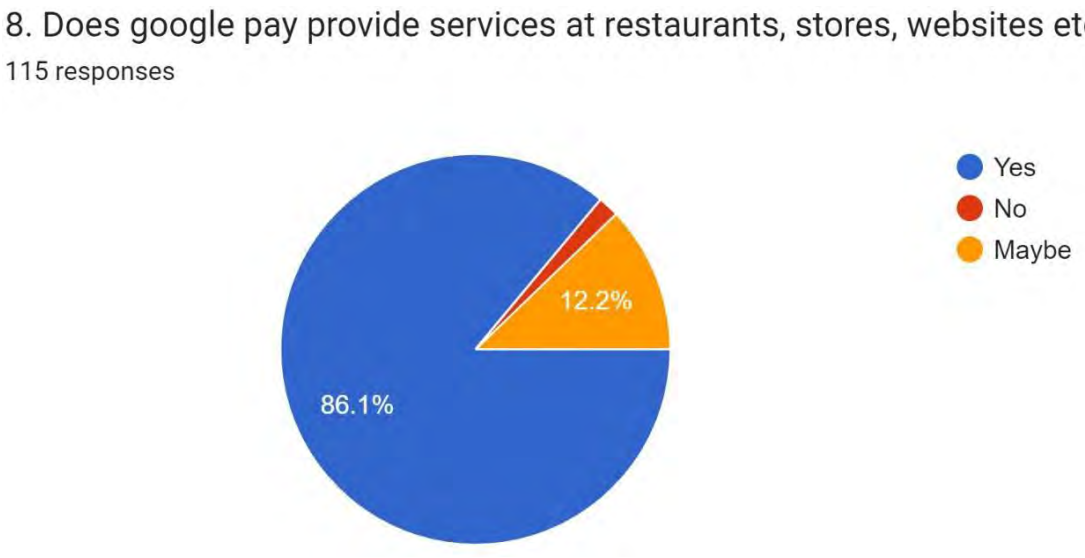



## INTERPRETATION:

68.7% of the respondents think that using Google Pay as an online payment app is much better and safe than carring cash in wallet.

**Services provided by the app**

| Particulars | Number | Percentage |
|---|---|---|
| **Yes** | **99** | **86.1** |
| **No** | **2** | **1.7** |
| **May be** | **14** | **12.2** |

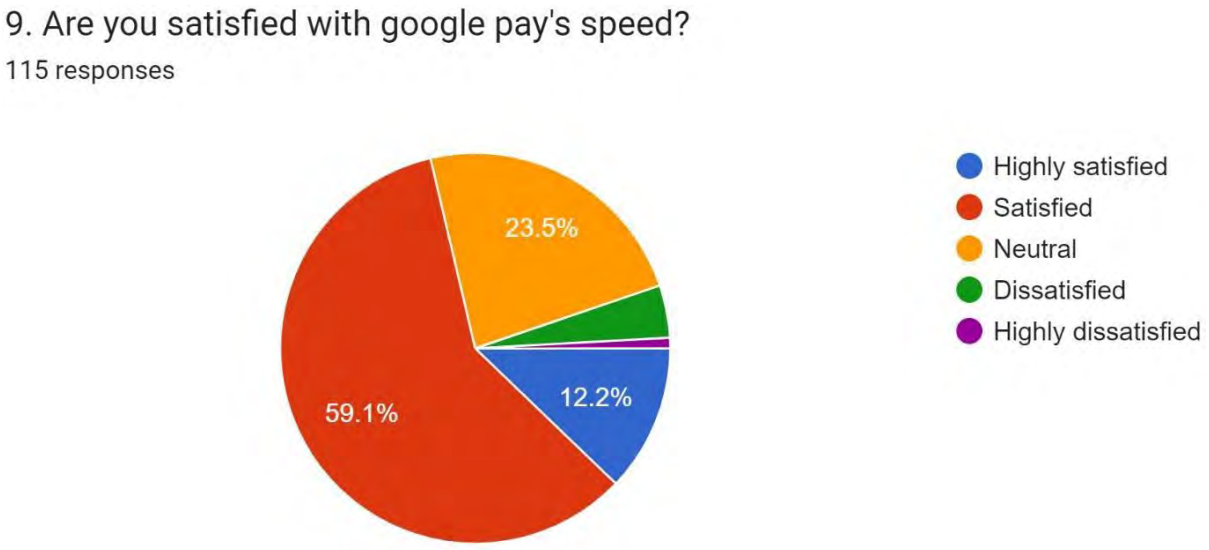



## INTERPRETATION:

A majority of 86.1% of the total respondents says and agrees that Google Pay provides services at restaurants, stores, and websites etc.

**Satisfaction of respondents towards Google Pay app speed**

| Particulars | Number | Percentage |
|---|---|---|
| **Highly satisfied** | **14** | **12.2** |
| **Satisfied** | **68** | **59.1** |
| **Neutral** | **27** | **23.5** |
| **Dissatisfied** | **5** | **4.3** |
| **Highly dissatisfied** | **1** | **0.9** |

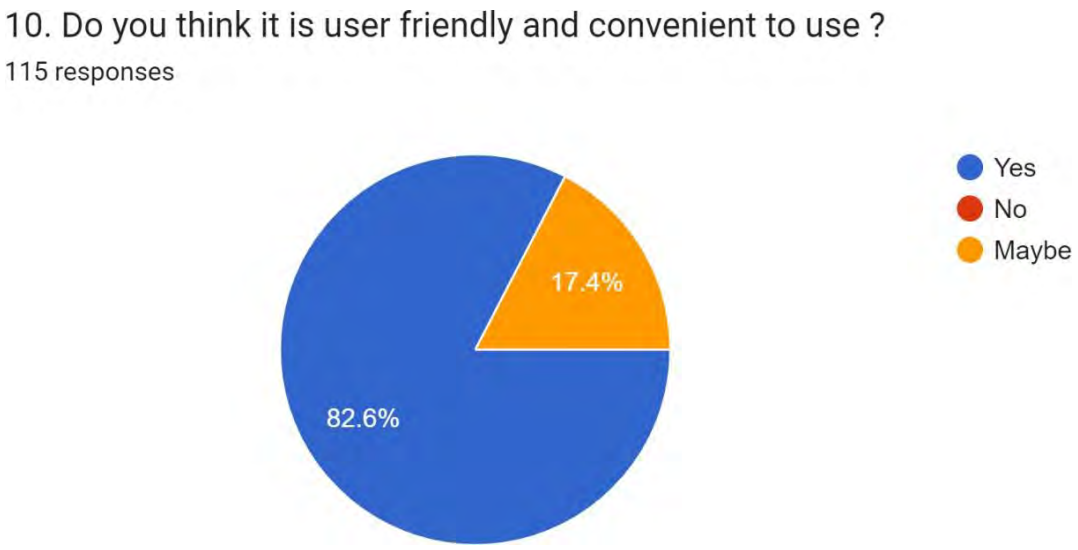



## INTERPRETATION:

59.1% of the respondents has stated that they are satisfied in terms of speed of the app whereas 23.5% of the respondents are neutral in their decision and 12.2% of the respondents are highly satisfied with its speed.

**Respondents view on app's user friendliness and convenience to use**

| Particulars | Number | Percentage |
|---|---|---|
| **Yes** | **95** | **82.6** |
| **No** | **0** | **0** |
| **May be** | **20** | **17.4** |




## INTERPRETATION:

82.6% of the respondents has stated that the app is user friendly and is very convenient to use. This means respondents are on the view that it is simple and easy to use.

**Cash loss of the respondents**

| Particulars | Number | Percentage |
|---|---|---|
| **Yes** | **27** | **23.5** |
| **No** | **77** | **67** |
| **May be** | **11** | **9.6** |

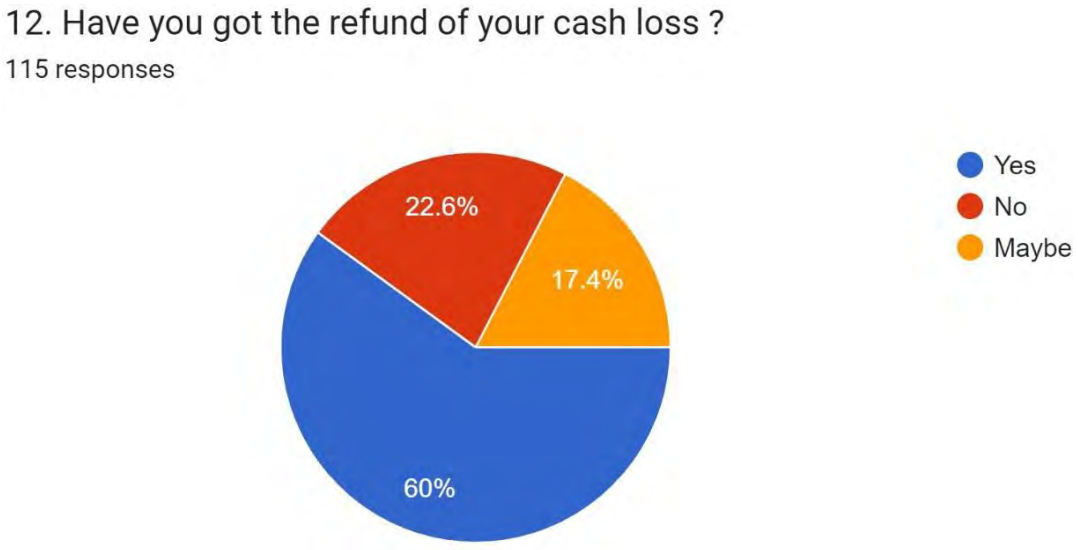



## INTERPRETATION:

Majority of 67% of the respondents have not faced any problem of cash loss. But 23.5% of the respondents lost cash through Google Pay.

**Respondent's refund of cash loss**

| Particulars | Number | Percentage |
|---|---|---|
| **Yes** | **69** | **60** |
| **No** | **26** | **22.6** |
| **May be** | **20** | **17.4** |

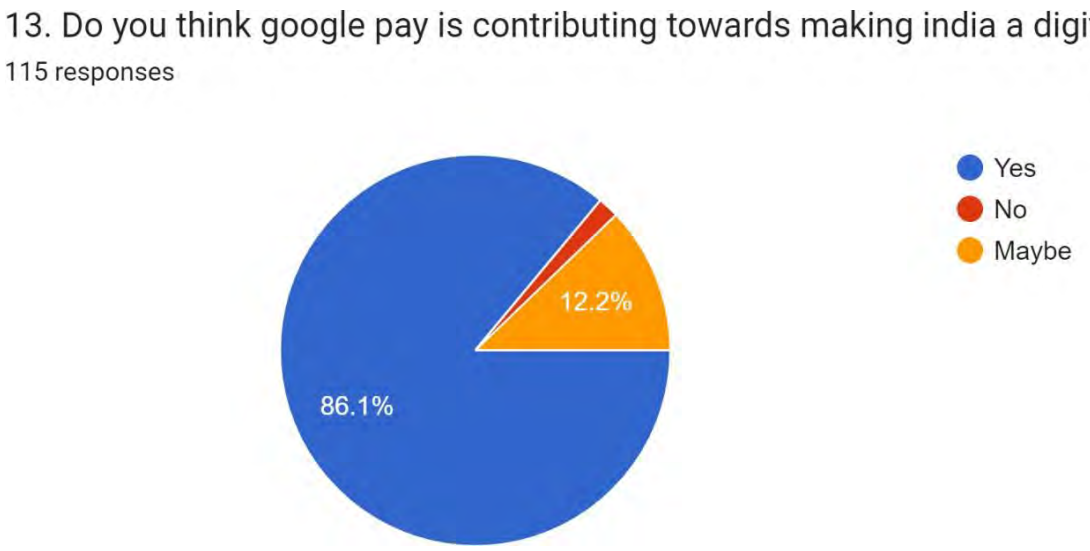



## INTERPRETATION:

60% of the respondents or users got the refund of their cash loss from the Google Pay app whereas 22.6% of the respondents didn't got any refund of their cash loss.

**Respondent's views on Contribution of the app towards making Digital India**

| Particulars | Number | Percentage |
|---|---|---|
| **Yes** | **99** | **86.1** |
| **No** | **2** | **1.7** |
| **May be** | **14** | **12.2** |

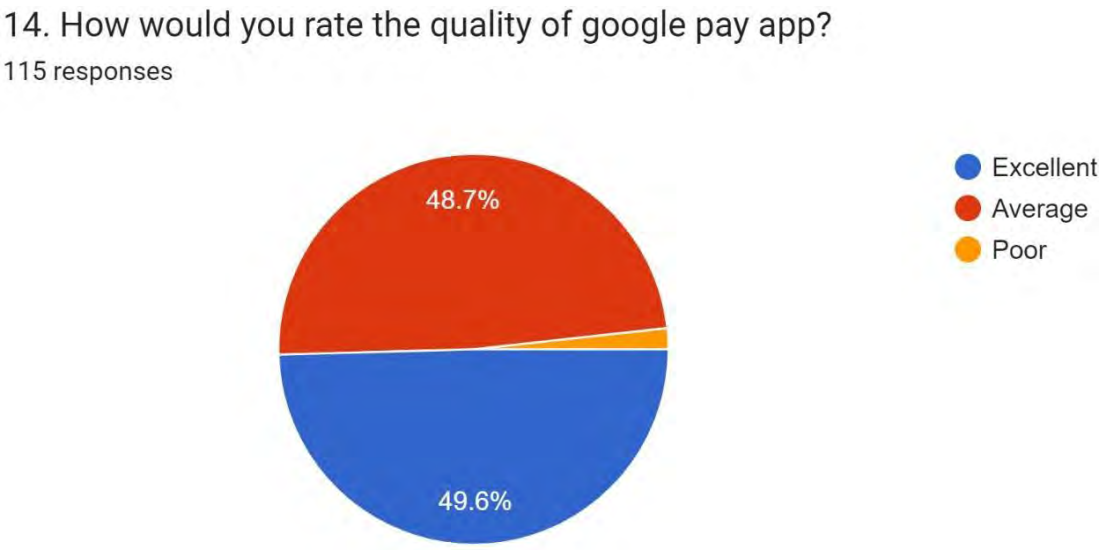



## INTERPRETATION:

A majority of respondents (86.1%) are in the view that Google Pay app is really contributing towards making India a Digital India as this app is one of the most commonly used online payment app.

**Rating the quality of Google Pay app**

| Particulars | Number | Percentage |
|---|---|---|
| **Excellent** | **56** | **49.6** |
| **Average** | **57** | **48.7** |
| **Poor** | **2** | **1.7** |

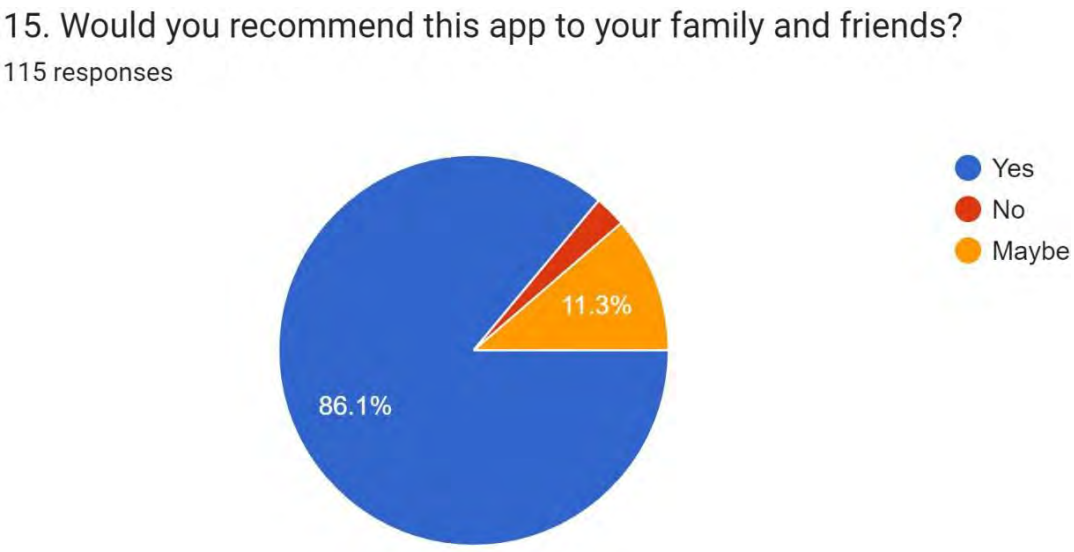



## INTERPRETATION:

A majority of 49.6% of respondents find the quality of Google Pay as excellent and 48.7% of the respondents rated it as average.

**Recommendation to family and friends by respondents**

| Particulars | Number | Percentage |
|---|---|---|
| **Yes** | **99** | **86.1** |
| **No** | **3** | **2.6** |
| **May be** | **13** | **11.3** |

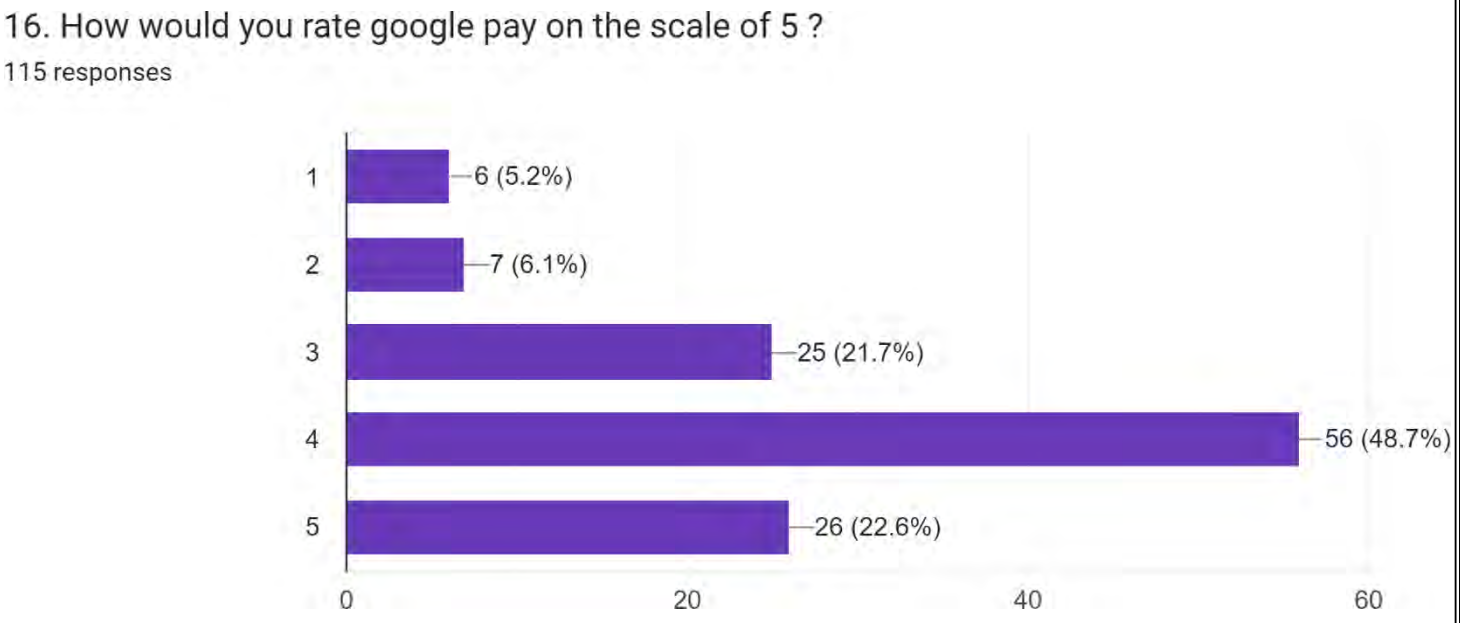



## INTERPRETATION:

Here, 86.1% of the respondents stated that they would recommend Google Pay to their family and friends.

**Rating of Google pay**

| Particulars | Number | Percentage |
|---|---|---|
| **0-1** | **6** | **5.2** |
| **1-2** | **7** | **6.1** |
| **2-3** | **25** | **21.7** |
| **3-4** | **56** | **48.7** |
| **4-5** | **26** | **22.6** |




## INTERPRETATION:

On the scale of 5 a majority of 48.7% of the respondents have given a '4' and 22.6% have given '5' for Google Pay. This shows that Google Pay has good rating among the respondents.

# CHAPTER-4

# FINDINGS,

# CONCLUSIONS

# &

# SUGGESTIONS

## 4.1 FINDINGS:

- A majority of 80.9% of respondents were students who use Google Pay. Respondents in the age category of 20-35, account of 81.7% of the response, which indicates that the younger generation has more active participation in this project. This implies that online payments are of much use among the younger generation as compared to the rest.
- A majority of 62.6% of respondents are women who use Google Pay.
- A majority of 82.6% of the respondents think using online payment can offer a wider range of banking services and payment options.
- Respondents not using online payment in this project are of the opinion that online payments are not safe due to reasons such that of fraudulent activities, insecurity, lack of trust, technical issues, and others.
- 67.8% of respondents didn't find any difficulty while using Google Pay for the first time and rest 32.2% did find it difficult to use.
- 35.7% of people have been using the payment app above two years and 33.9% below one year and 30.4% between one to two years.
- Most of the respondents preferred to use Google Pay daily for their transactions which shows theincreasing popularity of this application.
- 69.6% of the users came to know about Google Pay through family and friends.
- 68.7% of people think it is better and safe than carrying cash in wallet.
- 86.1% of respondents says that Google Pay provide services at restaurants, stores, and websites etc.
- 59.1% are satisfied with Google Pay's speed, 23.5% are neutral and 12.2% are highly satisfied.
- Majority of the respondents think it is user friendly and convenient to use.
- Majority of the respondents (67%) have not faced any cash loss. But 33% of respondents lost cash through Google Pay.
- 60% of the users got their refund of cash loss,22.6% didn't get any refund and 17.4% are in dilemma of maybe.
- Majority of respondents (86.1%) think Google Pay is contributing towards making India a Digital India.
- 49.6% of respondents find the quality of Google Pay as excellent and 48.7% of respondents find the quality average.
- Majority of the respondents will recommend Google Pay to their family and friends.
- On the scale of 5, majority of the respondents (48.7%) has given a '4' and 5.2% of respondents has given a '1' for Google Pay.

## 4.2 CONCLUSIONS :

Consumer's knowledge about new mobile technology innovation is increasing rapidly, and their perception is most important in the usage of Google Pay application in India. Consumer's need has increased withadvanced technology. With the increased aggression of internet connectivity Google Pay has led to a rise in the number of Google Pay users. Google Pay is getting more and more trending among the buyers especially in the youngsters. The study has concluded that users have a lot of trust on Google Pay and this trust has greatimpact on the adoption of this app. It has significantly positive impact on actual usage of Google Pay. The study highlights that 20-35 age group of people are the most using and satisfied users of Google Pay. The Google Pay app is convenient and simple to use, as a result it has gained a remarkable position in the industry. At the end, it can be concluded that there is going to be an incredible growth in the adoption of Google Pay within the forthcoming years.

## 4.3 SUGGESTIONS:

Google Pay can revolutionize online payments and cashless transaction to next level, but for that :

- The customers need to be convinced about the safety of Google Pay and their advantages.
- Customers to be induced to use Google Pay for all kinds of payments by making attractive offers such as cashback offers etc.
- All the doubts and ignorance's with regard to using this app should be addressed effectively to pump up theuse of Google Pay.

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3. Anjali Ahuja & Richa Joshi (2018). "Customer Perception towards Mobile Wallets, IJRDO – Journal of Business Management – ISSN: 2455-6661.
4. Basavaraj Nagesh Kadamudimaths (2016). "Digital Wallet: The next way growth" – International Journal of Commerce and Management Research.
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3. https://en.wikipedia.org/wiki/MobileBanking
4. www.googlepay.com
5. www.walletindustry.com
6. www.studymore.com

# QUESTIONNAIRE

## CUSTOMER SATISFACTION ON GOOGLE PAY

- What is your name?

---

- How old are you?

  a) Below 20

  b) 20 - 35

  c) 35 - 50

  d) Above 50

- Gender

  a) Male

  b) Female

  c) Other

- Occupation

  a) Student

  b) Government Employee

  c) Private Employee

  d) Others

- Monthly Income

  a) Still Studying

b) below 20000

c) 20000 - 40000

d) Above 40000

1. Do you think using online payment can offer you a wider range of banking services and payment options?

   a) Yes

   b) No

   c) Maybe

2. Whether yes/no what can be the reason you think for not using online payment?

   a) Lack of technical knowledge

   b) Unsecure

   c) Chance of fraud

   d) Other

3. Did you find any difficulty while using Google Pay for the first time?

   a) Yes

   b) No

   c) May be

4. How long have you been using Google Pay app?

   a) Below 1 year

   b) 1 - 2 years

c) Above 2 years

5. How often do you use this app?

a) Daily

b) Weekly

c) Monthly

d) Occasionally

6. How did you come to know about Google Pay app?

a) Through family and friends

b) Through advertisement

c) Others

7. Do you think it is better and safe than carrying cash in wallet?

a) Yes

b) No

c) May be

8. Does Google Pay provide services at restaurants, stores, websites, etc.?

a) Yes

b) No

9. Are you satisfied with Google Pay's speed?

a) Highly satisfied

b) Satisfied

c) Neutral

d) Dissatisfied

e) Highly dissatisfied

10. Do you think it is user friendly and convenient to use?

a) Yes

b) No

c) Maybe

11. Have you ever had a cash loss from your Google Pay account?

a) Yes

b) No

c) May be

12. Have you got the refund of your cash loss?

a) Yes

b) No

c) May be

13. Do you think Google Pay is contributing towards making India a Digital India?

a) Yes

b) No

c) May be

14. How would you rate the quality of Google Pay app?

a) Excellent

b) Average

c) Poor

15. Would you recommend this app to your family and friends?

a) Yes

b) No

c) May be

16. How would you rate Google Pay on the scale of 5?

a) 1

b) 2

c) 3

d) 4

e) 5

17. Any suggestions.

---

# EUCLIDEAN DOMAIN AND POLYNOMIAL RINGS

## A PROJECT REPORT

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY,
REGIONAL CENTRE DHARAMSHALA

FOR THE DEGREE OF

## MASTERS OF SCIENCE
## IN
## MATHEMATICS

(FACULTY OF PHYSICAL SCIENCES)
2024


Supervised by
Dr. Tilak Raj Sharma

Submitted by
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Ankita Chandel
Saloni Choudhary
Nancy Dhiman

DEPARTMENT OF MATHEMATICS
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27/7/2024

# SOME BASIC RESULTS IN RING THEORY

## A PROJECT REPORT

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY,
REGIONAL CENTRE DHARAMSHALA

FOR THE DEGREE OF

## MASTERS OF SCIENCE
## IN
## MATHEMATICS

(FACULTY OF PHYSICAL SCIENCES)
2024


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(INDIA)-176218


27/7/24

# DECLARATION

We hereby declare that the project report entitled "**Field Theory**" submitted under the supervision of Dr. Tilak Raj Sharma, Department of Mathematics, Himachal Pradesh University Regional Centre, Dharamshala has not been previously submitted in part or full for the award of any degree or diploma to any University or Institution.

Date: 11/06/24

(Chirag, Gunjan, Parul Bansal, Amit Sharma, Tanvi Sharma, Paras Chauhan)

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# DECLARATION

We hereby declare that the project report entitled "**Normal, Separable and Galois Theory**" submitted under the supervision of Dr. Tilak Raj Sharma, Department of Mathematics, Himachal Pradesh University Regional Centre, Dharamshala has not been previously submitted in part or full for the award of any degree or diploma to any University or Institution.

Date: 11/06/24 (Rupanshi Sharma, Kanupriya, Vanshika, Isha Chandel, Badal Singh, Abhishek)

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# NORMAL, SEPARABLE EXTENSION AND GALOIS THEORY

## A PROJECT REPORT

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY,
REGIONAL CENTRE DHARAMSHALA

FOR THE DEGREE OF

## MASTERS OF SCIENCE
## IN
## MATHEMATICS

(FACULTY OF PHYSICAL SCIENCES)
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27/7/2024

# FIELD THEORY

## A PROJECT REPORT

SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY,
REGIONAL CENTRE DHARAMSHALA

FOR THE DEGREE OF

## MASTERS OF SCIENCE
## IN
## MATHEMATICS

(FACULTY OF PHYSICAL SCIENCES)
2024


Supervised by
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Submitted by
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REGIONAL CENTRE MOHLI, DHARAMSHALA(H.P.)
(INDIA)-176218


27/7/2024

# DECLARATION

We hereby declare that the project report entitled "**Some Basic Results in Ring Theory**" submitted under the supervision of Dr. Tilak Raj Sharma, Department of Mathematics, Himachal Pradesh University Regional Centre, Dharamshala has not been previously submitted in part or full for the award of any degree or diploma to any University or Institution.

Date: 11/06/24 (Akshit Prashar, Jyoti Verma, Sugandha, Tamanna)

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# DECLARATION

We hereby declare that the project report entitled "**Euclidean Domain and Polynomial Rings**" submitted under the supervision of Dr. Tilak Raj Sharma, Department of Mathematics, Himachal Pradesh University Regional Centre, Dharamshala has not been previously submitted in part or full for the award of any degree or diploma to any University or Institution.

Date: 11/06/24

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Himachal Pradesh University Regional Centre, Khaniyara Dharamshala
Attendence Sheet for Project Report Examination of MBA 4th Semester
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*sPROJECT REPORT*

*on*

# "EMPLOYEES AWARENESS AND PERCEPTION ABOUT GREEN HUMAN RESOURCE MANAGEMENT (GHRM) PRACTICES: A STUDY OF PHARMACEUTICAL COMPANIES IN BADDI (SOLAN DISTRICT) OF HIMACHAL PRADESH"

***by***

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**SUBMITTED IN PARTIAL FULFILLMENT OF**

**AWARD OF DEGREE OF**

MASTER OF BUSINESS ADMINISTRATION (MBA)

(SESSION 2022-2024)

**SUPERVISED BY:** **Dr. JATINDER KAUR**

# DECLARATION

I, Aditi Sharma, student of MBA 4th semester at Himachal Pradesh University Regional Centre Dharamshala, hereby declare that I have completed a research project entitled "EMPLOYEES AWARENESS AND PERCEPTION ABOUT GREEN HUMAN RESOURCE MANAGEMENT (GHRM) PRACTICES: A STUDY OF PHARMACEUTICAL COMPANIES IN BADDI (SOLAN DISTRICT) OF HIMACHAL PRADESH" under the guidance of "Dr. Jatinder Kaur" professor of MBA Department, in partial fulfilment of the requirement for the degree of the Masters of Business Administration during the year 2022-2024. Further I hereby confirm that the work presented herein is genuine and original and has not been published elsewhere. I have followed the guidelines provided by the institute in writing the report. I have conformed to the norms and guidelines given in the ethical code of conduct of the institute

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# GUIDE CERTIFICATE

This is to certify that the topic entitled "EMPLOYEE AWARENESS AND PERCEPTION ABOUT GREEN HUMAN MANAGEMENT (GHRM) PRACTICES: A STUDY OF PHARMACEUTICAL COMPANIES IN SOLAN DISTRICT OF HIMACHAL PRADESH" is a record of research work carried out by Aditi Sharma, during the period of her study under my guidance and supervision. The Research Project Report has reached the standard of fulfilling the requirements of the regulation relating to the Masters of Business Admiration (MBA) degree at Himachal Pradesh University Regional Centre, Dharamshala.

**Dr. Jatinder Kaur**
(MBA Department)

# ACKNOWLEDGEMENT

Though only my name appears on the cover page of the project report, a great many people have contributed to its successful completion. I owe my gratitude to all those who made this report possible and because of whom my experience has been one that I will cherish forever. First and foremost, I bow my head in front of the Almighty God for always being there with his blessings

I am thankful to Himachal Pradesh University Regional Centre, Dharamshala (HPURC) and the staff members of the Masters of Business Administration (MBA) department for proving me with the opportunity to work on this project.

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Finally, I would like to thank all the concerned people, my university professors, family members for their precious time, valuable suggestions and their countless help during this whole period. I perceive this opportunity as a big milestone in my career development. I will strive to use skills and knowledge in the best possible way which I gained while preparing this project report.

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# Abstract

The objective of this study was to assess the awareness and perception of employees and also the factors affecting Green Human Resource Management (GHRM) practices in pharmaceutical companies. The sample size was taken 125 Employees. The findings revealed that a majority of respondents were male, held senior-level positions, and had 0-5 years of experience. The survey showed a high level of awareness and adoption of GHRM practices within organizations, with employees recognizing the positive impact of these practices on employee satisfaction, productivity, and workplace culture. However, some respondents expressed a lack of knowledge on how to implement GHRM in their daily work, indicating a need for training and educational initiatives. The study also highlighted the importance of frequent and regular training sessions to enhance employees' understanding of GHRM practices. Furthermore, the implementation of GHRM practices, such as video conferencing, telecommunication, and flexible-timing, varied among organizations. The absence of a reward system and barriers like cost, complexity, and lack of understanding were identified, emphasizing the need for addressing these challenges. Overall, this study provides valuable insights into the current status of GHRM practices and suggests areas for improvement to promote sustainability and employee engagement in pharmaceutical companies.

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14/6/2024

**Dr. Jatinder Kaur**
(MBA Department)

# Chapter-1

# INTRODUCTION

In today's fast-changing world, organizations are increasingly recognizing the significance of adopting sustainable practices in their operations. As people become more conscious of environmental issues, new solutions for decreasing carbon footprints, saving resources, and encouraging ecological balance have emerged. Human Resource Management (HRM) is one key sector where sustainability principles are gaining popularity. Green Human Resource Practices (GHRP) is a collection of programs and policies that integrate sustainability concerns into HRM operations, resulting in more environmentally responsible and socially conscious organizations. Human Resource Management, as a discipline, is primarily concerned with effectively managing the human capital within an organization. Traditionally, HRM focused on activities such as recruitment, selection, training, compensation, and performance management. However, with the rise of sustainability as a global priority, HRM has evolved to embrace a broader perspective that includes environmental and social dimensions.

Green Human Resource Practices encompass several key elements that promote sustainability throughout the HRM process. For instance, in recruitment and selection, organizations are increasingly considering environmental and social values when identifying potential candidates. This includes evaluating their attitudes toward sustainability, their awareness of environmental issues, and their commitment to responsible business practices.

## 1.1 HUMAN RESOURCE MANAGEMENT:

Human Resource Management (HRM) is a critical function within organizations that focuses on managing the people who make up the workforce. It encompasses a wide range of activities and strategies aimed at effectively utilizing and developing human capital to achieve organizational goals and objectives. HRM plays a crucial role in attracting, selecting, developing, motivating, and retaining employees, ultimately contributing to the overall success and competitiveness of the organization. The primary objective of HRM is to align individuals' capabilities and potential with the organization's strategic goals. It involves designing and implementing policies, practices, and programs that create a productive work environment, promote employee engagement, and enhance organizational performance and also HRM encompasses various key areas, including recruitment and selection, training and development, performance management, compensation and benefits, employee relations, and

legal compliance. Each of these areas is interconnected and requires a strategic and integrated approach to maximize the potential of the workforce. Recruitment and selection involve identifying the talent needs of the organization, attracting qualified candidates, and selecting individuals who possess the required skills, knowledge, and competencies. HRM utilizes various methods such as job analysis, job advertisements, interviews, and assessments to identify the most suitable candidates for specific roles.

Training and development programs are essential for enhancing the skills and capabilities of employees. HRM focuses on providing learning opportunities that improve job performance, facilitate career growth, and support the overall development of employees. This may include training workshops, mentoring programs, e-learning platforms, and on-the-job training initiatives. Performance management involves setting clear performance expectations, providing regular feedback, and evaluating individual and team performance. HRM establishes performance appraisal systems, goal-setting processes, and reward mechanisms to motivate employees and align their efforts with organizational objectives. Compensation and benefits play a vital role in attracting and retaining talent. HRM designs and administers competitive and fair compensation packages, including salaries, bonuses, incentives, and benefits such as health insurance, retirement plans, and leave policies. Effective compensation strategies not only reward employees for their contributions but also help create a positive and engaged workforce Guest (1987).

Employee relations focus on fostering positive relationships between employees and the organization. HRM handles employee grievances, manages conflicts, and ensures open and effective communication channels between management and employees. HRM strives to enhance job satisfaction, employee morale, and overall productivity by promoting a healthy work environment. Furthermore, HRM is responsible for ensuring compliance with legal regulations and employment standards. It ensures adherence to labor laws, workplace safety regulations, and fair employment practices, protecting the rights and well-being of employees while mitigating legal risks for the organization Dessler (2017).

## 1.2 GREEN HUMAN RESOURCE MANAGEMENT:

Green Human Resource Management (GHRM) is a strategic approach that integrates sustainability principles and environmental considerations into various Human Resource Management (HRM) functions. It focuses on aligning HR practices with sustainability goals, promoting eco-friendly behaviors, and creating a culture of environmental responsibility within the organization. GHRM involves several key elements:

i. **Recruitment and Selection:** GHRM emphasizes the importance of hiring individuals who are environmentally conscious and share the organization's commitment to sustainability. This may involve evaluating candidates' knowledge of environmental issues, their previous experience with sustainable practices, and their attitudes towards environmental stewardship.

ii. **Training and Development:** GHRM ensures that employees receive training on sustainable practices and environmental awareness. This may include workshops on energy efficiency, waste reduction, sustainable sourcing, and ethical decision-making. By equipping employees with the knowledge and skills to implement sustainable practices, organizations can drive positive environmental change.

iii. **Compensation and Incentives:** GHRM recognizes and rewards employees who actively engage in sustainable behaviors. This can involve providing incentives for adopting eco-friendly commuting options, reducing energy consumption, or contributing innovative sustainability ideas. By tying rewards to sustainability efforts, GHRM encourages employees to incorporate green practices into their daily work routines.

iv. **Performance Management:** GHRM incorporates sustainability metrics into performance evaluation systems. These metrics can include indicators such as energy usage, waste reduction, carbon emissions, and adherence to environmental regulations. By incorporating sustainability goals into performance management, organizations foster a culture of accountability and encourage employees to contribute to environmental sustainability.

v. **Employee Engagement and Communication:** GHRM emphasizes the importance of employee engagement and participation in sustainability initiatives. It encourages open communication channels, allowing employees to share their ideas, concerns, and suggestions regarding environmental sustainability. By involving employees in

decision-making processes and providing platforms for their input, GHRM promotes a sense of ownership and commitment to green practices.

vi. **Supply Chain Management:** GHRM extends its influence beyond internal HR practices by integrating sustainability considerations into supply chain management. This includes working with suppliers and partners who adhere to sustainable practices, promoting sustainable sourcing and procurement, and ensuring environmental standards are met throughout the supply chain.

vii. **Corporate Social Responsibility (CSR):** GHRM contributes to an organization's CSR initiatives by integrating environmental sustainability into the broader CSR strategy. HR professionals collaborate with other departments to align sustainability goals with CSR initiatives, ensuring that social and environmental responsibilities are addressed cohesively Paulet (2021).

## Need of Green Human Resource Practices:

There has been a rising need for strategic Green HRM – the amalgamation of environmental management into HRM. HR professionals specified that one of the top practices for their organizations is encouraging employees to be more environmentally friendly in the workplace. This means that organizations are encouraging their employees to perform activities such as powering down computers after a few minutes of inactivity, making double-sided photocopies, ensuring blinds are lowered in the summer to conserve energy, using energy-efficient bulbs for desk lamps, donating/discounting used office furniture etc., are few the top environmentally responsible practices. These days companies are implementing EMS (Environmental Management System) a strategic device to gain competitive advantage. The system offers better control of firm's environmental impacts. It includes planning, policy, implementation, commitment, measurement and evaluation, review and improvement of HR systems that fit with organization's culture and long-term goals

In summary, Green Human Resource Management is a strategic approach that incorporates sustainability principles into HRM practices. By integrating environmental considerations into recruitment, training, compensation, performance management, and employee engagement, GHRM enables organizations to become more environmentally responsible, contribute to sustainable development, and foster a culture of green consciousness within the workplace Renwick (2008).

## 1.3 PHARMACEUTICAL COMPANIES IN HIMACHAL PRADESH

The pharmaceutical industry is a critical sector that focuses on the research, development, production, and distribution of medicines and healthcare products. Himachal Pradesh, a state in northern India, has become a prominent hub for the pharmaceutical industry, offering numerous advantages and fostering its growth. Himachal Pradesh has developed into a thriving pharmaceutical center due to its favorable business environment and strategic location. The state's government has implemented policies and initiatives to attract investments and facilitate the ease of doing business in the pharmaceutical sector. Financial incentives, tax benefits, subsidies, and streamlined regulatory processes are provided to support pharmaceutical companies operating in the region.

The presence of specialized pharmaceutical parks and clusters in Himachal Pradesh contributes to its growth as a pharmaceutical hub. These industrial complexes provide state-of-the-art infrastructure, common utilities, and specialized services to meet the needs of pharmaceutical companies. Such infrastructure facilitates cost-effective production, quality assurance, and compliance with regulatory standards. The availability of a skilled workforce is another advantage for the pharmaceutical industry in Himachal Pradesh. The state has numerous educational institutions offering pharmaceutical science courses, ensuring a pool of talented professionals and skilled workers for the industry. This educated workforce contributes to the high standards of production and research in the pharmaceutical sector. The pharmaceutical industry in Himachal Pradesh has a significant impact on the state's economy. It generates employment opportunities, attracts investments, and contributes to export earnings. The industry plays a crucial role in providing essential healthcare products to the population and supports the overall healthcare infrastructure of the region.

In conclusion, Himachal Pradesh has emerged as a prominent destination for the pharmaceutical industry in India. The state's favorable business environment, robust infrastructure, skilled workforce, and government support have contributed to its growth as a pharmaceutical hub. The industry in Himachal Pradesh plays a vital role in the economy and healthcare sector, benefiting both the state and the population Akhtar (2013).

# Chapter-2

# REVIEW OF LITERATURE

A literature review is a critical component of thesis writing, serving multiple purposes. It helps researchers understand existing knowledge, identify gaps, and define research questions. By evaluating and synthesizing previous studies, it highlights key themes, theories, and methodologies. The literature review justifies the research's significance and originality, situating it within the broader context. Moreover, it enhances the research's credibility by showcasing the researcher's familiarity with relevant literature. Overall, a well-executed literature review lays the foundation for a comprehensive and impactful thesis, bridging the gap between existing scholarship and new insights in the field.

Menon (2016) conducted a study to know about green human resource management where the main objective of the study was to study the amount of awareness about GHRM in industries. Data was gathered using stratified random sampling and only 6 were chosen due to large size of organizations (500+ employees) found here. Sample size was taken 100 persons in order to have better understanding of the topic. The author concluded that although it is a new and emerging concept but the human resource managers need to implement these concepts and give rewards to the employees who adapt them well in order to have organization effectiveness and overall efficiency of the organization.

Sharanya and Radhika (2016) did a study on Green Human Resource Practices in IT Sector where the main motive of the study is to find out the importance of green HR management and green HR practices in IT industry. The sample size was 60 respondents and the respondents were chosen from Trivandrum (Techno Park). The major findings of the study are lack of online training programs for employees, management is not providing E-performance management system for measuring employee’s environmental performance and also, they fail to recruit green employer or employees. The suggestion of the study is management should provide online training programs for employees regarding environmental issues, recruit employees who are aware about green HRM it will increases employee engagement, participation and also reduces employee turnover.

Ahmad (2018) worked on green human resource management practices and work life balance. The objective of the study was to examine the relationship of green work life balance and green human resource management practices towards employee satisfaction. He did take 350 respondents from Kemaman Supply Base (Terengganu). The findings of this study revealed that all green HR practices and green work to life interface are significant towards employee satisfaction except another domain of green work life balance which is green life to work interface.

Neeraja and Dhanajaya (2018) conducted a study over green human resource management and organisation effectiveness. Sample Size of 50 was picked by convivence and random sampling techniques in selected companies of Bangalore and employee perception towards green human resource practices. Findings of the study revealed that it was helping in reducing cost of organisation an so it was their driver in following green practices and it is also increasing morality among employee, and reduce organisational costs as well as green HRM practices improve relationships with stakeholders, customers, suppliers, employees, and the media. Furthermore, study revealed some barriers such as lack of employee support, program cost, and management/government support.

Mamun (2019) did work to examine the extent of awareness of Green Human Resource Management among different level of managers. Data was collected from 221 managers in selected firms from Bangladesh. The author found out that Green HRM knowledge depends on various factors. He also gave suggestion that the government may create policies to promote the above practices.

Mtembu (2019) investigated about green human resource management practices influencing implementation within organisations. Objective and key question of this study was to determine whether there is a relationship between knowledge of green human resource management (HRM) practices and its implementation within the organizations. He took 60 respondents among divisions in higher education institutions in KwaZulu-Natal, South Africa. The findings revealed a moderate application of green HRM principles in HRM activities in the institutions. There was no policy framework in the form of green HRM policies to drive green activities within the HR divisions and institutionally.

Pham (2019) conducted a study in Vietnam in hotel industry where his objectives were to identify green human resource management practices applied in hotels and to study the interactive effects of GHRM practices. He uses both qualitative and quantitative methods. He focused on 3 Five-star Hotels and got a database from 220 employees in Vietnam. He concluded after his research there is a positive relationship between employee performance and GHRM practices. It has positive experiences for employees and the organization who follow it by increasing the organization effectiveness and performance and employee wellness.

Rosocoe et.al (2019) conducted a study on green human resource management where objective was to examine the relationship between GHRM practices, the enablers of green

organizational culture, and a firm's environmental performance. Sample size was 204 employees at Chinese manufacturing firms. The findings were pro environmental HRM practices including hiring, training, appraisal, and incentivization support the development of the enablers of green organizational culture.

Aboramadan (2020) did the effect of green HRM on employee green behaviors in higher education, where his main objective was to study the role of GHRM in educational institutions. For this study he chooses the Palestine area for his research. Data was collected from collected from staff working in Palestinian higher education institutions and a 5-point Likert scale was used to collect the data. The study concluded that the concept of GHRM has a positive impact and role in changing the behavior of the employee positively and increasing the overall efficiency of the institute.

Jam (2020) did investigate on impact of green human resources management practices on organizational sustainability and employee retention. The major objective of the study finds the impact of green human resource management policies on educational institutions organizational sustainability in South Punjab, Pakistan. The data was collected from across 150 educational institutions randomly and the conclusion they arrived at was that the educational institutions of south Punjab are engaged and implement the green practices and find these practices fruitful for their sustainability and employee retention. The relationship found between green HRM and sustainability is positive, but the intensity is weak.

Nagarajan and Sangeetha (2020) did conduct a study on employee awareness on Green Human Resource Practices where the main objective of the study was to reveal the relations between awareness on Green Human Resource Management in case of chemical industries. The sample size was taken as 130, sampling method used was simple random sampling and the study area was Sipcot in Cuddalore. They used Pearsons's correlation and multiple regression. They found out that awareness of Green Human Resource Management was beneficial as it helped employees to increase their performance in the workplace.

Suharti and Sugiarto (2020) also worked in Indonesia on GHRM where the main objective was to check the reputation of the environment friendly cement factory of Indonesia. The data was obtained from 360 workers. The author concluded that Green HRM was inseparable from the concept of the big Green Business that the company embraced. The concept of GHRM is infused within company's goal, mission and vision and that has increased company's image and overall effectiveness too.

Zahid et.al (2020) worked over green HRM practices influence employees' environmental performance. Study tests an integrative model incorporating the indirect effects of GHRM practices on employee organizational citizenship behaviour toward environment (OCBE), through green employee empowerment. The sample size was taken as 365 employees from Pakistan and the results also indicated that individual green values moderated the positive relationship between green employee empowerment and organizational citizenship behaviour toward environment (OCBE). This study suggests that green employee empowerment and individual green values are important factors that influence the relationship between green human resource management and employee's organizational citizenship behaviour toward environment (OCBE).

Alam et al. (2021) researched about effect of green human resource management (GHRM) overall on organization's environmental performance: The research focused on does the green human resource management have any effect on the organizations' environmental performance (OEP). The research was done in Bangladesh and population is population of this research is the manufacturing industries registered in Bangladesh and operate full-time with a sample size of 340.The researchers concluded after the research that the research also removed contradictions about the effects of green human resource management practices on organizations' environmental performance in literature and strengthened the link between green human resource management and environmental performance practices.

Baliyan and Fatima (2021) worked on impact of green human resource management practice on organizations-performance affecting increased sales and profits. The primary data was collected by using purposive sampling technique and the sample size was carefully chosen to 100 employees in IT Sector in Bangalore as target sample for better data collection. The author concluded that GHRM not only has a massive impact on large organization but also it has the same huge impact over the small organization.

Jamal et al (2021) observed Perceived Green Human Resource Management Practices and Corporate Sustainability where the purpose of the paper was to reveal the industries' perspective of the impact of GHRM practices. Data were collected from 200 human resource professionals from all over India where they found out that positive impact of three green human resource practices, i.e., green recruitment and selection, green pay and rewards, and green employee involvement on corporate sustainability. However, green training has no significant association with corporate sustainability.

Chreif and Farmanesh (2022) examined over applying Green Human Resource Practices toward Sustainable Workplace where they focused over the role of ethical leadership and GHRM in moving organizations toward sustainability. The sample of 110 respondents from 2 NGO's was taken in Libya. They found out that significant impact of ethical leadership on employees' green behaviours. In addition, GHRM and harmonious environmental passion mediated the relationship between ethical leadership and employees' green behaviours.

Ercantan and Eyupoglu (2022) investigated about the perception of employees towards organisation practicing Green Human Resource Management. The main objective of the study was how these perceptions could influence their future green behaviour. The sample was taken from largest university in North Cyprus and sample size was 342 respondents. The data revealed that Green Human Resource Management had a direct impact on prospective employees perceived green task-related and voluntary behaviours and an indirect influence via the mediation of psychological green climate perception.

Khan et.al (2022) did worked on green human resource practices where its Impact on Employee Performance in Pakistan's Small Medium Enterprise sector. Sample size was taken as 308 small-medium enterprises (SME) employees. The results showed a positive relationship between GHRM and employee performance. The finding of this paper has several implications for government officials and policy makers of SME sector to provide the framework to support employee green behaviour.

Osoloase et.al (2022) examined over the awareness on green human resource development among Hotel Industries. The sample size was taken as 2 and both employees from the same hotel in Nigeria. He did find out that although employees had awareness on what green practices means, but lacked knowledge on green training and development. There is the need to invest on green training and development.

Ramachandran and Kumar (2022) did investigate over status of green human resource practices and to evaluate and recognize the green human resource management practices executed in companies working in India.267 employees were taken as sample size and area was chosen as State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT), Cuddalore. The result of the study shows that there is a significant difference in employee's opinion towards green human resource practices on employee's behavioral outcome. Developing and implementing green human resources practices and policies are essential GHR responsibilities. The importance of green human resource policy development cannot

be overlooked.

Raza and Khan (2022) did work on impact of green human resource practices on hotel environmental performance. This study aims to analyse the impact of green human resources management (GHRM) practices on hotel environmental performance (HEP) by incorporating environmental knowledge (EK) and individual green values (IGV) as a moderator. Data was gathered from 329 white-collar employees of Pakistan's guest service hotels. The results reveal that GHRM practices positively correlate with employees' affective commitment (EAC) and eco-friendly behaviour. He suggested management should embrace green human resource practices for better environmental performance. Hotels should ensure that all green human resource management attributes, such as green recruitment, training and compensation, are rightly executed.

Salamh and Muhammed (2022) aimed towards demonstrating the impact of green human resource management practices. The sample size was taken as 260 and location was Kirkuk Cement Factory. The findings were that the laboratory management was keen to display green performance evaluation indicators that are environmentally friendly to all employees in order to view them and know their objectives.

Hameed et.al (2023) did conducted a study over pro-environmental behaviour through the lens of green human resource practices. This study developed a theoretical framework and investigated the mediating impact of pro-environmental psychological climate (PEPC) between green human resource management (GHRM) and pro-environmental behaviour (PEB) of the employees working under CPEC in Pakistan. Data was collected from 388 employees working under China-Pakistan Economic Corridor project. The findings suggest that GHRM practices have an impact on organizations' pro-environmental psychological climate and employees' pro-environmental behaviour.

# CHAPTER 3

# RESEARCH METHODOLOGY

## 3.1 IMPORTANCE AND NEED OF STUDY:

The study of Green Human Resource Management (GHRM) has gained significant importance due to the growing recognition of environmental sustainability and its impact on organizations. By integrating sustainability principles into HRM practices, GHRM addresses the need for organizations to adopt environmentally responsible behaviors and contribute to a greener future. Several reasons highlight the importance and need for the study of GHRM: Pham (2020)

1. **Environmental Challenges:** The world faces pressing environmental challenges, such as climate change, resource depletion, and pollution. Organizations have a responsibility to minimize their ecological footprint and actively participate in sustainable practices. GHRM provides a framework for organizations to incorporate environmental considerations into HRM strategies, fostering sustainability consciousness throughout the workforce.
2. **Competitive Advantage:** Embracing green practices can provide organizations with a competitive advantage. Consumers are increasingly conscious of environmental issues and prefer to support environmentally responsible companies. GHRM enables organizations to align their values with those of environmentally conscious consumers, enhancing their reputation, brand image, and market competitiveness.
3. **Regulatory Compliance:** Environmental regulations are becoming stricter, requiring organizations to adhere to environmental standards and minimize negative environmental impacts. GHRM ensures that organizations develop policies and practices that comply with environmental regulations, mitigating legal risks and potential financial penalties.
4. **Employee Engagement and Retention:** GHRM contributes to employee engagement and retention. Research shows that employees are more satisfied and committed to organizations that demonstrate a commitment to environmental sustainability. GHRM initiatives, such as employee involvement in sustainability projects and green training programs, foster a sense of purpose and fulfillment among employees, leading to higher job satisfaction and increased employee loyalty.
5. **Resource Efficiency and Cost Savings:** GHRM promotes resource efficiency and cost savings within organizations. By implementing energy conservation measures,

waste reduction initiatives, and sustainable procurement practices, organizations can reduce their resource consumption and lower operational costs. GHRM helps identify opportunities for resource efficiency, resulting in financial savings and improved operational performance.

6. **Innovation and Creativity:** Integrating green practices into HRM can spur innovation and creativity within organizations. GHRM encourages employees to develop innovative solutions to environmental challenges, fostering a culture of creativity and problem-solving. This can lead to the development of new eco-friendly products, processes, and services, creating opportunities for organizational growth and competitive advantage Sharma (2020).

## 3.2 OBJECTIVES OF THE STUDY:

Green Human Resource Management being a new and emerging concept that has huge impact over environment and also industries and their work-place. The area of study is kept over pharmaceutical companies due to large number of pharmaceutical companies over Himachal Pradesh specially Solan District which is known as the pharmaceutical hub of North India. Practice of GHRM practices would ensure that they are sustainable over long term and also it will benefit environment.

The main objectives of this study are:

1. To study the awareness of employees regarding GHRM practices in Pharmaceutical Companies.
2. To study the perception of employees regarding GHRM practices in Pharmaceutical Companies.
3. To study the factors affecting awareness and perception of GHRM practices in Pharmaceutical Companies.
4. To find out the Barriers to implementation of GHRM Practices.

## 3.3 DATA COLLECTION

Data collection refers to the process of collecting data from the various relevant sources for the purpose to find the answers of the research problem. For the present study data has been collected from both the primary and secondary sources.

### 3.3.1 Locale of Study

The location of the study area should be appropriate to achieve all the objectives of theresult. The locale for this present study was the Baddi (Solan District), Himachal Pradesh. The data was collected from the employees of the Pharmaceutical Companies.

### 3.3.2 Sample Technique

Data was collected from employees of pharmaceutical companies through convenience sampling.

### 3.3.3 Sample Size

The current study's sample size was capped at 125 participants.

### 3.3.4 Primary data

Primary data is the data which is collected by researcher directly from the original/ first hand sources by using various methods such as questionnaire, interview etc. keeping in mind the research topic. Opinion of the respondent for present has been collected through questionnaire.

### 3.3.4 Secondary data

Secondary data is the data that is originally collected by someone other than the user. Generally, obtain data from the various published and unpublished sources. The data for the present study has been collected from journals, websites, books, articles, etc.

### 3.3.5 Questionnaire Design

It is the part of Primary Data. The questionnaire consists of four parts i.e., “Part 1”, “Part 2”, “Part 3” and “Part 4”. The information in Part 1 consists of various demographic variables such as name, age, gender, position in which the employees are working, and total experience in the Pharmaceutical Sector. Part 2 was designed to know about the awareness of employees regarding GHRM practices. Part 3 was designed to know about the perception of employees regarding GHRM practices. Part 4 was designed to check the factors affecting the Awareness and Perception of employees toward GHRM practices.

## 3.4 TOOLS USED FOR ANALYSIS

Data collected through questionnaire has been sorted and tabulated. The analysis of the collected data has been done with statistical tools such as percentages, mean, S.D, etc.

### (a) Percentage analysis

A percentage is the dimensionless number. It is often denoted using per cent sign “%”. It is defined as the ratio expressed as a fraction of 100.

$$\mathbf{P} = \frac{X}{Y} \times 100$$

Where,

P = percentage

X = no. of respondents falling in a specific category to be measured

Y = total no. of respondents

### (b) Mean

It is the representative value of the group of data. It is the most commonly used and easily understood measure of central tendency. The arithmetic mean of a set of observed data is defined as being equal to the sum of the numerical values of each and every observation

divided by the total number of the observations.

$$A = \frac{1}{n}\sum_{i=1}^{n} ai \ = \frac{a_{1+}\, a_{2+\cdots+}\, a_n}{n}$$

Where,

| | | |
|---|---|---|
| A | = | Mean |
| ai | = | value of $i^{th}$ item |
| n | = | total no. of item |
| ∑ | = | sigma which stands for summation |

**(c) Standard Deviation**

Standard Deviation (SD) is a statistical measure that captures the difference between the average and the outliers in a set of data. It measures how volatile a set of data is. A low standard deviation indicates that the values tend to be close to the mean of the set, while a high standard deviation indicates that the values are spread out over a wider range.

$$\sigma = \sqrt{\frac{\sum(xi - \mu)^2}{N}}$$

Where,

| | | |
|---|---|---|
| $\sigma$ | = | population standard deviation |
| $xi$ | = | Each value from the population |
| $N$ | = | The size of the population |
| $\mu$ | = | the population mean |

**(c) Total Weighted Score**

Maximum Weighted Rating System or Total Weighted Score is process of assigning various weights according to their significance and multiplying the values of the elements (X) by the weights (w) as given. So, apply scores to get the cumulative weights of all products and the highest score will get the first rank and the lowest rank has been the one that gets the lowest rating.

# CHAPTER 4

# Data Analysis and Interpretation

## 4.1 Demographic profile of the respondents:

This part of the chapter is dedicated to study Socio-Demographic Profile of the employees in Pharmaceutical Companies of Solan District of Himachal Pradesh. The presented results came out from the field survey 2023.

### 4..1.1 Gender of respondents

**Table 4.1 Gender**

| Gender | Frequency | Percentage |
|---|---|---|
| **Male** | 73 | 58.40 |
| **Female** | 52 | 41.60 |
| **Total** | **125** | **100.00** |

Table 4.1 depicted the gender of the respondents. It is clearly seen that the frequency of the Male is 73 which is (58.40 percent) of the total respondents and the frequency of Female is 52 which makes a percentage of (41.60 percent).

### 4.1.2 Position in which respondents are working

**Table 4.2 Positions**

| Position in which you are working | Frequency | Percentage |
|---|---|---|
| **Entry Level** | 29 | 23.20 |
| **Mid- Level** | 36 | 28.80 |
| **Senior Level** | 51 | 40.80 |
| **Human Resource Manager** | 6 | 4.80 |
| **General Manager** | 3 | 2.40 |
| **Total** | **125** | **100.00** |

Table 4.2 represented the position in which employee are currently working. From the above data it is clear that most of respondents were from the Senior level (51 or 40.80 percent) and the least are from General Managers (3 or 2.40 percent).

### 4.1.3 Total experience in pharmaceutical organization of the respondents

**Table 4.3 Total experience**

| Total experience | Frequency | Percentage |
|---|---|---|
| **0-5 years** | 59 | 47.20 |
| **6-10 years** | 31 | 24.80 |
| **11-15 years** | 24 | 19.20 |
| **16-20 years** | 11 | 8.80 |
| **Total** | **125** | **100.00** |

Table 4.3 represented the total experience in years and most of the respondents have 0-5 years (59 or 47.20 percent) and the least majority has 16-20 years of experience in Pharmaceutical Companies (11 or 8.80 percent).

## 4.2 Statements regarding checking of awareness of GHRM practices:

These statements were collected to check the awareness of GHRM practices among employees of Pharmaceutical Companies of Solan District in Himachal Pradesh.

### 4.2.1 Statements regarding the evaluation of awareness of employees of pharmaceutical companies:

**Table 4.4 Awareness evaluation statements**

| Statements | Yes (%) | No (%) |
|---|---|---|
| **Do you know about GHRM?** | 107 (85.60) * | 18 (14.40) * |
| **Does your company use Green Human Resource Practices?** | 102 (81.60) * | 23 (18.40) * |
| **Do you think Human Resource Management has direct involvement in GHRM?** | 115 (92.00) * | 10 (8.00) * |

***Represent percentage in terms of awareness**

The data revealed that a high percentage of participants were aware of GHRM (85.60 percent) and indicated that their company uses Green HR practices (81.60 percent). Furthermore, a significant percentage (92.0 percent) believed that Human Resource Management played a direct role in GHRM.

### 4.2.2 Statements to evaluate the awareness of employees regarding GHRM practices:

**Table 4.5 Awareness evaluation statements**

| Statements | Yes (%) | No (%) |
|---|---|---|
| **Does GHRM practices have a positive impact on employee satisfaction and productivity** | 102 (81.60) * | 23 (18.40) * |
| **Is it important for Organization to adopt GHRM** | 111 (88.80) * | 14 (11.20) * |
| **Do you have a responsibility to adopt GHRM in your workplace** | 115 (92.00) * | 10 (8.00) * |
| **Adopting GHRM can improve your workplace culture** | 115 (92.00) * | 10 (8.00) * |
| **GHRM practices can help your organization save money in the long run** | 116 (92.80) * | 9 (7.20) * |
| **Adopting GHRM practices can contribute to a healthy work environment** | 114 (91.20) * | 11 (8.80) * |

*** Represents percentage in terms of awareness**

According to the Table 4.5 results, it is evident that a significant portion of the participants (81.60 percent) believed that GHRM practices has a positive impact on employee satisfaction and productivity and there was a widespread agreement (88.80 percent) on the importance of organizations adopting GHRM. The results indicated that individuals felt personal responsibility (92.00 percent) to implement GHRM in their workplaces. There is still a notable proportion (92.80 percent) believes that GHRM Practices can help the organization to save money in the long run. However, it is worth noting that a significant percentage of participants (8.80 percent) indicating the negligence about the adoption of GHRM practices can contribute to a healthy work environment

### 4.2.3 Frequency of training or awareness sessions related to GHRM practices be conducted

**Table 4.6 Frequency of training**

| Frequency of training related to GHRM | Frequency | Percentage |
|---|---|---|
| **Never** | 4 | 3.20 |
| **Once or twice** | 71 | 56.80 |
| **Occasionally** | 50 | 40.00 |
| **Frequently** | 0 | 0.00 |
| **Regularly** | 0 | 0.00 |
| **Total** | **125** | **100.00** |

Table 4.6 represented the frequency of training or sessions related to GHRM practices conducted. They had sessions once or twice (71 or 56.80 percent). The data also showed that there is a lack of training and training sessions should be held more frequently or regularly.

### 4.2.4 How important it is for employees to be educated for GHRM practices?

**Table 4.7 Awareness regarding education for GHRM practices**

| Employees education regarding GHRM practices | Frequency | Percentage |
|---|---|---|
| **Not at all** | 0 | 0.00 |
| **Slightly Important** | 0 | 0.00 |
| **Moderately Important** | 33 | 26.40 |
| **Very Important** | 51 | 40.80 |
| **Extremely Important** | 41 | 32.80 |
| **Total** | **125** | **100.00** |

Table 4.7 represented the importance for employees to be educated for GHRM practices. The majority of respondents (51 or 40.80 percent) felt that it is very important according to them and the least respondents said (33 or 56.40 percent) that it is only moderately important to provide education for GHRM practices.

### 4.2.5 How satisfied are you with your organization level of commitment towards implementing GHRM practices?

**Table 4.8 Employee Commitment Satisfaction.**

| Satisfaction with your organization commitment | Frequency | Percentage |
|---|---|---|
| **Very Dissatisfied** | 0 | 0.00 |
| **Dissatisfied** | 0 | 0.00 |
| **Neutral** | 19 | 15.20 |
| **Satisfied** | 82 | 65.60 |
| **Very Satisfied** | 24 | 19.20 |
| **Total** | **125** | **100.00** |

The table 4.8 depicted the satisfaction level with the organization's commitment towards implementing Green Human Resource Management (GHRM) practices was generally high. The majority of respondents, accounting for (82 or 65.60 percent), reported being satisfied with their organization's level of commitment. Additionally, a significant number of respondents, (24 or 19.20 percent), expressed being very satisfied with their organization's commitment to GHRM practices. It was worth noting that a portion of respondents, (19 or 15.20 percent), indicated a neutral stance regarding their satisfaction level.

**4.2.6 To what extent do you feel empowered to promote and implement GHRM practices in your organization's working environment?**

**Table 4.9 Employee empowerment perception.**

| Empowerment to promote and implement GHRM practices in your organization | Frequency | Percentage |
|---|---|---|
| **Not Empowered at all** | 0 | 0.00 |
| **Slightly Empowered** | 0 | 0.00 |
| **Moderately Empowered** | 21 | 16.80 |
| **Very Empowered** | 78 | 62.40 |
| **Extremely Empowered** | 26 | 20.80 |
| **Total** | **125** | **100.00** |

The survey results indicated that a significant majority of respondents (78 or 62.40 percent), felt very empowered to promote and implement Green Human Resource Management (GHRM) practices in their organization's working environment. An additional (26 or 20.80 percent) of respondents reported felt extremely empowered and (21 or 16.20 percent) of respondents indicated feeling moderately empowered, suggesting a reasonable level of empowerment but with some room for improvement.

## 4.3 Statements regarding perception of employees towards GHRM Practices:

These statements were used to evaluate the perception of employees towards GHRM Practices.

### 4.3.1 Perception of Employees

**Table 4.10 Perception of Employees towards GHRM Practices**

| Statements | S.A | A | N | D | S.D. | Total Score | Mean | SD | Rank |
|---|---|---|---|---|---|---|---|---|---|
| | 5 | 4 | 3 | 2 | 1 | | | | |
| My organization has implemented GHRM practices to promote sustainability. | 21 | 54 | 31 | 19 | 0 | 452 | 3.61 | 0.94 | VII |
| GHRM practices positively impact the environment | 26 | 58 | 23 | 18 | 0 | 467 | 3.73 | 0.952 | VI |
| GHRM practices contribute to employee satisfaction and well being | 44 | 41 | 18 | 22 | 0 | 482 | 3.85 | 1.09 | III |
| Organization provides adequate training and resources for employees to adopt GHRM practices | 42 | 41 | 15 | 27 | 0 | 473 | 3.78 | 1.13 | V |
| GHRM practices align with organization value and mission | 45 | 42 | 16 | 22 | 0 | 485 | 3.88 | 1.09 | II |
| GHRM practices positively affect the organization financial performance | 37 | 33 | 44 | 11 | 0 | 471 | 3.76 | 0.97 | IV |
| GHRM practices are effective in reducing the organization carbon footprint | 46 | 47 | 17 | 15 | 0 | 499 | 3.992 | 0.99 | I |
| Organization GHRM practices are aligned with your personal values | 44 | 24 | 24 | 33 | 0 | 454 | 3.632 | 1.21 | VIII |
| Overall Mean | | | | | | | 3.77 | | |

**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree, SD =Standard Deviation)**

The data the table 4.10 showed that GHRM practices were effective in reducing the organization's carbon footprint. This statement received the highest mean score (3.99) and

having standard deviation of (0.99) is ranked first. Secondly, GHRM practices aligned with the organization's values and mission, indicating that they were in line with the overall purpose and goals of the organization. It received a high mean score of (3.88) and a standard deviation of (1.09), hence ranked second. Furthermore, GHRM practices contributed to employee satisfaction and well-being, indicated a high mean score (3.85) and a standard deviation of (1.09) and ranked third. The data also suggested that the organization provides adequate training and resources for employees to adopt GHRM practices. The mean score for this statement is moderately high (3.78) and a standard deviation of (1.13) ranked fifth.

Moreover, GHRM practices positively impacted the environment, understood their role in promoting ecological well-being. This statement received a moderate mean score of (3.73) and a standard deviation of (0.92) ranked sixth. Furthermore, the organization's GHRM practices being aligned with personal values is an important aspect. The mean score for this statement was moderate (3.63) and a standard deviation of (1.21), ranked eighth. The overall mean is 3.77.

**Q4.3.2 Most attractive GHRM practices in your organization:** These Questions were asked to check about the most attractive practices that the employees think about.

**Table 4.11 Most attractive GHRM practices**

| GHRM practices | Yes | No |
|---|---|---|
| **Job Sharing** | 63<br>(50.40) * | 62<br>(49.60) * |
| **Online Training** | 95<br>(76.00) * | 30<br>(24.00) * |
| **Energy-Efficient Office Space** | 120<br>(96.00) * | 5<br>(4.00) * |
| **Transport Pooling** | 95<br>(76.00) * | 30<br>(24.00) * |
| **Telecommunication** | 81<br>(64.80) * | 44<br>(35.20) * |

*** Represent percentage**

Job sharing, as a flexible work arrangement, was embraced by 63 respondents, accounting for 50.4 percent) of the total, while 62 respondents (49.60 percent) chose not to adopt this practice. Online training emerged as a popular choice, with 95 respondents (76.00 percent) recognizing its value for employee development, while 30 respondents (24.00 percent) did

not avail themselves of this opportunity for skill enhancement. Energy-efficient office spaces were highly prioritized, with 120 respondents (96.00 percent) implementing sustainable measures, whereas a mere 5 respondents (4.00 percent) neglected to incorporate such environmentally friendly practices. Transport pooling, a practice aimed at reducing carbon footprint and promoting cost savings, was adopted by 95 respondents (76.00 percent), while 30 respondents (24.00 percent) did not embrace this initiative. Telecommunication, as a means of fostering remote collaboration and flexibility, was utilized by 81 respondents (64.80 percent), whereas 44 respondents (35.20 percent) did not recognize its potential benefits.

### 4.3.3 Implementation of rewards to develop eco-friendly organization:

**Table 4.12 Implementation of rewards**

| Implementation of Rewards | Frequency | Percentage |
|---|---|---|
| **Yes** | 0 | 0 |
| **No** | 125 | 100.00 |
| **Total** | **125** | **100.00** |

The data in table 4.12 shows that the organization does not currently have a rewards system in place to recognize and incentivize employees for their performance or achievement.

**Q4.3.4 Best practices for going green can be:**

**Table 4.13 Best practices**

| GHRM practices | Yes | No |
|---|---|---|
| **Eliminating Excess use of paper** | 66 (52.80) * | 59 (47.20) * |
| **Less use of Plastic Bottles** | 97 (77.60) * | 28 (22.40) * |
| **Energy Efficient Lighting** | 112 (89.60) * | 13 (10.40) * |
| **Reducing Carbon Footprint** | 90 (72.00) * | 35 (28.00) * |
| **Reducing Waste** | 63 (50.40) * | 62 (49.60) * |
| **Planting More Trees** | 66 (52.80) * | 59 (47.20) * |

*** Represent percentage**

The excess use of paper was recognized as an area for improvement, and 66 respondents (52.80 percent) took steps to eliminate unnecessary paper consumption, while 59 respondents (47.20 percent) did not fully address this issue. Less use of plastic bottles was widely acknowledged, with 97 respondents (77.60 percent) implementing measures to reduce plastic bottle usage, while 28 respondents (22.40 percent) did not prioritize this eco-friendly initiative. Energy-efficient lighting was a key focus, and 112 respondents (89.60 percent) adopted energy-saving lighting solutions, while 13 respondents (10.40 percent) did not embrace this environmentally conscious choice. Reducing carbon footprint was a significant priority, and 90 respondents (72.00 percent) implemented strategies to minimize their carbon emissions, while 35 respondents (28.00 percent) had limited action in this area. Efforts to reduce waste were made by 63 respondents (50.40 percent), recognizing the importance of waste management practices, while 62 respondents (49.60 percent) had limited implementation of waste reduction initiatives. Planting more trees was embraced by 66 respondents (52.80 percent) as a means of promoting environmental sustainability, while 59 respondent's 47.20 percent) did not actively engage in tree-planting initiatives.

**4.4 Barriers to implementation of GHRM practices:** These statements were asked to know about the barriers regarding the implementation of GHRM practices in organizations.

**Table 4.14 Barriers to implementation of GHRM practices**

| Statements | Frequency | Percentage |
|---|---|---|
| **Cost of implementing the program** | 42 | 33.60 |
| **Complexity and difficulty of adoption of green technology and the lack of understanding of green policies** | 66 | 52.80 |
| **Lack of support by management** | 17 | 13.60 |
| **Staff Resistance** | 0 | 0.00 |
| **Total** | **125** | **100.00** |

The data in Table 4.14 shows that approximately one-third (33.60 percent) of the respondents identified cost as a significant factor. More than half (52.80 percent) of the respondents highlighted the complexity and difficulty of adopting green technology, along with a lack of understanding of green policies, as barriers. A notable portion (13.60 percent) of the respondents indicated a lack of support by management as a potential obstacle. Interestingly, none of the respondents reported staff resistance as a barrier.

## 4.5 Factors affecting awareness and perception of employees towards GHRM practices in organizations:

These statements were asked to evaluate the factors affecting awareness and perception of employees towards GHRM Practices in organizations.

### 4.5.1 Government policies affecting awareness and perception of employees towards GHRM practices in organizations

**Table 4.15 Government Policies**

| Statements | SA | A | N | D | SD | Total Score | Mean | SD | |
|---|---|---|---|---|---|---|---|---|---|
| | 5 | 4 | 3 | 2 | 1 | | | | |
| There is a clear govt policy on implementation of GHRM | 16 | 63 | 32 | 14 | 0 | 456 | 3.64 | 0.84 | III |
| Management organization adheres to the govt policy on GHRM | 28 | 80 | 12 | 5 | 0 | 506 | 4.04 | 0.69 | II |
| The HR Department aligns policies to change in govt policy on GHRM | 35 | 67 | 18 | 5 | 0 | 507 | 4.05 | 0.76 | I |
| Overall Mean | | | | | | | 3.91 | | |

**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree, SD =Standard Deviation)**

Table 4.15 results provided valuable insights into how employees perceive government policies and their alignment with the organization's Human Resource Management (HRM) practices having a mean of 3.64 and a standard deviation of 0.84. They believe that there is a clear government policy on GHRM, although there was still room for improvement in terms of clarity and communication. Thus, this is ranked third. Moreover, employees had a strong belief that the management organization adhered to the government policy on GHRM. This had a mean of 4.048 and a standard deviation of 0.69 and thus it was ranked second. Furthermore, employees highly appreciated the HR Department's efforts to align policies

with changes in government policy on GHRM. It had a mean of 4.05 and a standard deviation of 0.76 and thus it was ranked first. The overall mean was found to be 3.91.

### 4.5.2 Environmental Factors Affecting Awareness and Perception of Employees towards GHRM practices in Organization

**Table 4.16 Environmental factors**

| Statements | SA | A | N | D | SD | Total Score | Mean | SD | Rank |
|---|---|---|---|---|---|---|---|---|---|
| | 5 | 4 | 3 | 2 | 1 | | | | |
| **The political environment encourages the implementation of GHRM in my organization.** | 12 | 58 | 32 | 23 | 0 | 434 | 3.47 | 0.9 | **III** |
| **The economy of the country facilitates the implementation of GHRM in my organization.** | 38 | 41 | 22 | 24 | 0 | 468 | 3.74 | 1.09 | **I** |
| **The govt policy on the adoption of GHRM is likely to transform organizations to better service delivery.** | 26 | 59 | 16 | 24 | 0 | 462 | 3.69 | 1.01 | **II** |
| **Overall Mean** | | | | | | | **3.63** | | |

**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree, SD =Standard Deviation)**

This table 4.16 provided valuable insights into how employees perceived the impact of the political and economic environment on the implementation of Green Human Resource Management (GHRM) practices in their organization. Firstly, employees expressed a moderate perception that the political environment encouraged the implementation of GHRM in their organization. The statement has a mean of 3.47 and a standard deviation of 0.9 and thus ranked third. On the other hand, employees had a positive belief that the country's economy facilitates the implementation of GHRM in their organization. Thus, it was ranked first and had a mean of 3.74 and a standard deviation of 1.09 and ranked first. Furthermore, employees saw the potential for government policies on GHRM adoption to transform their organization and enhanced service delivery. Thus, it was ranked second and having a mean of 3.69 and standard deviation of 1.01. The overall mean was found to be 3.63.

### 4.5.3 Factors Affecting Awareness and Perception of Employees towards GHRM Practices in Organization

**Table 4.17 Top Management Commitment**

| Statements | SA | A | N | D | SD | Total Score | Mean | SD | Rank |
|---|---|---|---|---|---|---|---|---|---|
| | 5 | 4 | 3 | 2 | 1 | | | | |
| Top management commits resources to GHRM initiatives. | 18 | 69 | 15 | 23 | 0 | 457 | 3.65 | 0.94 | III |
| A sizeable budget is allocated to the implementation of GHRM in my organization | 25 | 31 | 36 | 33 | 0 | 423 | 3.38 | 1.08 | IV |
| Through the use of GHRM management provides planning and coordination to employees. | 37 | 48 | 25 | 15 | 0 | 482 | 3.85 | 0.98 | I |
| Top management approves implementation of GHRM and align it with the strategic business goals of the organization | 42 | 50 | 4 | 29 | 0 | 480 | 3.84 | 1.13 | II |
| Overall Mean | | | | | | | 3.68 | | |

**A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree, SD =Standard Deviation)**

The survey results shed light on employees' perspectives regarding the commitment and support of top management towards Green Human Resource Management (GHRM) initiatives in their organization. Firstly, employees recognized that top management shows a moderate level of commitment by allocating resources to GHRM initiatives. The mean of this statement was 3.65 and the standard deviation is 0.94 thus ranked it third. In terms of budget allocation, employees perceive that a reasonable amount is allocated to the implementation of GHRM practices. That is why it is ranked fourth and has a mean of 3.38 and a standard deviation of 1.08. Employees strongly agree that GHRM practices facilitate effective planning and coordination from management. Then it is ranked first having a mean of 3.85 and standard deviation of 0.98. Furthermore, employees acknowledge that top management approves the implementation of GHRM and aligns it with the strategic business goals of the organization. That's why it had a mean 3.84 and a standard deviation of 1.13. The overall mean was 3.68.

### 4.5.4 Factors Affecting Awareness and Perception of Employees towards GHRM Practices in Organization

**Table 4.18 Organization Culture**

| Statements | SA | A | N | D | SD | Total Score | Mean | SD | Rank |
|---|---|---|---|---|---|---|---|---|---|
| | 5 | 4 | 3 | 2 | 1 | | | | |
| **Communication between managers and employees motivates in the implementation of GHRM practices** | 30 | 4 | 52 | 39 | 0 | 275 | 2.2 | 1.12 | **II** |
| **Implementation of GHRM requires a culture of team work.** | 33 | 6 | 43 | 43 | 0 | 279 | 2.232 | 1.18 | **I** |
| **We are involved in the implementation of Green and other environment sustainability programs in the organization.** | 28 | 4 | 47 | 46 | 0 | 264 | 2.112 | 1.13 | **III** |
| **GHR decisions are made in line with the values of the organization.** | 29 | 3 | 42 | 51 | 0 | 260 | 2.08 | 1.16 | **IV** |
| **Overall Mean** | | | | | | | **2.15** | | |

**(= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree, SD =Standard Deviation)**

When it comes to implementing Green Human Resource Management (GHRM) practices, effective communication between managers and employees believes that open and transparent communication channels were crucial for motivating and engaging them in the adoption of sustainable practices. That's why it was ranked second and has mean of 2.2 and a standard deviation of 1.12. GHRM practices were need for a culture of teamwork that's why it was ranked first and had a mean score of 2.32 and a standard deviation of 1.18. Employees also expressed their involvement in Green and other environmental sustainability programs within their organization. Then only it was ranked third having a mean of 2.12 and a standard deviation of 1.13 Furthermore, employees emphasized the importance of GHR decisions aligning with the values of the organization. It was ranked fourth and has a mean of 2.08 and a standard deviation of 1.16. The overall mean was found to be 2.15.

### 4.5.6 Factors Affecting Awareness and Perception of Employees towards GHRM Practices in Organization

**Table 4.19 Leadership Style**

| Statements | SA | A | N | D | SD | Total Score | Mean | SD | Rank |
|---|---|---|---|---|---|---|---|---|---|
| | 5 | 4 | 3 | 2 | 1 | | | | |
| **Employees are involved in the design and implementation process of GHRM practices.** | 43 | 9 | 45 | 28 | 0 | 442 | 3.536 | 1.18 | **II** |
| **Employees input is sought in the implementation of GHRM practices.** | 23 | 8 | 57 | 37 | 0 | 392 | 3.136 | 1.04 | **III** |
| **The leaders of the organization are involved in the implementation of GHRM.** | 39 | 28 | 24 | 34 | 0 | 447 | 3.576 | 1.19 | **I** |
| **Overall Mean** | | | | | | | **3.41** | | |

**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree, SD =Standard Deviation)**

In the implementation of Green Human Resource Management (GHRM) practices, employee involvement, and engagement were key factors for success That's why it was ranked second and had a mean of 3.53 and a standard deviation of 1.18. This involvement empowers employees and enhanced their commitment to the organization's sustainability goals. Similarly, employees highlighted the importance of their input being sought in the implementation of GHRM practices. By seeking employee input, organizations could tap into the diverse knowledge and experiences of their workforce, leading to more comprehensive and effective GHRM practices. It had a rank of third and a mean of 3.13 and 1.04. Furthermore, employees recognized the crucial role those organizational leaders played in the implementation of GHRM. That's why it is ranked first and has a mean of 3.57 and a standard deviation of 1.19. The overall mean was 3.416.

### 4.5.7 Ranking of factors affecting awareness and perception as per overall mean score

**Table 4.20 Ranking according to overall mean score**

| Factors | Overall mean score | Rank |
|---|---|---|
| **Government policies** | 3.91 | **I** |
| **Environmental factors** | 3.63 | **III** |
| **Top management commitment** | 3.68 | **II** |
| **Organization culture** | 2.15 | **V** |
| **Leadership style** | 3.41 | **IV** |

Table 4.20 explained about the various factors that affect GHRM practices. According to overall mean score Government Policies have the highest mean of 3.91 and ranked first. This signified that Government Policies is the most important factor that impacts the awareness and perception of GHRM practices. The second rank was given to top management commitment having mean of 3.68 and this showed us that top management commitment also plays a important role also environmental factors and leadership style were ranked third and fourth respectively with mean of 3.63 and 3.41. Organization culture was ranked last with overall mean of 2.15 which shows that employees don't consider it as an important factor as compared to rest of the factors.

# CHAPTER 5

# Findings, Conclusion & Suggestions

## Conclusion:

The conclusion that is significant and arise from the data analysis are covered in this chapter. In this study, 125 individuals were questioned.

Based on the information provided it was concluded that:

1. **Demographic Profile:** The majority of respondents in the survey were male (58.40%) and held senior-level positions (40.80%). The largest group of respondents had 0-5 years of experience (47.20%).
2. **Awareness about GHRM:** The survey findings showed a high level of awareness and adoption of Green HR practices within the organization. Respondents expressed interest in making their organization environmentally friendly and believed that HR played a direct role in GHRM. They perceived GHRM practices as beneficial for employee satisfaction, productivity, workplace culture, cost savings, organizational reputation, and promoting a healthy work environment.
3. **Need for Training and Education:** Some participants indicated a lack of knowledge about how to implement GHRM in their daily work, highlighting a need for training and educational initiatives. Regular training sessions and educating employees about GHRM practices were considered important.
4. **Perception of Employees:** Employees perceived GHRM practices as positively impacting the environment, employee satisfaction and well-being, the organization's values and mission, its reputation and image, and financial performance. GHRM practices were also seen as effective in reducing the organization's carbon footprint and contributing to a positive work culture.
5. **Adoption of GHRM Practices:** Video conferencing, telecommunication, flexi timing, eco-friendly paper bags, rainwater harvesting, and company transport were among the GHRM practices implemented in the organization. Video conferencing and telecommunication were widely used practices.
6. **Rewards system:** The organization lacked a rewards system to recognize and incentivize employees for their performance or achievements.
7. **Barriers to GHRM:** Cost, complexity of adoption, and lack of understanding of green policies were perceived as barriers to implementing green programs. Addressing these challenges was crucial for successful sustainability initiatives.

8. **Factors Affecting GHRM Practices:** Employees positively perceived government policies and their alignment with the organization's HRM practices. Clear communication, adherence, and adaptability to government regulations were important factors for successful GHRM implementation.

**Suggestions:**

1. Although many were aware of the GHRM Practices still few aren't aware so organizations can spread more awareness so that more employees are aware of it.
2. Few respondents aren't still aware or aren't having knowledge about implementing GHRM Practices. So, Organizations should take more initiative to educate the employees regarding the knowledge about how to implement GHRM in their daily work.
3. The training regarding GHRM Practices should be conducted frequently and regularly in order to increase the awareness of the employees.
4. The organization should have rewards to develop Eco-Friendly Organization.
5. A notable portion of the respondents indicated a lack of support by management as a potential obstacle. Organizations should take measures in order to reduce them.

**Findings:**

1. The survey shows that the most of respondents were from the Senior level (51 or 40.80 percent).
2. As per the survey, 92.00 percent respondents believed that Human Resource Management played a direct role in GHRM.
3. According to the survey done, 92.80 percent think that GHRM Practices can help the organization to save money in the long run.
4. The survey also showed that there is a lack of training and training sessions should be held more frequently or regularly to aware people regarding GHRM Practices.
5. As per the Survey,36% of respondents believes that GHRM practices align with organization value and mission.
6. As pe rthe study, mostly believes that there is a clear government policy on GHRM, although there was still room for improvement in terms of clarity and communication.

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# ANNEXURE

# QUESTIONNAIRE

I am **Aditi Sharma**, student of Business Administration from **Himachal Pradesh Regional Centre,** having a research topic **Employees Awareness and Perception about Green Human Resource Practices in Pharmaceutical Companies of Himachal Pradesh.** I am here to conduct a survey for my research project from your esteemed Organization which would help me in fulfillment of my project.

## PART-1

## Demographic Profile

**Name:**

**Age:**

**Q1. Gender:** Male ☐ Female ☐

**Q2. Position in which you are working**

(a) Entry level ☐ (b) Mid-level ☐ (c) Senior level ☐
(d) Human Resource Manager ☐ (e) General Manager ☐
(f) Any Other_____

**Q3. Total Experience in Pharmaceutical Sector**

(a) 0-5 years ☐ (b) 6-10 years ☐ (c) 11-15 years ☐
(d) 16-20 years ☐

## Part-2

**Awareness of Employees regarding Green Human Resource Practices (GHRM)**
**Q4. Please tick the appropriate answers for the following statements**

| Sr.No | Statements | Yes | No |
|---|---|---|---|
| 1. | Do you know about GHRM | | |
| 2. | Does your company use Green Human Resource Practices | | |
| 3. | Do you think Human Resource Management has direct involvement in GHRM | | |

**Q5. Kindly rate the appropriate statements given below**

| Sr. No | Statements | Aware (Yes) | Not-Aware (No) |
|---|---|---|---|
| 1. | Does GHRM practices have a positive impact on employee satisfaction and productivity | | |

| | | | |
|---|---|---|---|
| 2. | Is it important for Organization to adopt GHRM | | |
| 3. | Do you have a responsibility to adopt GHRM in your workplace | | |
| 4. | Adopting GHRM can improve your workplace culture | | |
| 5. | GHRM practices can help your organization save money in long run | | |
| 6. | Adopting GHRM practices can contribute to healthy work environment | | |

**Q6. At what frequency should any training or awareness sessions related to GHRM practices be conducted in your organization?**

(a) No, never ☐ (b) Once or Twice ☐ (c) Occasionally ☐

(d) Frequently ☐ (e) Regularly ☐

**Q7. In your opinion, how important it is for employees to be educated and trained on GHRM practices?**

(a) Not important at all ☐ (b) Slightly Important ☐ (c) Moderately Important ☐

(d) Very Important ☐ (e) Extremely Important ☐

**Q8. How satisfied are you with the level of commitment your organization has towards implementing GHRM practices?**

(a) Very Dissatisfied ☐ (b) Dissatisfied ☐ (c) Neutral ☐

(d) Satisfied ☐ (e) Very Satisfied ☐

**Q9. To what extent do you feel empowered to promote and implement GHRM practices in your organization working environment?**

(a) Not at all empowered ☐ (b) Slightly Empowered ☐ (c) Moderately Empowered ☐

(d) Very Empowered ☐ (e) Extremely Empowered ☐

## Part-3

**Perception of employees towards Green Human Resource Practices:**

**Q10. Please tick the appropriate statements from below-given statements**
**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree)**

| Sr.No | Statements | S.D. | D | N | A | S.A. |
|---|---|---|---|---|---|---|
| 1. | My organization has implemented GHRM practices to promote sustainability. | | | | | |
| 2. | GHRM practices positively impact the environment | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3. | GHRM practices contribute to employee satisfaction and well being | | | | | |
| 4. | Organization provides adequate training and resources for employees to adopt GHRM practices | | | | | |
| 5. | GHRM practices align with organization value and mission | | | | | |
| 6. | GHRM practices positively affect the organization financial performance | | | | | |
| 7. | GHRM practices are effective in reducing the organization carbon footprint | | | | | |
| 8. | Organization GHRM practices are aligned with your personal values | | | | | |

**Q11. Most attractive GHRM practices in your organization**

- Job Sharing ☐
- Online Training ☐
- Energy Efficient Office Space ☐
- Transport Pooling ☐
- Teleconferencing ☐
- Others _____

**Q12. Implementation of Rewards to develop Eco-Friendly Organization**

(a) Yes ☐ (b) No ☐

**Q13. Best practice for going Green can be**

- Eliminating excess use of paper ☐
- Less use of plastic bottles ☐
- Energy-Efficient Lighting ☐
- Reducing Carbon Footprint ☐
- Reducing Waste ☐
- Planting more Trees ☐
- Others _____

**Q14. What do you think is the biggest barrier of GHRM**

- Cost of implementing program ☐
- Complexity and difficulty of adoption of green technology the lack of understanding of green policies ☐
- Lack of support by management ☐
- Staff Resistance ☐
- Others_____

## PART-4

**Factors affecting Awareness and Perception of Employees towards Green Human Resource Practices in Organization**

**Q15. Government Policy**

**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree)**

| Sr.No | Statements | S.A. | A | N | D | S.D. |
|---|---|---|---|---|---|---|
| 1. | There is a clear govt policy on implementation of GHRM | | | | | |
| 2. | Management organization adheres to the govt policy on GHRM | | | | | |
| 3. | The HR Department aligns policies to change in govt policy on GHRM | | | | | |

**Q16. Environment**

**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree)**

| Sr.No | Statements | S.A. | A | N | D | S.D. |
|---|---|---|---|---|---|---|
| 1. | The political environment encourages the implementation of GHRM in my organization | | | | | |
| 2. | The economy of the country facilitates the implementation of GHRM in my organization | | | | | |
| 3. | The govt policy on the adoption of GHRM is likely to transform public sector to better service delivery | | | | | |

**Q17. Top Management Commitment**

**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree)**

| Sr.No | Statements | S.A. | A | N | D | S.D. |
|---|---|---|---|---|---|---|
| 1. | Top management commits resources to GHRM initiatives. | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2. | A sizeable budget is allocated to implementation of GHRM in my organization | | | | | |
| 3. | Through the use of GHRM management provides planning and coordination to employees. | | | | | |
| 4. | Top management approves implementation of GHRM and align it with the strategic business goals of the organization | | | | | |

**Q18. Organization Culture**

**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree)**

| Sr.No | Statements | S.A. | A | N | D | S.D. |
|---|---|---|---|---|---|---|
| 1. | Communication between managers and employees motivates in the implementation of GHRM practices | | | | | |
| 2. | Implementation of GHRM requires a culture of team work. | | | | | |
| 3. | We are involved in the implementation of Green and other environment sustainability programs in the organization. | | | | | |
| 4. | GHR decisions are made in line with the values of the organization. | | | | | |

**Q19. Leadership Style**

**(S.A.= Strongly Agree, A= Agree, N= Neutral, D=Disagree, S.D.= Strongly Disagree)**

| S.No | Statements | S.A. | A | N | D | S.D. |
|---|---|---|---|---|---|---|
| 1. | Employees are involved in the design and implementation process of GHRM practices. | | | | | |
| 2. | Employees input is sought in the implementation of GHRM practices. | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3. | The leaders of the organization are involved in the implementation of GHRM. | | | | | |

**PROJECT REPORT**

**ON**

# JOB SATISFACTION AMONG EMPLOYEES OF BSNL IN DISTT KANGRA

**SUBMITTED IN PARTIAL FULFILLMENT OF**

**AWARD OF DEGREE OF**

MASTER OF BUSINESS ADMINISTRATION (MBA)

(SESSION 2022-2024)


**SUPERVISED BY:** **Dr. JATINDER KAUR**

**SUBMITTED BY:** **SHIVANI**

**ROLL NO:** **36222950024**

# DECLARATION FORM

I, do hereby declare that this project report entitled **"Job Satisfaction at Bharat Sanchar Nigam Limited (BSNL)"** is prepared on the basis of information collected by me during my survey, under the valuable guidance of Dr. Jatinder Kaur.

The findings and analysis are original & are true to the best of my knowledge. I bear full responsibility for information given in this report.

Place: Regional centre Khaniyara

Name of student: Shivani

# RECOMMENDATION OF THE SUPERVISOR

This is to certify that the work entitled **"Job Satisfaction at Bharat Sanchar Nigam Limited (BSNL)"** is the original work done by Shivani, Master of Business Management, H. P. University Regional Centre, Mohli, Khaniyara, Dharamshala under my guidance and supervision. She has devoted herself to the conduct of this work under my guidance and supervision as per the stipulated norms of the Himachal Pradesh University and this work has not been submitted for the award of any degree to any other university.

Dr. Jatinder Kaur

# ACKNOWLEDGEMENT

I am using this opportunity to express my gratitude to everyone who supported me throughout the course of this project. I am thankful for their aspiring guidance, invaluably constructive criticism and friendly advice during the project work. I am sincerely grateful to them for sharing their truthful and illuminating views on several issues related to the project.

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I express my warm thanks to the Director of our college and the college staff for providing us this opportunity. I would also like to thank my parents for their motivation and support.

Last but not the least I would like to acknowledge my sincere gratitude to the respondents without whom this project would not have been completed.

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# EXECUTIVE SUMMARY

A Study on "Job Satisfaction " was carried out in “Bharat Sanchar Nigam Limited”. The main objective of the research was to find the satisfaction level of employees in the organization.

Employee satisfaction is essential to the success of any business. The important factors that are to be considered in the job satisfaction of employees are salary, promotion, working condition, and so on...

In this study the primary data was collected by means of questionnaire. The secondary data was collected from the company records and websites. A structured questionnaire was given to 100 employees and the data was collected based on the same. The data was analysed using percentage method and. Utmost care has been taken from the beginning of the preparation of the questionnaire till the analysis, findings and suggestions. The analysis leads over to the conclusion that majority of the employees are satisfied. Dissatisfaction with reference to some of the factors was also imported. It was found that dissatisfaction among employees will affect the work performance and productivity of the organization. Valuable suggestions and recommendations are also given to the company for the better prospects.

## RECOMMENDATION OF THE SUPERVISOR

This is to certify that the work entitled **"Job Satisfaction at Bharat Sanchar Nigam Limited (BSNL)"** is the original work done by Shivani, Master of Business Management, H. P. University Regional Centre, Mohli, Khaniyara, Dharamshala under my guidance and supervision. She has devoted herself to the conduct of this work under my guidance and supervision as per the stipulated norms of the Himachal Pradesh University and this work has not been submitted for the award of any degree to any other university.

14/6/2024

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The findings and analysis are original & are true to the best of my knowledge. I bear full responsibility for information given in this report.

Place: Regional centre Khaniyara

Shivani

Name of student: Shivani

# Chapter-1

# INTRODUCTION

# 1.1 - INTRODUCTION

Telecom in India was started by private persons in 1851 as “Public Utility Service”. Subsequently it was taken over by Govt. of India in 1943 as department of Telecommunication, it functions under the communication ministry headed by a cabinet minister. The office is situated at New Delhi, having circle offices in all states in India. The circle office is located at the capital city of every district of all states under supervision of General Manager. It is world’s 7th largest company and India’s No.1 Telecom Company and celebrating 150 years of Telecom Services.

BHARAT SANCHAR NIGAM LIMITED (BSNL) was incorporated on 15th September 2000. It took over the business of providing of telecom services and network management from the erstwhile Central Government Departments of Telecom Services (DTS) and Telecom Operations (DTO), with effect from 1st October' 2000 on going concern basis. The company provides telecom services throughout the country excluding Delhi & Mumbai. BSNL is a 100% Govt. of India owned Public Sector Undertaking with an authorized share capital of Rs. 40,000 crore and paid-up capital of Rs. 12,500 crores comprising of Rs. 5,000 crores of Equity and Rs. 7,500 crores of Preference shares capital. Its total income during FY 2020-21 was Rs.18, 595 crores.

BSNL telecom network therefore, is a part of modern global network, providing access to countries around the world for transporting information in the form of voice, data and video. The company has a vast experience in planning, installation, network integration & maintenance of switches & transmission networks. BSNL has a world class ISO 9000 certified Telecom Training Institute.

## 1.2 - CONCEPTUAL BACKGROUND OF THE TOPIC

Human resource is considered to be the most valuable asset in any organization be it a Telecom industry or any particular company. It is the sum-total of inherent abilities, acquired knowledge and skills represented by the talents and aptitudes of the employed persons who comprise executives, supervisors and the rank-and-file employees. It may be noted here that human resource should be utilized to the maximum possible extent, in order to achieve individual and organizational goals. It is thus the employee's performance, which ultimately decides, and attainment of goals. However, the employee performance is to a large extent, influenced by motivation and job satisfaction

The term relates to the total relationship between an individual and the employer for which he is paid. Satisfaction does mean the simple feeling state accompanying the attainment of any goal; the end state is feeling accompanying the attainment by an impulse of its objective. Job satisfaction does mean absence of motivation at work. Research workers differently described the factors contributing to job satisfaction and job dissatisfaction.

The survey made regarding the job satisfaction in BSNL will facilitate and enables the management to know the perceptions and inner feelings regarding the job they are performing on day-to-day basis. The term job satisfaction reveals and focuses on the likes and dislikes of the employees of BSNL. In this particular study the researchers try to identify the causes for satisfaction and dissatisfaction among the employees. So, this is the most effective and selective instrument for diagnosing and peeping into the employee's problems.

Job satisfaction survey can give the most valuable information the perceptions and causes. For satisfaction/dissatisfaction among the employees' attitude towards job satisfaction may be either positive or negative. This positive feeling can be re-in forced and negative feelings can be rectified. This survey can be treated as the most effective and efficient way, which makes the workers to express their inner and real feelings undoubtedly.

Job satisfaction describes the feelings attitudes or preference of individuals regarding work. It indicates how content an individual is towards his or her work. (Armstrong, 2006) defines job satisfaction as the attitudes and feelings people have about their work. Positive and favourable attitude towards the job indicate job satisfaction, Negative and unfavourable

attitude indicate dissatisfaction.

**Definition**

Job satisfaction refers to a person's feeling of satisfaction on the job, which acts as a motivation to work. It is not the self-satisfaction, happiness or self-contentment but the satisfaction on the job.

Hoppock describes job satisfaction as "any combination of psychological, physiological and environmental circumstances that cause and person truthfully to say I am satisfied with my job.

Job satisfaction is defined as the, "pleasurable emotional state resulting from the appraisal of one's job as achieving of facilitating the achievement of one's job values.

An unhappy employee, however, can cause severe damage to the organizational effectiveness. Performance management system should be based on ideological underpinnings and a holistic context by strengthening the linkages among the key components such as performance planning, performance execution, performance appraisal, recognition and reward, and performance improvement on a continuous basis.

The study on job satisfaction helps to know their preference and problem of the employees. Mainly six factors influenced on the job satisfaction they include payment package, career development, interpersonal relations, inspiration, work circumstances, training and development. When these factors were high Job satisfaction was high in all organizations.

## 1.3 - HISTORY AND PROSPECTIVE OF THE STUDY

Bharat Sanchar Nigam Limited is a government owned telecommunications service provider headquartered in New Delhi, India. It is under the Ownership of Department of Telecommunications, Ministry of Communications, Government of India. It was incorporated on 1 October 2000 by the Government of India. Its top official is designated as Chairman and Managing Director who is a central government civil servant of the Indian Communication Finance Service cadre or a central government engineer of the Indian Telecommunications Service cadre. It provides mobile voice and internet services through its nationwide telecommunications network across India. It is the largest government-owned-wireless telecommunications service provider in India.

Bharat Sanchar Nigam Limited is India's government enterprise and its history can be traced back to the British India. The foundation of telecom network in India was laid by the British sometime during the 19th century. During the British era, the first telegraph line was established between Calcutta and Diamond Harbour in 1850. The British East India Company started using the telegraph in 1851 and till 1854 telegraph lines were laid across the country. In 1854, the telegraph service was opened to the public and the first telegram was sent from Mumbai to Pune. In 1885, the Indian Telegraph Act was passed by the British Imperial Legislative Council. After the bifurcation of Post and Telegraph department in the 1980s, the creation of Department of Telecom eventually led to the emergence of the government owned telegraph and telephone enterprise which led to the foundation of BSNL.

After providing the telegraph services for 160 years, BSNL shut it down completely on 15 July 2013. It began delivering telegrams to the public in February 1858; this service was upgraded to a web-based messaging system in 2010 and had been offered through 182 telegraph offices across India

BSNL is the only service provider, making focused efforts & planned initiatives to bridge the rural-urban digital divide in ICT sector. In fact, there is no telecom operator in the country to beat its reach with its wide network giving services in every nook & corner of the country & operates across India except New Delhi & Mumbai. Whether it is inaccessible areas of Siachen glacier or North-Eastern regions of the country, BSNL serves its customers with a wide bouquet of telecom services namely Wire line, CDMA mobile, GSM mobile, Internet, Broadband, Carrier service, MPLS-VPN, VSAT, VoIP, IN Services, FTTH, etc.

Telecom sector is the industry in the expansion mode and telecom industry in India especially BSNL is going through a process of organizational change. With this emphasis on the change. There is a lot expectation from the employees and redesigning of the jobs. In this context I felt that there is a need for scientific study on the job satisfaction of telecom employees in BSNL.

The present study investigates that the factors affecting Job Satisfaction with special reference to BSNL. Job satisfaction is the favourableness or unfavourableness with which employees view their work. It results when there is congruence between job requirements and wants and expectations of employees. It expresses the extent of match between the employee's expectations of the job and the rewards that the job provides. To examine the level of Training and Development associated with Job Satisfaction using by Job Descriptive Index (JDI) Scale among BSNL employees. The JDI scale included Work, Supervision, Pay, Promotions, and Co-worker.

# Chapter-2

# REVIEW OF LITERATURE

## 2.1 - REVIEW OF LITERATURE

**R Gopinath (2021),** in his study he examines the level of Appraisal and Reward associated with Job Satisfaction using by Job Descriptive Index (JDI) Scale among BSNL employees. The JDI scale included Work, Supervision, Pay, Promotions, and Co-worker. Job Satisfaction Employees would make a positive contribution to their respective BSNL and may lead to increase the effectiveness of the BSNL. It is therefore important to have a good understanding of an individual's total personality and value system in order to understand and describe his job satisfaction. Some important implications for future research are also derived from the study.

**Rashid (2014)**, in his study found that factors such as promotion, pay, fairness and working condition are key constituents that contribute to employee's job satisfaction. The study was conducted on 200 telecom sector employees concluded that money and Payment play an important role in the job satisfaction of the telecom employees of.

**Gopinath *et al.,* (2014)** examined the level of promotion and transfer related to job satisfaction among BSNL employees using Job Descriptive Index (JDI) Scale. The JDI scale included pay, promotions, supervision, work and co-worker. The results demonstrated that promotion and transfer process are important praxis for human resource development and are crucial in affecting the success of an organization. The analysis further proves that promotion and transfer highly influence job satisfaction of employees in BSNL. So, the 45 % employees are having job satisfaction in high level and 55 % employees having job satisfaction in moderate level.

**Himani et. al., (2013)** states that the Job satisfaction followed by job security, salary and benefits and training. Secure job environment enhances the degree of job satisfaction. Management must create an environment of job security among employees Apart from job security, management must provide job stability. There should be a challenging environment. The job should provide enough scope for the employees in terms of promotion and transfer

**Gurusamy *et al.,* (2013)**, in their scrutiny established the fact that Salary occupies the First position in the determination job satisfaction when compared with other major determinants. About 300 respondents were studied and the study is limited to automobile industries of India

**Jahirul Hoque *et al.,* (2012)** concludes that the determinants of job satisfaction such as job status, salary fringe benefits, job security, promotional opportunities, working environment, job autonomy, recognition for good work, co-workers, and supervising have been assigned by both the level of executives, junior and top level as the major determinants of their respective job satisfaction. It is also revealed that each of their determinants has significant positive relation with the overall job satisfaction of the executives. Therefore, increase in values/standard of each of these determinants would definitely increase the level of job satisfaction of the selected executives.

**Ekaterini Galanou, (2011)** focuses on the primary purpose of performance appraisal as to prepare useful feedback to individuals so that they could enhance their performance. There are eight appropriate methods suggested: Personal improving plan, Personal appraisal, 360-degree appraisal, self-appraisal, Coaching, Competence assessment, objective setting, performance related to pay.

**Maurer *et al.,* (2008)** states that the support from employer for the personal development of the employee is a Human Resource function that aids in changing employee behaviour and further it leads to employees' positive response as being occupied and pledged.

**Markham *et al.,* (2008)** studied The Effect of Biographical Variables on the Job Satisfaction of a Group Human Resource Management Employees working in a Municipality" in this study, result indicated that employees are uncertain about the following job satisfaction components: company policies and practices, remuneration, promotion, security, acknowledge for good performance, status, supervisor skills, working conditions, equipment and facilities. Coloured and black employees in particular were found to be less satisfied on the way their bosses handled personnel matters.

# CHAPTER 3 - RESEARCH METHODOLOGY

The data needed for the study is collected from the employees, through questionnaires. Analysis and interpretation have been done by using the statistical tools and data presented through tables and charts.

## 3.1 - RESEARCH DESIGN:

"A Research Design is the arrangement of conditions for the collection and analysis of data in a manner that aims to combine relevance to the research purpose with economy in position" the research design is the conceptual structure within which research is conducted; it contains the blueprint for the collection and analysis of data".

The purpose of the methodology is to design the research procedure. This includes the overall design, the sampling procedure, the data collection method and analysis procedure. Marking research is the systematic gathering recoding and analyzing of data about problem retaining to the marketing of goods and services. The essential purpose of marketing research is to provide information, which will facilitate the identification of an opportunity of problem situation and to assist manager in arriving at the best possible decisions when such situations are encountered.

Basically, there are two types of researches, which according to their applicability, strength, weaknesses, and requirements used before selecting proper type of research, their suitability must be seen with respect to a specific problem two general types of researches are exploratory and conclusive.

### 3.1.1: Exploratory Research Design:

It is also known as qualitative research; it seeks to discover new relationships it aims a defining the main problem & inducing the identification of the relevant variables and the possible alternative solutions it can further be divided in to three parts.

### 3.1.2: Conclusive Research:

It is also known as quantitative research; it is designed to help executives of action that is to make decision.

Conclusive research provides information, which helps the executives make a rational decision. In some instances, particularly if any experiment is run, the research may come close to specifying the precise alternatives to choose, in their cases especially with descriptive studies the research will only particularly clarify the situation and much will be left to the executive's judgement.

The type of research here is "Descriptive Research Design". This kind of design is used for more precise investigation or of developing the working hypotheses from an operational point of view. It has inbuilt flexibility, which is needed because the research problem, broadly defined initially, is transformed into one with more precise meaning in exploratory studies, which in fact may necessitate changes in research procedure for gathering relevant data.

## 3.2 - NEED OF THE STUDY

First, it is a primary responsibility of organizations to ascertain that employees are satisfied with their jobs through measurements, but also to find out the causes of dissatisfaction when employees are not feeling satisfied:

Job satisfaction is needed at BSNL because of the following reasons,

- To increase productivity of the Employees
- To Increase customer satisfaction
- Job satisfaction is needed so that the employer turnover can be reduced.
- Reduce recurring and training cost.
- Enhance customer satisfaction and loyalty
- It is needed so that the employees can feel energetic while working
- It is also needed to improve the teamwork
- Higher quality products and or services due to more competent, energized employees.

## 3.3 - SCOPE OF THE STUDY

In the survey an attempt has been made to analyse the job satisfaction of employees of BSNL. Job satisfaction of the employees has been analyzed on the basis of the following seventeen job related factors.

- Salary and monetary benefits
- Job security
- Promotion policy
- Working environment
- Employees participation in management
- Freedom of expressions
- Nature of job
- Interest taken by superiors
- Superiors and sub-ordinate relationship
- Medicare
- Loans
- Conveyance
- L.T.C.

## 3.4 - OBJECTIVES

The main aim of the study is to analyse and examine level of job satisfaction among the BSNL employees and to know the problems faced by the employees of the various categories. The specific objectives are as follows:

- To study the level of satisfaction among of employees relating to the nature of the job and other factors.
- To examine satisfaction among employees regarding the salary and other benefits of its employees.
- To suggest suitable measures to improve the overall satisfaction of the employees in the organization.

## 3.5 –SAMPLING DESIGN:

A sample design is a definite plan for obtaining a sample from a given population. The sampling method used for the project was “Convenient sampling” (also known as grab sampling, accidental sampling, or opportunity sampling) is a type of non-probability sampling that involves the sample being drawn from that part of the population that is close to hand.

**SAMPLE SIZE:**

Sample for the study include employees of BSNL in distt. Kangra. Employees working in the offices of BSNL located at Dharamshala, Kangra, Palampur and Jassur were approached to get the data filed. Questionnaires were distributed to the employees working in these offices. The sample size of this study was 100 respondents but only 73 respondents reverted back with fully filled questionnaires which were used for further analysis.

# 3.6 - COLLECTION OF DATA

**SOURCE OF INFORMATION:**

Basically, the source of the information for this project was taken from the employees of BSNL

Executives and non-executives both type of employees

**METHODS USED FOR DATA COLLECTION:**

Data collected for the study consists of both primary and secondary data.

**3.6.1: PRIMARY DATA:**

The primary data is collected by approaching the individuals with a Questionnaire and was filled after making them understand the use of the information. This was done to make sure that the information provided is true and unbiased. And close ended questions are used while conducting the survey. The Techniques which I used to collect these data are as follows: -

- Survey
- Questionnaire

**QUESTIONNAIRE:**

In this research study the researcher used a questionnaire consisting of twenty multiple choice-based questions. Primary data were collected through questionnaire. The questionnaire was administered to 100 employees of BSNL from which 73 were received back in fully filed form.

**3.6.2: SECONDARY DATA:**

Secondary data for this study was collected from previously published records, statistics, research reports and documents, Books, Periodical and websites.

### 3.6.3: GRAPHICAL REPRESENTATION OF DATA:

Graphical Representation tool such as Bar Graphs and Pie Charts have been used for the data Analysis.

## 3.7 -TOOLS USED FOR ANALYSIS

- The data from various individuals is presented in the form of frequency distribution table.
- The collected data is further converted into percentage
- It is presented in the form of pie charts and tables.
- The pie charts and tables help to present information about tens or hundreds of individuals efficiently and with significant visual appeal, making the results more easily understandable and thus more attractive to the users of the produced information.

# CHAPTER – 4

# DATA ANALYSIS

# AND

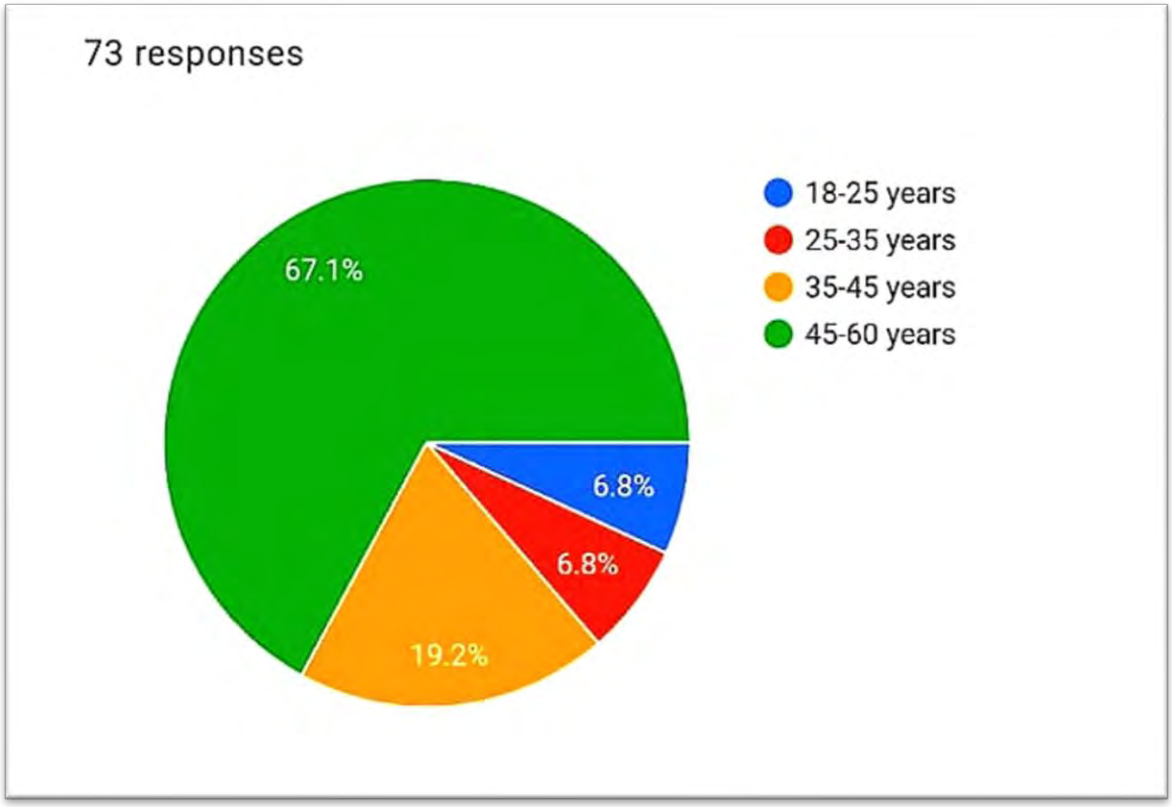
# INTERPRETATION

1. **To know the age group of the respondent?**

**Table 4.1: Age Group respondents**

| AGE GROUP RESPODENTS | |
|---|---|
| **Age** | **No. Of respondents** |
| **18 - 25 years** | 5 |
| **25 – 35 years** | 6 |
| **35 – 45 years** | 14 |
| **45 – 60 years** | 48 |

**Figure 4.1: Age Group**



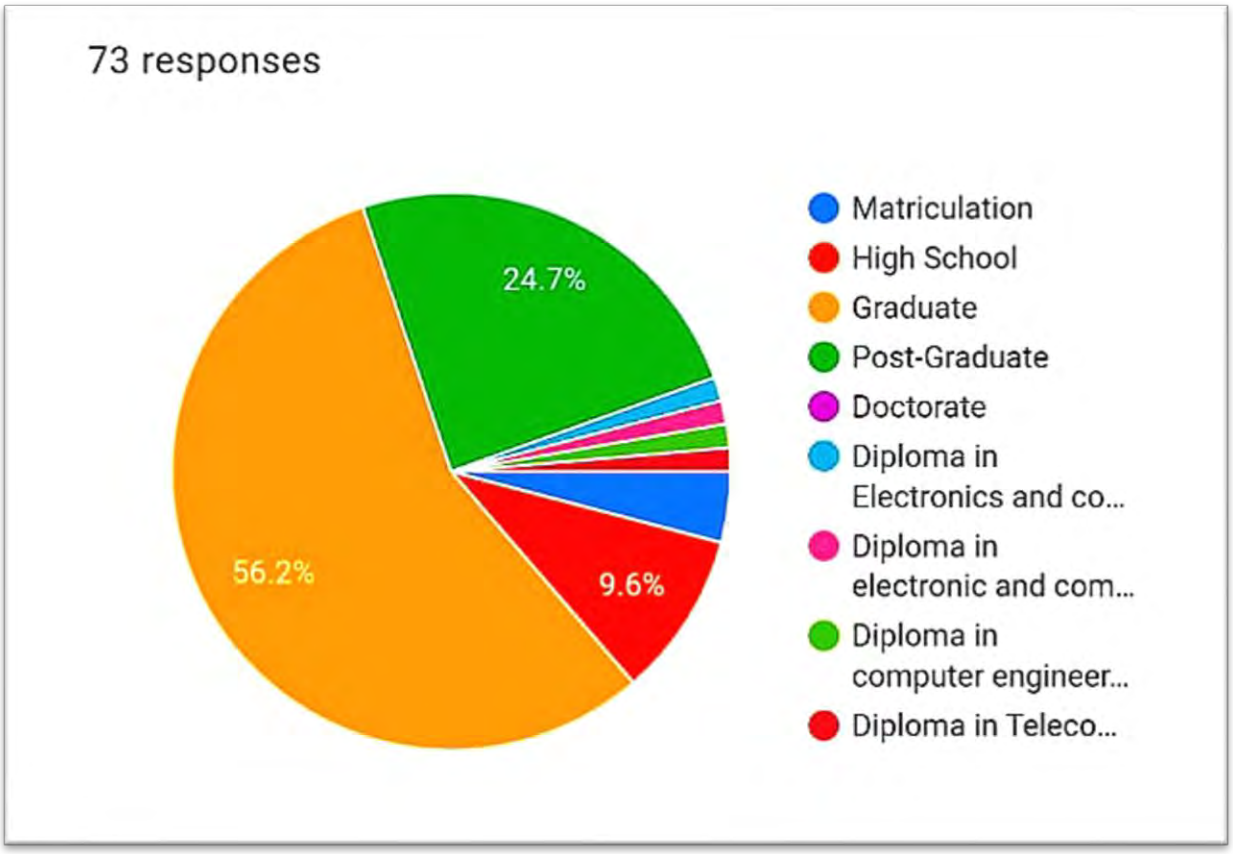

The above diagram shows the percentage in the age of employees. As it shows that from the number of employees are 6.8% in age group of 18 – 25 and 6.8% in the age group 25 – 35. It is 19.2% in the age group 35 – 45 and 45 – 60 above is 67.1%

2. **To know about the educational qualifications of the respondents**

**Table 4.2: Qualifications of the respondents**

| QUALIFICATIONS OF THE RESPONDENTS | |
|---|---|
| **Education** | **No. of respondents** |
| **Matriculation** | 20 |
| **High School** | 7 |
| **Graduate** | 25 |
| **Post – Graduate** | 17 |
| **Others** | 4 |

**Figure 4.2: Respondents Educational Qualifications**



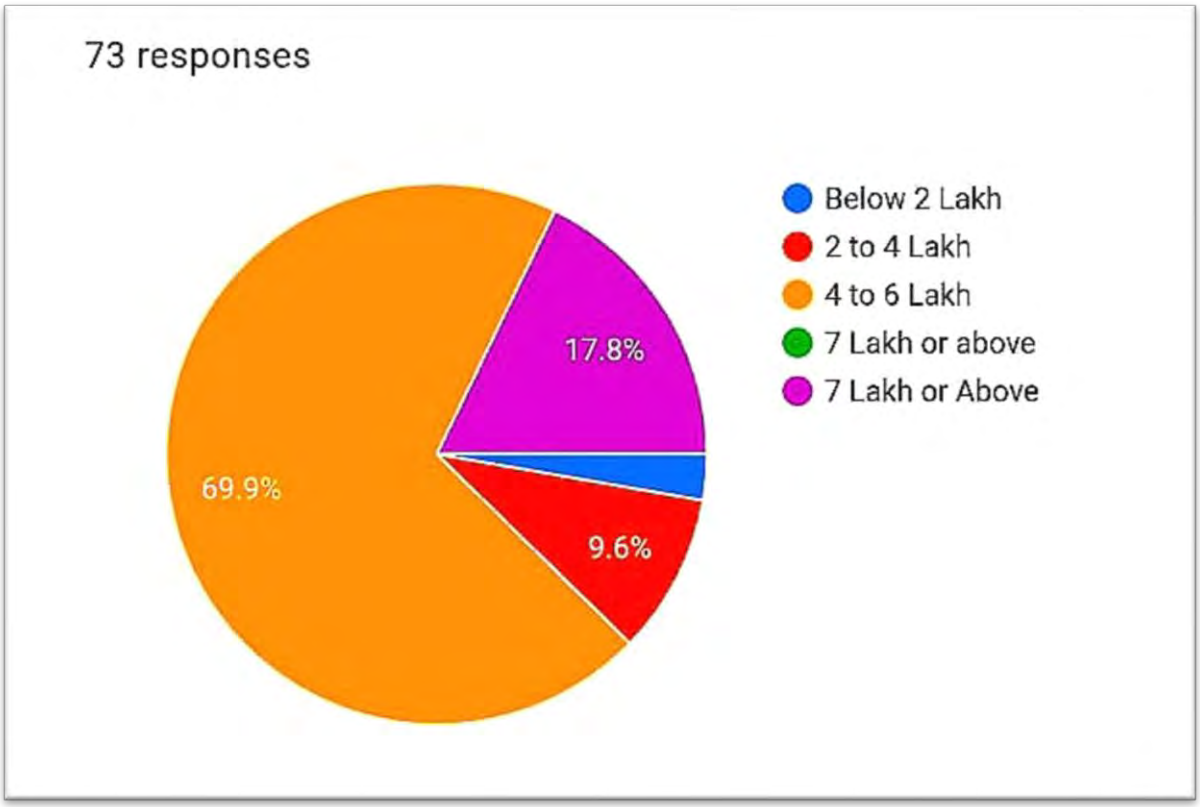

This Chart shows the percentage in the educational qualifications of the employees. As it is shown 4.1% (blue) of the employees have done Matriculation. 9.6% of employees done the High school only and 56.2 % of employees are Graduate. 24.7% of employees are Post Graduate and the remaining 5.6 % of employees have Diplomas in other studies. This shows majority of employees are Graduate

3. **To know the annual income of the respondents?**

**Table 4.3: Annual Income of The Respondents**

| ANNUAL INCOME OF THE RESPONDENTS | |
|---|---|
| **Income** | No. of respondents |
| **Below 2 Lakh** | 2 |
| **2 – 4 Lakh** | 7 |
| **4 – 6 Lakh** | 51 |
| **7 Lakh or above** | 13 |

**Figure 4.3: Respondents Income**



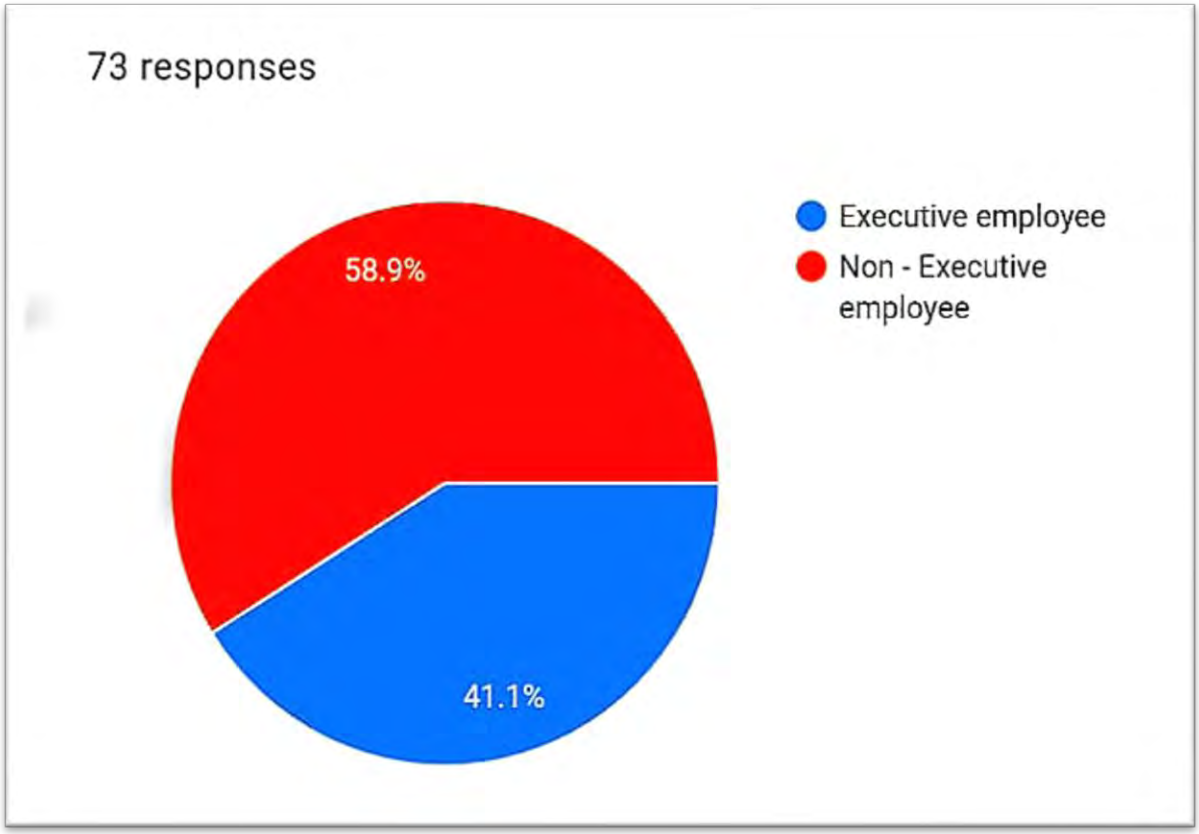

The above pie chart shows the percentage of the income per annum of the respondents. It shows that 2.7% of employees were having below 2 Lakh. income 9.6% of the employees are having income between 2 – 4 lakh per annum while 69.9% of the employees were having income between 4 – 6 Lakh per annum. 17.8% of the employees were having income above 7 lakhs per annum.

4. **To know about the designation of the employees**

**Table 4.4: Employees Designation**

| Employees Designation | |
|---|---|
| **Executives** | 30 |
| **Non-Executives** | 43 |

**Figure 4.4: Employees Designation**



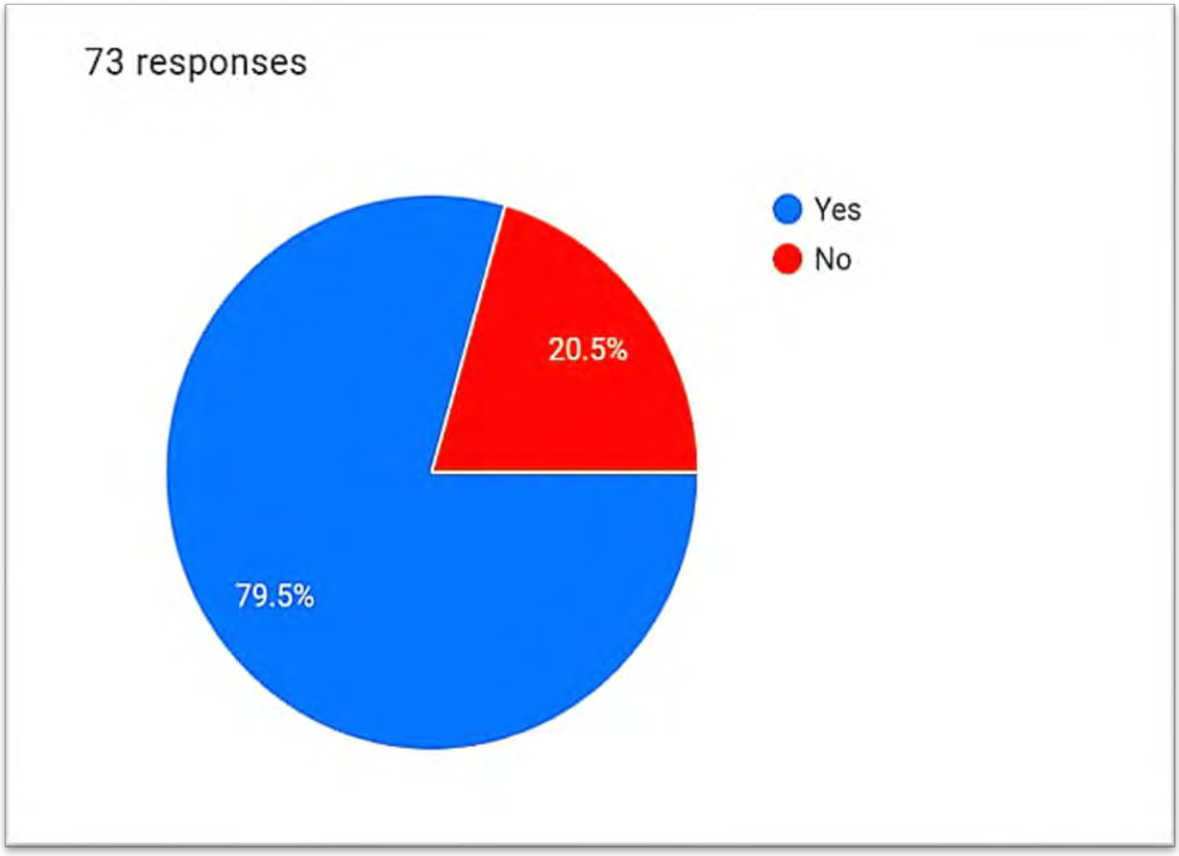

This Chart shows the designation of the Employees whether they are Executives or Non-Executives. As it is shown in the chart 58.9 % employees are Non – Executives and 41.1 % employees are Executives

5. **To know the satisfaction of employees towards the salary.**

**Table 4.5: Employees Satisfaction Towards Salary**

| Satisfaction Of Employees Towards Salary | No. Of Respondents |
|---|---|
| **Yes** | 58 |
| **No** | 15 |

**Figure 4.5: Satisfaction Of Employees Towards Salary**



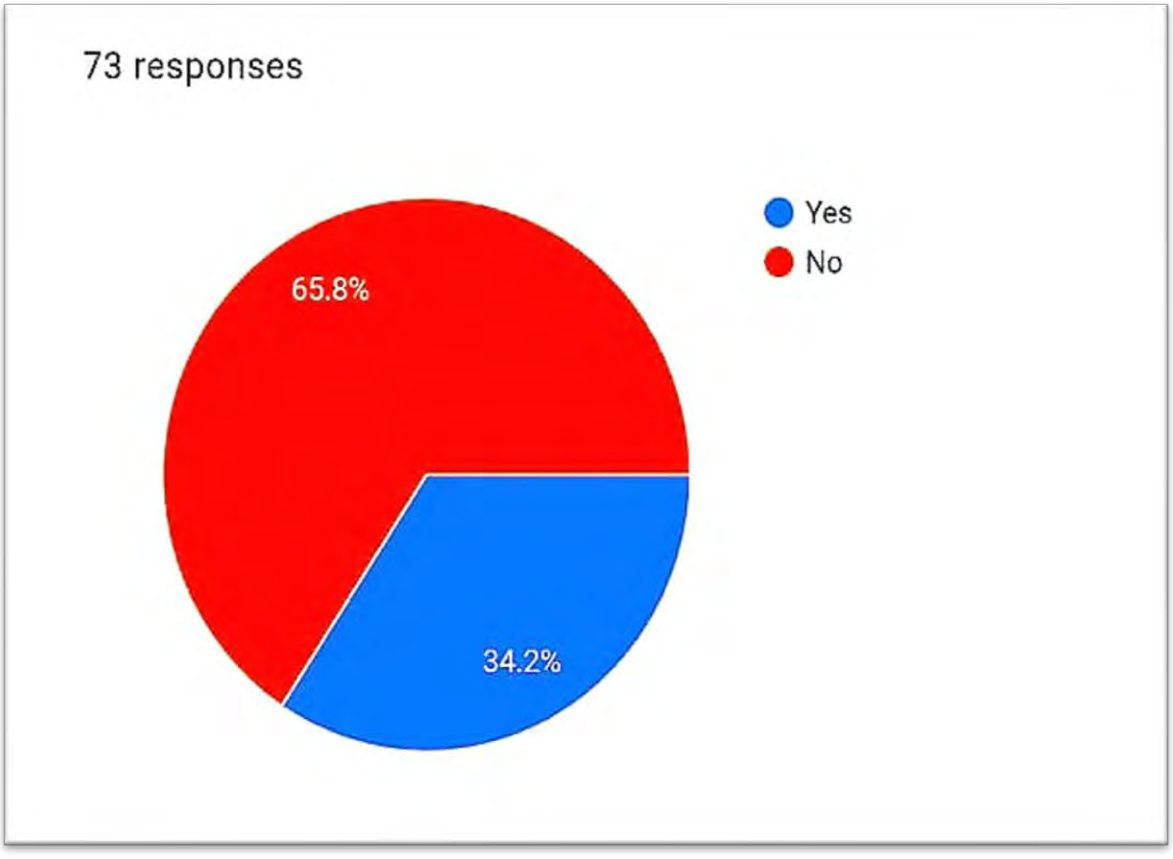

This pie chart shows the response of the employees towards salary satisfaction. As it shows 79.5% of employees are satisfied with their salary while 20.5% of employees are not satisfied with the salary paid by BSNL It is clearly seen that majority is satisfied with the salary.

6. **To know that the employees get any incentives for efficient work in the organization?**

**Table 4.6: Get Incentives for Efficient Work**

| Employees Get Incentives For Efficient Work | No. Of Respondents |
|---|---|
| **Yes** | 25 |
| **No** | 48 |

**Figure 4.6: Employees Incentive**



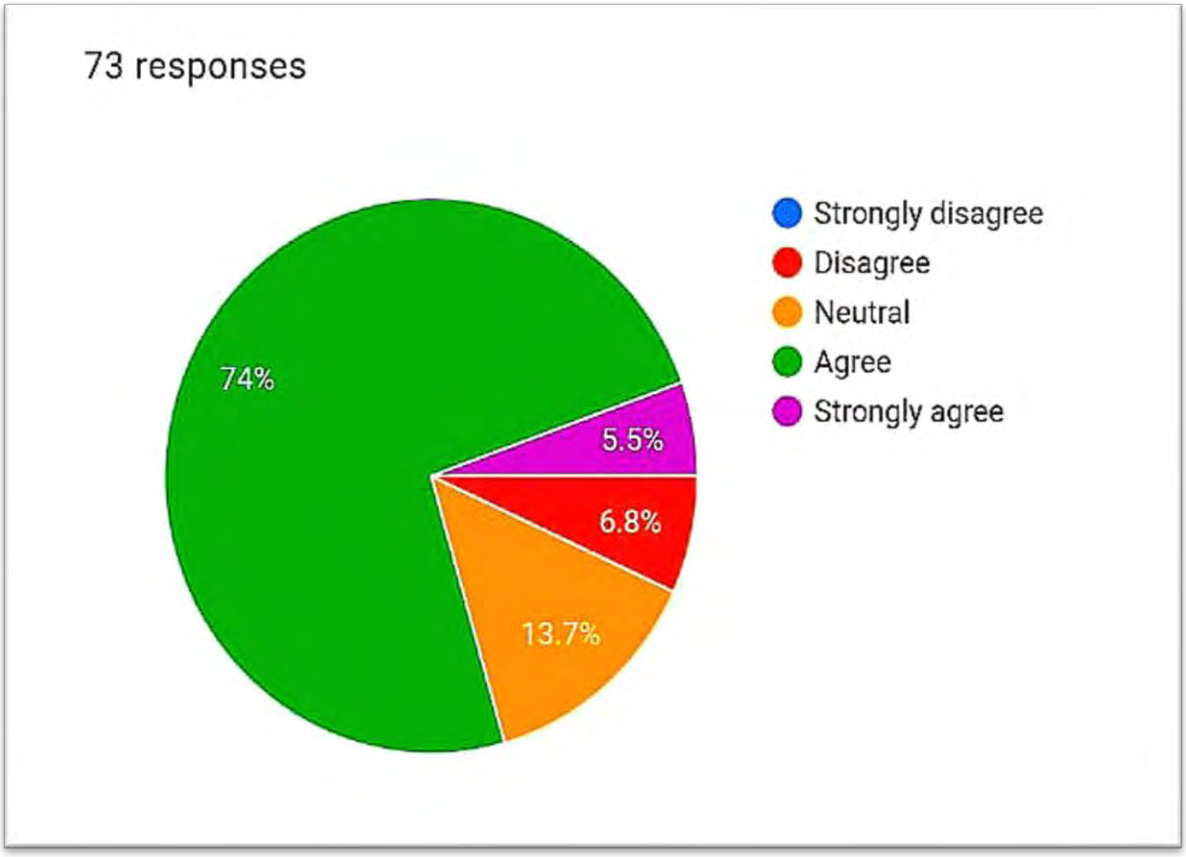

The above diagram shows the response of employees towards incentives . As it is shown there 65.8 % of employees don't get any incentives while 35.2% employees get the incentives.

7. **Management is helpful & sympathetic to the problems at workplace.**

**Table 4.7: Helpful And Sympathetic Management**

| Helpful and Sympathetic Management | |
|---|---|
| **Level of satisfaction** | **No. of respondents** |
| **Strongly Disagree** | 0 |
| **Disagree** | 5 |
| **Neutral** | 10 |
| **Agree** | 54 |
| **Strongly Agree** | 4 |

**Figure 4.7: Employees Satisfaction**



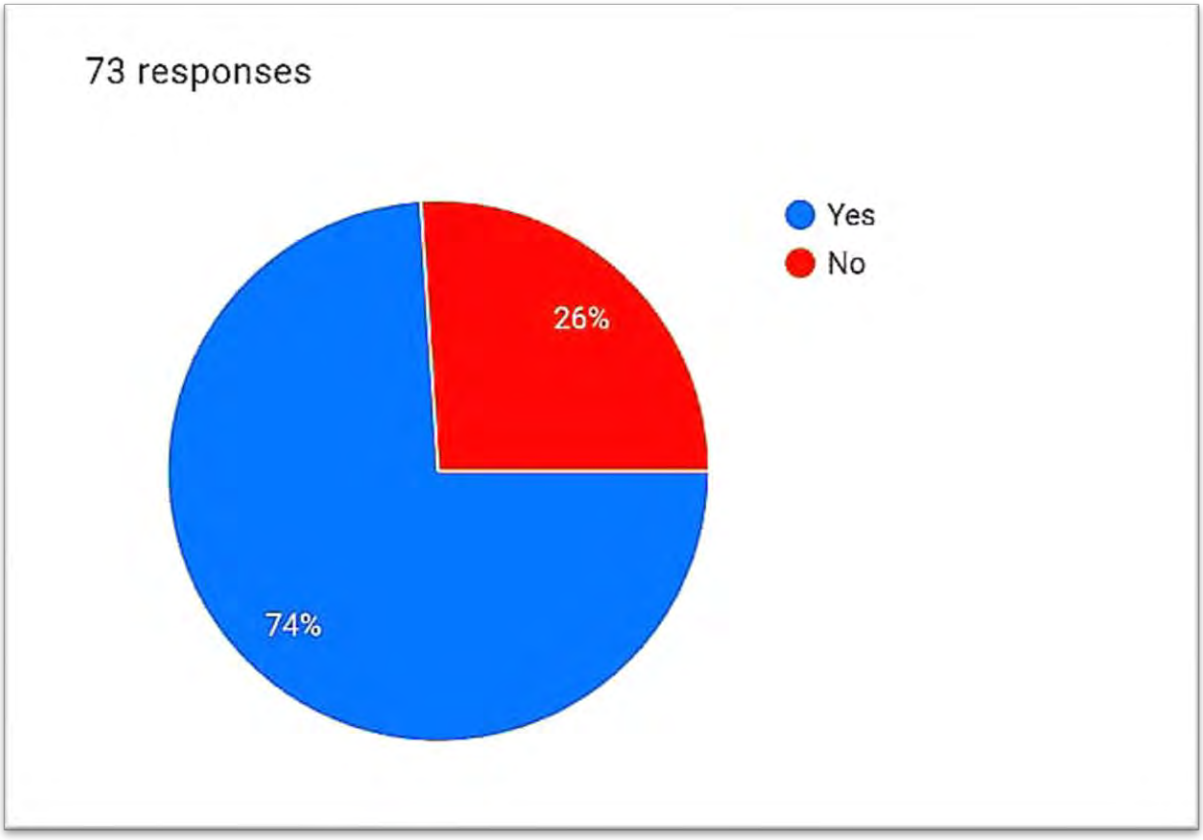

The above graph gives information about the responses of employees towards a statement which is "Management is helpful & sympathetic to the problems at workplace" . 6.8% of employees Disagree with the statement whereas 13.7% of employees opted Neutral and 74% of employees Agree with this statement while 5.5 % of employees Strongly Disagree with the statement.

8. **To know that the employees are satisfied with facilities provided by the organization**

**Table 4.8: Facilities Provided by The Organization**

| Satisfaction from the facilities provided by the organization | No. of Respondents |
|---|---|
| **Yes** | 54 |
| **No** | 19 |

**Figure 4.8: Facilities provided by the organisation**



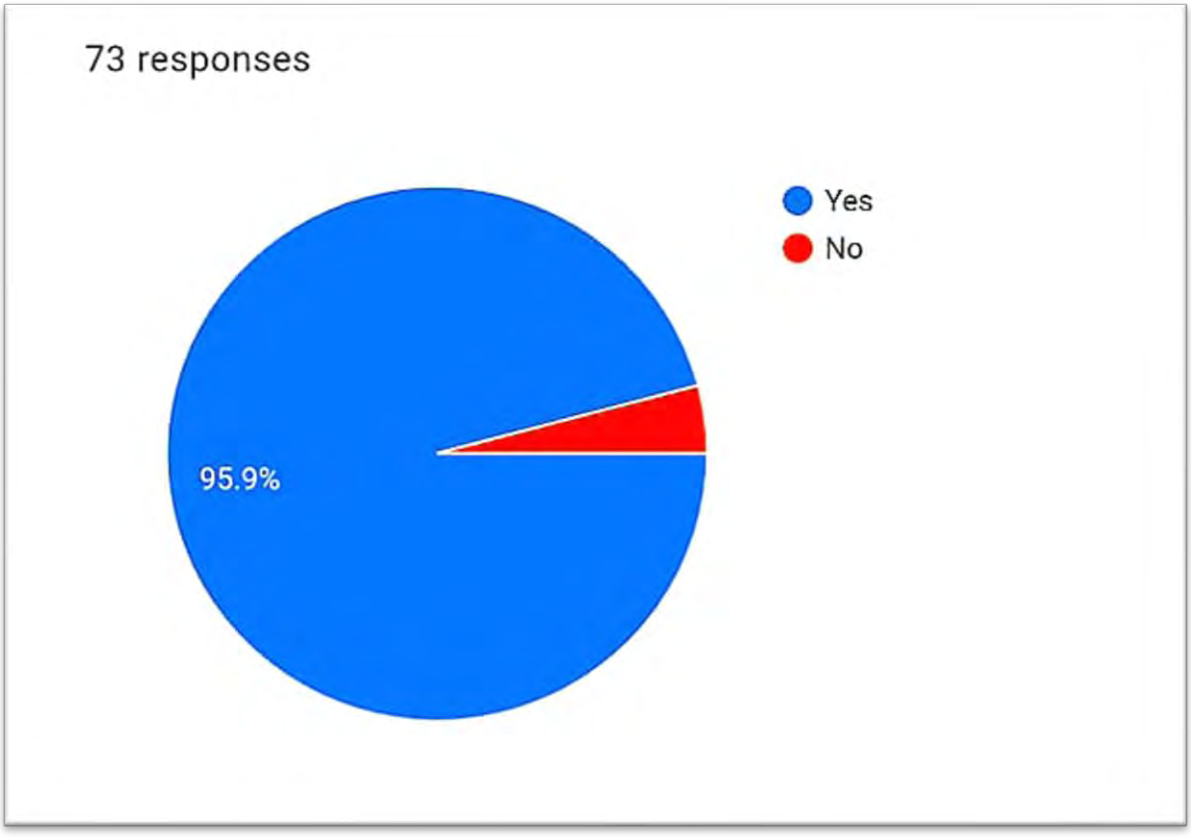

Here the diagram shows the response of employees towards the facility provided by the company . As it is shown here 74% of employees are satisfied with the facilities while 26% of employees are not satisfied with the facilities provided by the organization. It shows most of the employees are satisfied with the facilities provided by the BSNL.

9. **To know if the supervisors clear the doubts of employees & helps in improving the performance of the employees**

**Table 4.9: Employees Performance Improving by Supervisors**

| Employees Performance Improving By supervisors | No. Of Respondents |
|---|---|
| **Yes** | 70 |
| **No** | 3 |

**Figure 4.9: Employees Performance Improving by Supervisors**



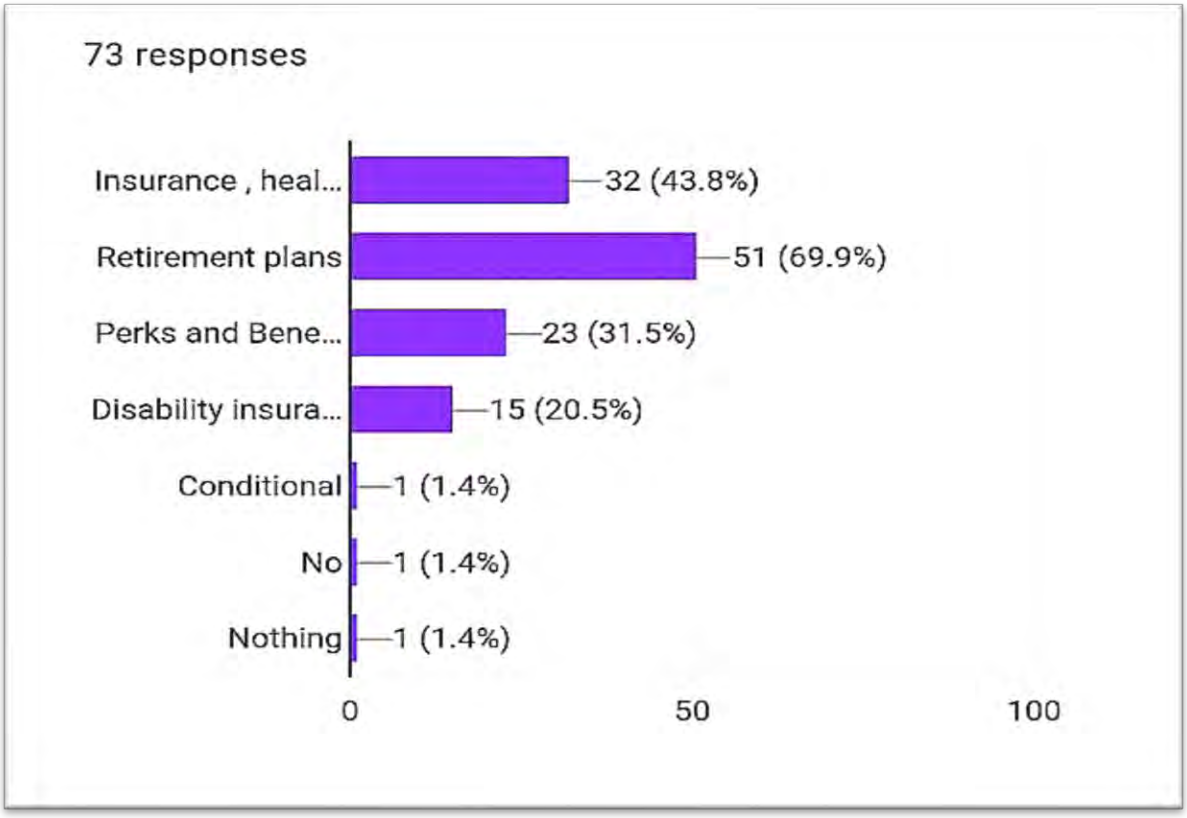

This graph shows the responses of employees towards their supervisor help, to know whether the supervisor helps them to improve their performance. It is shown here that 95.9% of employees says yes while 4.1% of employees says No. So, it is clear that majority of employees who chooses yes gets proper helps from their supervisors.

**10. To know the type of financial benefits they get in organization**

**Table 4.10: Financial Benefits**

| FINANCIAL BENEFITS | |
|---|---|
| **Benefits** | No. of respondents |
| **Insurance, Health and wellness** | 32 |
| **Retirement plans** | 51 |
| **Perks & Benefits** | 23 |
| **Disability insurance** | 15 |
| **Others** | 3 |

**Figure 4.10: Financial Benefits**



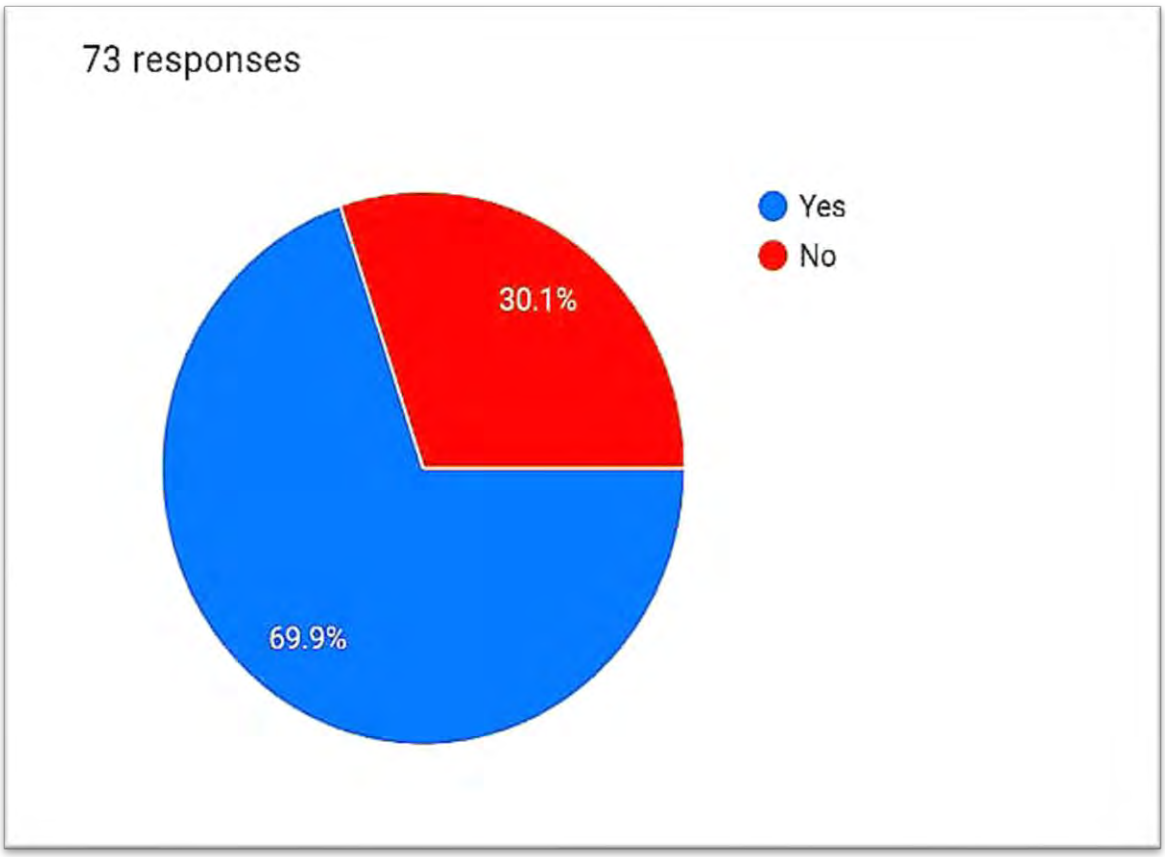

This bar graph here shows the response of employees towards the different types of financial benefits. Here, 43.8% of employees have insurance, health and wellness benefit, 69.9% of employees have Retirement plans, 31.5% of employees have perks & benefits, 15% owns disability insurance and remaining 4.2% don't have any financial benefits. Majority gets the retirement plans.

**11. To know that what employees think about the company policies protecting their interests**

**Table 4.11: Company Policies Protecting Employees Interests**

| COMPANY POLICIES PROTECTING EMPLOYEES' INTERESTS | NO. OF RESPONDENTS |
|---|---|
| **Yes** | 51 |
| **No** | 22 |

**Figure 4.11: COMPANY POLICIES CHART**



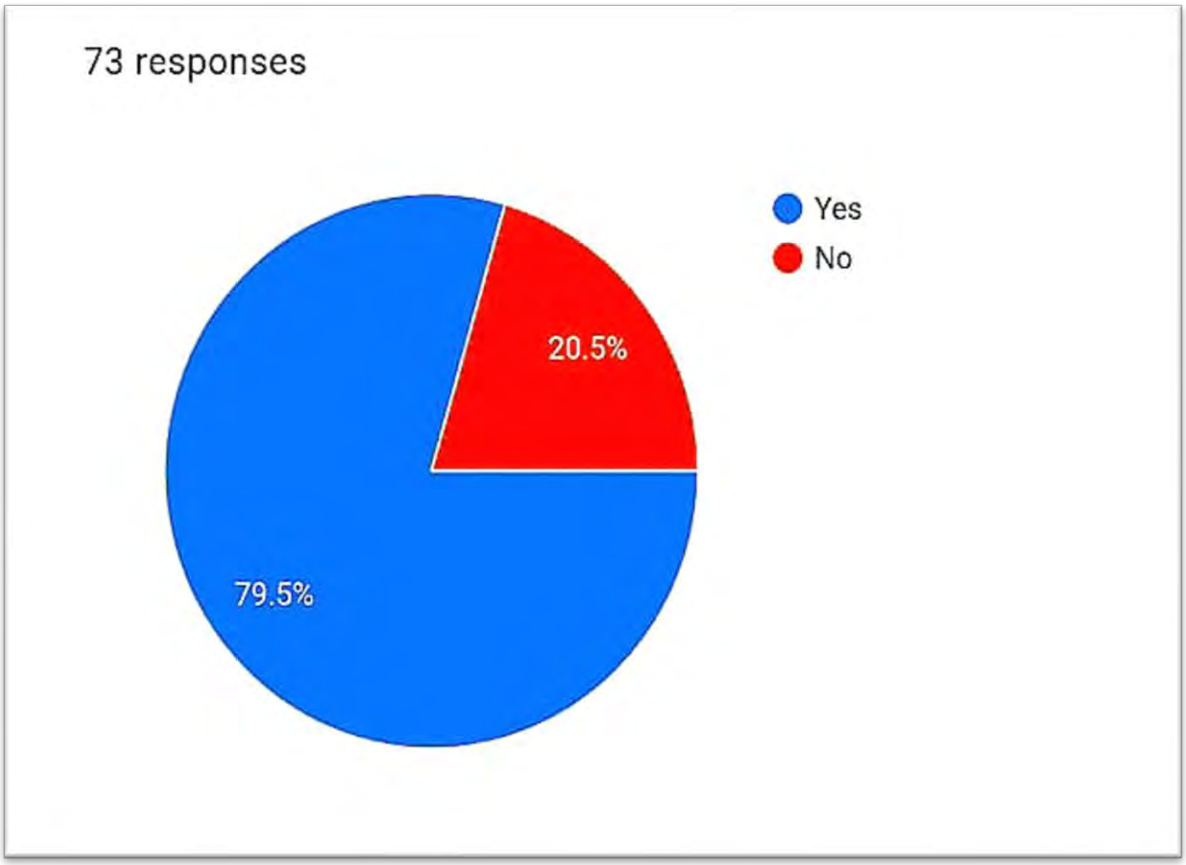

The chart gives us information about the responses of employees towards the company policies protecting their interests. It is shown here that 69.9% of employees chooses Yes, they feel that their interests are protected by the company policies while 30.1% of employees chooses No which shows their dissatisfaction among the company policies.

**12. To know whether they feel that company policies should be changed**

**Table 4.12: Company Change Their Policies**

| SHOULD COMPANY CHANGE THEIR POLICIES | NO. OF RESPONDENTS |
|---|---|
| **Yes** | 58 |
| **No** | 15 |

**Figure 4.12: should be changed company's policies**



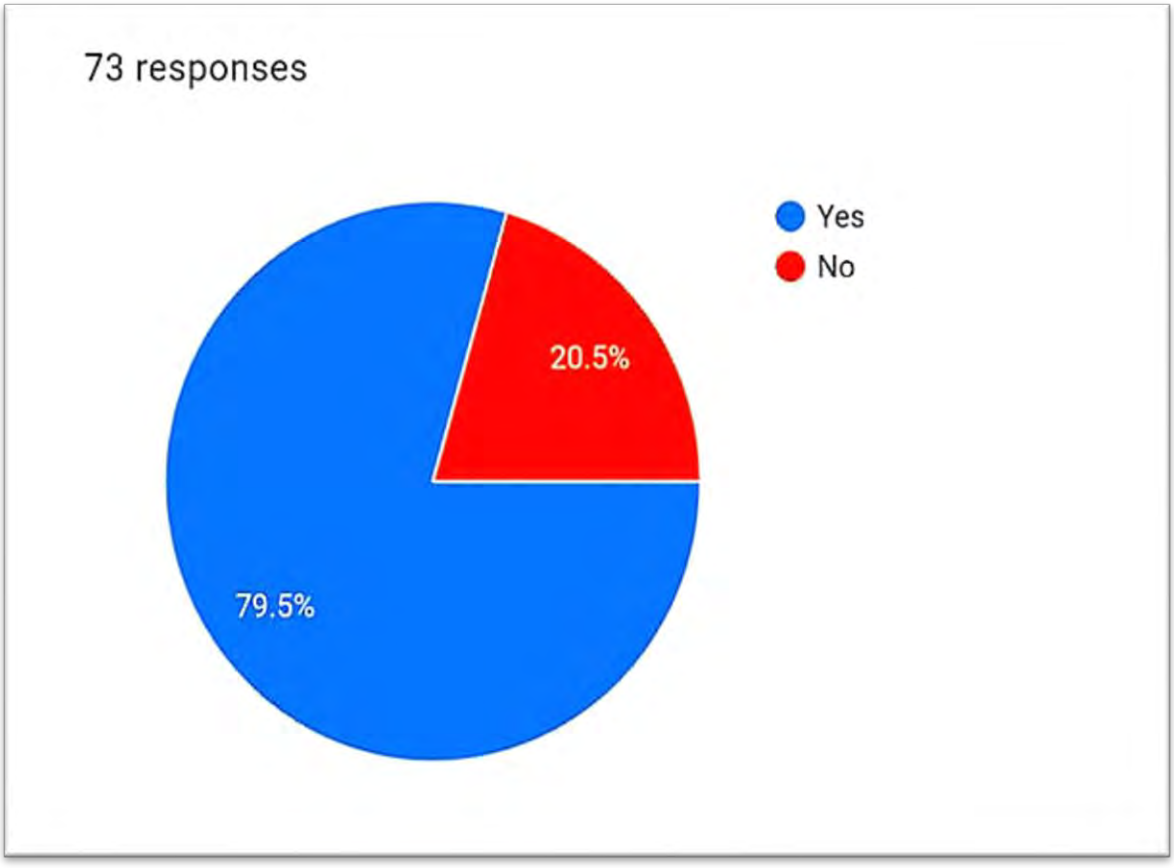

This pie chart gives us information about the responses of employees towards the company's policy whether it should be changed. It is shown here 79.5% of employees chose Yes while 20.5 % of employees chose No, which shows that majority of employees wants to change the company policies and dissatisfaction can be seen.

**13. It tells us about the employees' satisfaction towards training**

**Table 4.13: Employees Satisfied with Training**

| SATISFIED EMPLOYEES WITH TRAINING | NO. OF RESPONDENT |
|---|---|
| **Yes** | 58 |
| **No** | 15 |

**Figure 4.13: Employees Satisfaction Towards Training**




This chart shows the response of people towards the satisfaction of the trainings provided by the BSNL. As it shows 79.5% of employees are satisfied with the trainings while 20.5 % of employees are not satisfied with the trainings.

**14. To know what the employees think about working environment.**

**Table 4.14: Working Environment**

| WORKING ENVIRONMENT | NO. OF RESPONDENTS |
|---|---|
| **Very Bad** | 0 |
| **Bad** | 4 |
| **Average** | 14 |
| **Good** | 48 |
| **Excellent** | 7 |

**Figure 4.14: Working Environment in The Organisation**



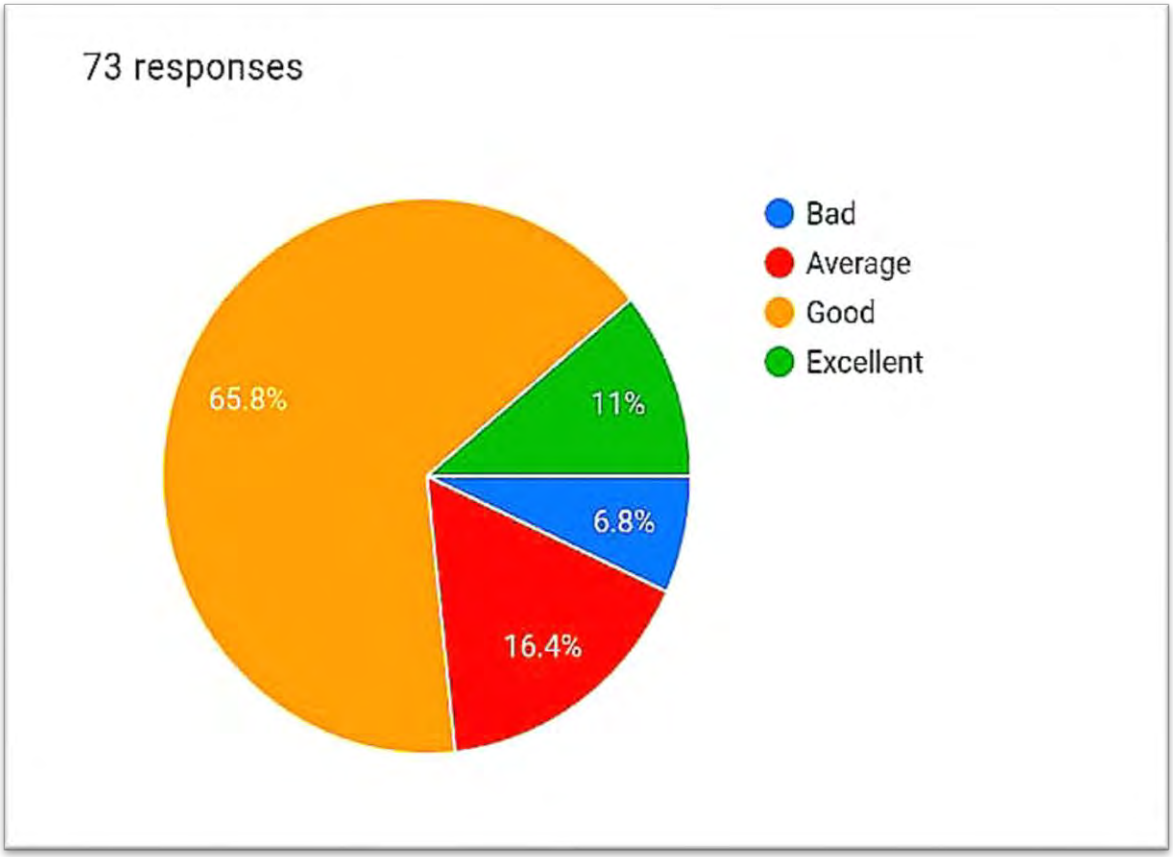

This chart shows the response of employees towards the working environment of the BSNL. It is shown here that 4 out of 73 employees thinks that working environment is Bad, 14 out of 73 employees think it is Average while 48 out of 73 thinks it is good and 7 out of 73 employees thinks the working environment is Excellent. It can be seen that majority of employees are satisfied with the working environment.

**15. To know about what they feel about the Job security**

**Table 4.15: Feeling About Job Security**

| JOB SECURITY FEELING | No. OF RESPONDENTS |
|---|---|
| **Very Bad** | 0 |
| **Bad** | 5 |
| **Average** | 20 |
| **Good** | 40 |
| **Excellent** | 8 |

**Figure 4.15: Feeling About Job Security**




This chart shows the response of employees towards the Job Security. It is shown here that 6.8% employees thinks that Job security is Bad, 16.4% employees think it is Average while 65.8% thinks it is good and 16.4% employees thinks the working environment is Excellent. It can be seen that majority of employees feels secure about their Job.

# Chapter-5

# FINDINGS CONCLUSION LIMITATIONS AND SUGGESTIONS

## 5.1 - FINDINGS

- Majority of employees at BSNL are in the age group between 45 - 60.
- Most of the executives have annual income above 6 Lakh where as non-executives' annual income is below 6 Lakh.
- 79.5% of employees are satisfied with salary.
- 74% of the employees feel that the management is sympathetic to their problems faced at workstation.
- Management shares a very good relation with the workers.
- Management shares a very good relation with the workers.
- Majority of Employees are satisfied with the facilities provided to them and are free to express their views freely to the management.
- 95.9% feels that supervisors are always ready to clear the doubts and help in improving their performance.
- Majority of employees gets the retirement plans**.**
- 69.9% of employees chooses feel that their interests are protected by the company policies while 30.1% of employees have dissatisfaction among the company policies.
- 79.5% of employees feel that company policies should be changed.
- 65.8% of employees feel secure about their Job.
- Some of the employees wants Government help for spectrum Allotment.
- Some of the employees feels that organization is not employee friendly.

## 5.2 - CONCLUSION

The study highlights the Job satisfaction of employees in the study unit. Bharat Sanchar Nigam Ltd is well organized in many aspects. However, the study reveals that the most of the employees feels that their company policies should be changed and some of the employees are not satisfied with financial benefits which will create job dissatisfaction

Job dissatisfaction creates a lack of will to work and forces the employee to go away from work as far as possible. It is also found that an unhappy worker quit the job over time and seeks satisfaction elsewhere. Therefore, the organization should take necessary measure to enhance job satisfaction of employees to achieve the organization goals.

Overall, the employees of BSNL are having a very high job satisfaction and hence they are working with great enthusiasm and zeal to achieve their organization’s goal.

## 5.3 - LIMITATIONS

- I’ve only searched a few numbers of journals because of time Limitation. This may leave some other prominent empirical studies out.
- This research is done in various Branches of BSNL in Kangra. So, the study is not vast and we didn’t get the proper result.
- And sometimes people didn’t give answers and there is always biasness.

## 5.4 - SUGGESTIONS

- 79.5% of the employees feel that company policies should be changed
- Employees should be given proper incentives for efficient work whether he/she is executives or non-executives
- Financial benefits should also be given to the employees
- The management should be more helpful and sympathetic towards the problems faced by the workers at the workstation.
- Good working environment should be given to both whether they are Non-Executives or Executives
- 34.8% of Employees do not feel secure about their Job which needs improvement

# REFERENCES

# AND

# ANNEXURE

# 6.1 – REFERENCES


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# 6.2 – ANNEXURE

## QUESTIONNAIRE

### A. Profile of the employee

a) Name of the Employee*

b) Age*

18 – 25
25 – 35
35 – 45
45 – 60

c) Educational qualifications*

- Matriculation
- High School
- Graduate
- Post-Graduate
- Doctorate
- Other

d) Annual Income*

- Below 2 Lakh
- 2 to 4 Lakh
- 4 to 6 Lakh
- 7 Lakh or above

e) Designation*

- Executive employee
- Non - Executive employee
- Other:

f) Are you satisfied with the salary paid to you?

- Yes
- No

## B. Personal problems and employee benefits

a) Do you have any incentive scheme for efficient work in your organization?

- Yes
- No

b) Are you satisfied with the present working conditions and environment?

- Yes
- No
- Somewhat satisfied

## C. Inter-Personal problems

a) Management is helpful & sympathetic to the problems at workplace.

- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree

b) Do you express your views freely with the employers or vice - versa?

- Yes
- No
- Sometimes

c) Are you satisfied with facilities being provided by the organization?

- Yes
- No

d) Are the supervisors ready to clear your doubts & help in improving your performance?

- Yes
- No

e) Does the management have a good relation with workers?

- Yes
- No

## D. Financial Benefits

a) What type of financial benefits do you get in organization?

- Insurance, health and wellness
- Retirement plans
- Perks and Benefits
- Disability insurance
- Other:

## E. Management & workers concerned

a) Do you feel that company policies really protect your interests?

- Yes
- No

b) Do you have problems with the present management setup?

- Yes
- No

c) Do you feel company policies should be changed ?

- Yes
- No

d) Does the company provide any training to improve your performance?

- Yes
- No

e) If yes , then are you satisfied with the training provided ?

- Yes
- No

## F. Other rankings

a) What do you think about the working environment of the organization?

| VERY BAD | BAD | AVERAGE | GOOD | EXCELLENT |
|---|---|---|---|---|
| | | | | |

b) What do you think about the Job security?

- Very Bad
- Bad
- Average
- Good
- Excellent

c) Write about other problems related to your job, if any:

_____

**Thank you for your valuable time and response**

# DEPARTMENT OF COMPUTER SCIENCE, HPURC
# DHARAMSHALA
# DEPARTMENT OF MCA

Session - Evening

**Attendance Sheet**

**Subject: Project Work (MCA-401)**
**Examination: Project 4th Semester for the session 2023-2024**
**Date: 10/07/2024**

| Sr. No. | Exam. Roll.No. | Roll No. | Name | Signature |
|---|---|---|---|---|
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| 2 | 38222950021 | 1002 | Sakshi | |
| 3 | 38222950019 | 1003 | Akhil Choudhary | |
| 4 | 38222950010 | 1004 | Simran Jaswal | |
| 5 | 38222950024 | 1005 | Abhishek Bhassia | |
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10/07/24

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**Internal Examiner**
(Dheeraj Sonkhla)

10/07/23
**External Examiner**
(Dr. Yogesh Mohan)

**“Jewelry Website”**

# A PROJECT REPORT

**By**

**“MANISHA”**

**“38222950006”**

SUBMITTED TO

**HIMACHAL PRADESH UNIVERSITY – SHIMLA**

IN

PARTIAL FULFILLMENT OF THE REQUIREMENT

OF

**MASTER OF COMPUTER APPLICATIONS (M.C.A)**

**BATCH: (2022-2024)**

**Under the Supervision of**

MR. DHEERAJ SONKHLA




**DEPARTMENT OF COMPUTER SCIENCE**

**REGIONAL CENTRE DHARAMSHALA**

# SELF-DECLARATION

I'm Manisha [Roll number: 38222950006], a student of MCA 4th semester, Department of computer science **Himachal Pradesh University, Regional Centre Dharamshala** hereby declare that the project work entitled

**"Jewelry Website**" submitted with the Department of Computer Science, Himachal Pradesh University Regional Centre, Dharamshala as a partial fulfillment of the requirement for the award of degree in Master in Computer Applications (MCA) has been carried out by me under the guidance of **"Mr. Dheeraj Sonkhla".**

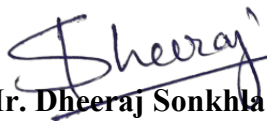
**Name**: Manisha
**Class Roll No**: 1013
**Exam Roll No**: 38222950006

# CERTIFICATE FROM GUIDE

This is to certify that the project report entitled "Jewelry Website" submitted to Department of Computer Science, Himachal Pradesh University, Regional Centre Dharamshala in partial fulfillment of the requirement for the award of the degree of MASTER OF COMPUTER APPLICATIONS has been carried out by **Miss Manisha** with enrolment no. **38222950006** under my guidance.

I wish her all the best for future.

Date:



**Mr. Dheeraj Sonkhla**

**(Project Guide)**

**(Department Of Computer Science)**

**fea**

# CERTIFICATE FROM COMPANY



# About the Company/ Industry / Institute

Hoping Minds is a forward-thinking educational organization dedicated to aligning academic training with industry demands. Founded by entrepreneurs from prestigious institutions like IIT and IIM, Hoping Minds aims to transform education in India through practical, placement-focused programs. The company has successfully run over 30 training programs across India, impacting more than 2,500 students. It is also an NSDC accredited partner, ensuring all courses are certified and monitored through the Skill India Portal. Hoping Minds offers comprehensive training in fields such as software development, data science, AI, and machine learning, emphasizing hands-on experience and industry relevance.

The organization is driven by its mission to provide holistic development, preparing students for real-world challenges. Programs include live classes, industry expert-led sessions, real-time corporate assignments, and personalized mentorship. Hoping Minds collaborates closely with top- tier companies globally, which enhances its curriculum and provides students with up-to-date skills. The company excels in web development, mobile app development, desktop applications, and UX/UI design, leveraging technologies like HTML, CSS, JavaScript, Node.js, React.js, and more. This comprehensive approach ensures students are well-equipped to excel in their careers, reflecting Hoping Minds' commitment to quality and innovation in education.

# ACKNOWLEDGEMENT

On every step there is a need for proper guidance, support and motivation. The encouragement enables the person to give his best performance and thus to achieve the goal.

I will express my deep sense of regards to Department of Computer Science, Himachal Pradesh University, Regional center for giving me the opportunity for developing a project providing all necessary resources and expertise for this purpose.

I sincerely acknowledge, with thanks, the encouraging guidance and critical supervision of my project guide **Mr. Dheeraj Sonkhla** I thank him for making the project grand success.

My extreme thanks to all teachers of Computer Science Department, for encouraging me and helping me for achieving success in my project work.

I avail the opportunity to express my deepest gratitude towards my trainee **Mr. Somiron** for helping me to complete this project success

Manisha

# ABSTRACT

"Aura - Jewelry Destination" is an innovative e-commerce platform developed using the MERN (MongoDB, Express.js, React, Node.js) stack, designed to revolutionize the shopping experience for jewelry and accessories. As a single-brand store, Aura offers a wide variety of jewelry under its own brand. The user-centric interface ensures a seamless shopping experience, featuring advanced search filters, personalized recommendations, and a secure checkout process.

The robust backend, powered by MongoDB, ensures efficient data handling and scalability, while Express.js and Node.js facilitate smooth server-side operations. React enhances the user experience with its dynamic and responsive front-end design. "Aura - Jewelry Destination" aims to bridge the gap between customers seeking high-quality jewelry and the brand, fostering a vibrant online community dedicated to celebrating and promoting fashion through jewelry.

To further enhance customer satisfaction, "Aura – Jewelry Destination" offers features such as detailed product descriptions, high-quality images, and customer reviews to help shoppers make informed decisions. The platform also includes a streamlined return and exchange process, ensuring customer confidence in their purchases. Additionally, a loyalty program rewards repeat customers with exclusive offers and discounts, fostering a strong and loyal customer base.

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# CHAPTER-1

## INTRODUCTION

### 1.1 Introduction of Project:-

"Aura - Jewelry Destination" is an innovative and live e-commerce platform developed using the MERN (MongoDB, Express.js, React, Node.js) stack. This project aims to revolutionize the shopping experience for jewelry and accessories, providing a seamless and sophisticated online marketplace exclusively for the Aura brand. Designed to meet the needs of modern consumers, Aura offers a user-centric interface that ensures an effortless shopping experience, featuring advanced search filters, personalized recommendations, and a secure checkout process. As a single-brand store, Aura is dedicated to showcasing its diverse array of jewelry, catering to the refined tastes of jewelry enthusiasts. This platform stands out in the digital marketplace by offering a comprehensive solution that is both efficient and aesthetically pleasing.

Various features that this project offers are:

### 1.2 Objectives:

The primary objective of "Aura - Jewelry Destination" is to create a dynamic and user-friendly e-commerce platform that bridges the gap between customers seeking high-quality jewelry and the brand itself, leveraging the power of the MERN stack. The specific goals of the project include:

1. **Enhance Customer Experience**: Provide a seamless and enjoyable shopping experience for users through a well-designed interface, advanced search functionalities, personalized recommendations, and secure payment options.

2. **Streamline Operations:** Offer an intuitive platform for managing product listings, inventory and orders efficiently, ensuring a smooth and hassle-free

experience for both the business and its customers.

3. **Promotes Fashion:** Celebrate and promote fashion by offering a diverse range of jewelry, enabling customers to discover and appreciate both traditional and contemporary styles.

4. **Ensure Scalability and Performance:** Utilize the MERN stack to build a robust, scalable, and high-performing platform capable of handling increasing traffic and data efficiently as the user base grows.

5. **Foster Community Engagement:** Create an interactive community where customers can connect, share feedback, and build relationships, fostering a sense of community and mutual support.

5. **Facilitate Accessibility and Convenience:** Ensure the platform is accessible across various devices and user-friendly for people with different levels of technological proficiency, making shopping for jewelry convenient and accessible to all.

6. **Support Local Artisans and Businesses:** Provide a platform that supports local artisans and small businesses, giving them a broader platform to showcase their unique products and reach a wider audience.

7. **Offer Exclusive Collections:** Provide exclusive collections and limited-edition pieces to attract discerning customers looking for unique jewelry items.

8. **Enhance Security Measures:** Implement robust security measures to protect customer data and ensure secure transactions, building trust and confidence among users.

## 1.3 STRUCTURE OF THE PROJECT

- ❖ Before Login
  - ➢ Home
  - ➢ Products
  - ➢ Search
  - ➢ Store Locator
  - ➢ Login
  - ➢ Register

- ❖ After User Login
  - ➢ Home
  - ➢ Products
  - ➢ Search
  - ➢ Store Locator
  - ➢ Cart
  - ➢ Wishlist
  - ➢ Forgot Password Feature
  - ➢ Send Reviews and Rating
  - ➢ Checkout
  - ➢ Place Order
  - ➢ See Orders History

# CHAPTER-2

## FIELD OF TRAINING

## HARDWARE AND SOFTWARE REQUIREMENTS

### 2.1 At Developer Side:

During system development, I have to design both static and dynamic website interfaces, create website functions and a database system, edit photos and pictures, so its has a set of software and hardware requirements.

| Hardware Used | Software Used |
|---|---|
| Intel i5 | React, Express |
| 11th GEN | NodeJS Server |
| 256GB SSD | MongoDb Database |
| 4GB RAM | Notepad |
| O.S Window 10 | Vs Code |

### 2.2 Software Used:

The following is the requirements for the system users including members and administrators.

| Hardware Requirements | Software Requirements |
|---|---|
| Intel Pentium 4 Processor | Browser (IE 7.0 or Above, Mozilla |
| 20 GB Hard Disk Drive. | Firefox, Goggle ,Chrome |
| 256 RAM | Browser must be javascript enabled |
| O.S window XP | |

## 2.3 Software Used:

**Visual Studio Code:**

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, PHP, Go, .NET).

**NODEJS:**

Node.js is a runtime environment that allows you to run JavaScript code outside of a web browser. It is built on the V8 JavaScript engine, which is the same engine that powers Google Chrome. Node.js enables developers to write server-side and networking applications using JavaScript, a language traditionally associated with client-side scripting. It provides an event-driven, non-blocking I/O model, making it efficient and lightweight for building scalable and high-performance applications. Node.js has a vast ecosystem of modules available through npm (Node Package Manager), which simplifies the process of integrating third-party libraries and frameworks into Node.js applications

**REACT:**

React is a JavaScript library developed by Facebook for building dynamic and interactive user interfaces for web applications. It follows a component-based architecture, allowing developers to create reusable UI components that efficiently update and render based on changes in data.With features like virtual DOM, JSX syntax, and unidirectional data flow, React simplifies the process of building complex UIs while optimizing performance and code maintainability. Additionally, React Hooks introduced in React 16.8 enable functional components to manage state and side effects, further enhancing developer productivity. Overall, React provides a powerful framework for building modern web applications with a focus on reusability,

performance, and developer experience.

**MONGODB:**

MongoDB is a versatile open-source NoSQL database system renowned for its flexibility and scalability. Unlike traditional relational databases, MongoDB stores data in JSON-like documents within collections, offering a more adaptable approach to data representation. Its schema-free nature permits dynamic changes to document structures, simplifying development and accommodating evolving application requirements seamlessly. MongoDB's architecture supports horizontal scaling across multiple servers, making it adept at managing vast datasets and high traffic loads. With features like sharding and replica sets, MongoDB empowers developers to build robust and scalable applications capable of meeting the demands of modern data-intensive environments.

**JAVASCRIPT:**

JavaScript is the dominant client-side scripting language of the Web, with 97% of websites using it for this purpose. Scripts are embedded in or included from HTML documents and interact with the DOM. All major web browsers have a built- in JavaScript engine that executes the code on the user's device.

**CSS:**

Cascading Style Sheets, commonly known as CSS, is an integral part of the modern web development process. It is a highly effective HTML tool that provides easy

control over layout

and presentation of website pages by separating content from design.

The standout advantage of CSS is the added design flexibility and interactivity it brings to web development. Developers have greater control over the layout allowing them to make precise section-wise changes.

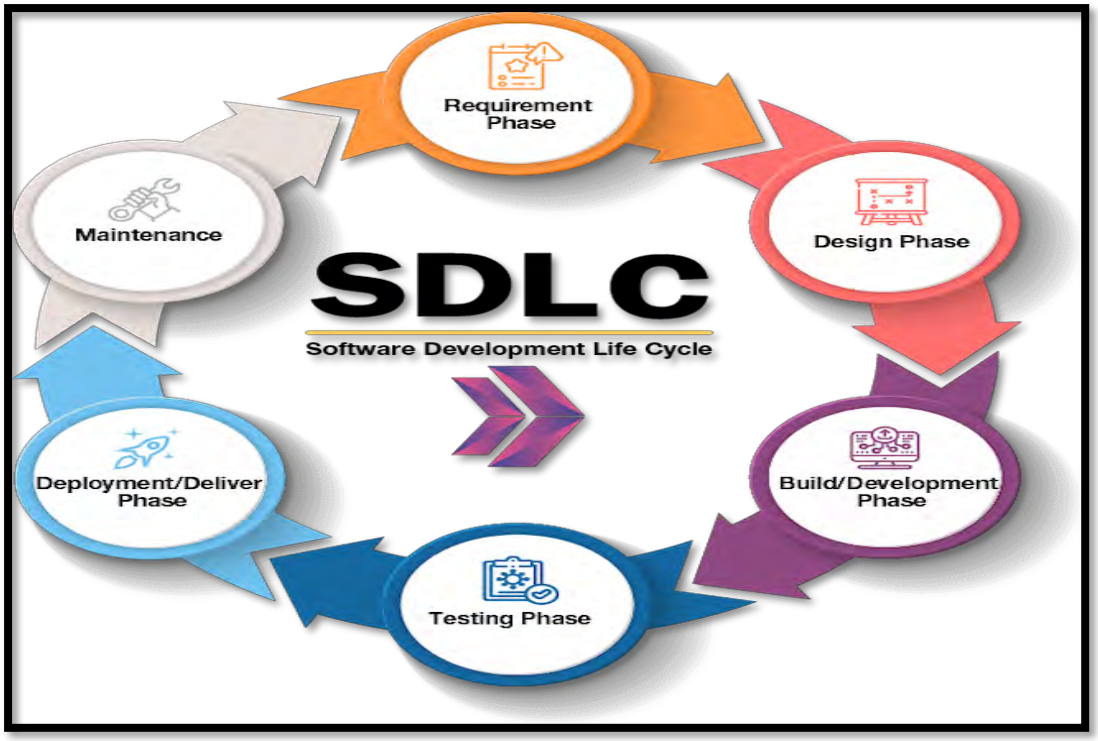
**BOOTSTRAP:**

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front- end web development. It contains HTML, CSS and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

# CHAPTER-3

## SYSTEM DEVELOPMENT LIFE CYCLE

**System Development Life Cycle:** -The System Development Life Cycle (SDLC) is a systematic and structured approach used in software engineering and information systems development. It guides the entire process of creating, implementing, and maintaining a software system or application from its initial conception to its eventual retirement. The SDLC provides a framework that ensures the development process is well-organized, efficient, and effective in delivering a high-quality product that meets the specified requirements.




### 2.3 Feasibility Study: -

A feasibility study is a critical phase in the development of any project. It assesses the technical, economic, legal, operational, and scheduling viability of the project.

- **Technical Feasibility:**

- Assess the technical capabilities and expertise of the development team.
- Evaluate if the required technology and tools are readily available and can be effectively utilized to build the website.
- Determine if the website can be integrated with third-party services and APIs for payment processing and other functionalities.

- **Economic Feasibility:**

- Estimate the initial and ongoing costs of developing and maintaining the website.
- Analyze potential revenue streams and project the return on investment (ROI) over a specific period.
- Consider the cost of acquiring products, inventory management, and shipping logistics.

- **Legal Feasibility:**

- Review and comply with relevant laws and regulations related to Restaurant business.
- Ensure the website adheres to data protection and privacy laws to safeguard customer information.
- Obtain necessary licenses or permits required to operate the Restaurant business legally.

- **Operational Feasibility:**

- Evaluate the organization's capacity to handle day-to-day operations of the Restaurant website.
- Assess the availability of resources, including personnel, infrastructure, and inventory management systems.
- Analyze potential risks and challenges in managing the Restaurant+ platform efficiently.

# CHAPTER – 4

## SYSTEM ANALYSIS

### 4.1 Why is System Analysis Necessary?

During system analysis some activities are carried out, such as problem definition, design, implementation. Before designing the actual system/project, you should know,

**1. What is the problem?**

**2. How to solve it?**

**3. What are the technical factors required?**

**4. What are its features and limitations?**

If a system is designed without considering above activities, then the system will properly to the satisfaction of user requirement. So system analysis is necessary to design perfect and accurate system, which satisfies the user requirement.

**Role of system analyst: -**

1. System analyst has to provide different solutions to the problem, to satisfy user requirements.

2. The system analyst must be able to find out the details about the system itself. To do this, the analyst will have to look at such things as forms (input, output formats), data used by the organization.

3. System analyst must also be able to work in environments that have considerable ambiguity and uncertainty.

4. System analyst must also be creative and imaginative in producing new solutions to

meet user requirements.

## Key Steps in System Analysis: -

**1. Requirements Gathering:**

The system analyst works closely with stakeholders, end users, and subject matter experts to collect information about the existing system or the requirements for the new system. Various techniques like interviews, workshops, and observation are used to gather these requirements.

**2. Problem Identification:**

The analyst identifies the problems and limitations in the current system. This helps to set clear objectives for the new system and ensures that it addresses the existing shortcomings.

**3. Feasibility Study**:

During this phase, the analyst evaluates the feasibility of implementing proposed system. This includes assessing technical, economic, legal, operational, and scheduling feasibility

**4. Requirements Analysis:**

The gathered requirements are analyzed to identify their priority, importance, and interdependencies. The analyst defines functional and nonfunctional requirements and creates use cases, data flow diagrams, and other modeling techniques to represent the system's behavior.

**5. Modeling and Design:**

System analysts create models and design documents to visualize the proposed system's structure and flow. This may include data models, system flowcharts, entity-relationship diagrams (ERDs), and process models.

**6. Risk Assessment:**

The analyst identifies potential risks associated with the system implementation and usage and develops strategies to mitigate these risks.

**7. Cost-Benefit Analysis:**

A cost-benefit analysis is performed to determine if the benefits of implementing the system outweigh the costs involved.

**8. Prototyping:**

In some cases, the analyst may create prototypes of the system to demonstrate key functionalities to stakeholders and gather feedback.

**9. Validation and Approval:**

The proposed system and all the analysis documents are presented to the stakeholders for validation and approval.

**10. Documentation:**

All the analysis findings, requirements, models, and design decisions are documented to serve as a reference for the development team.

## 4.1 System Configurations:

The system configuration for e-commerce website typically involves a combination of hardware, software, and network components. Below is a basic outline of the essential system configuration for such a website: -

**1. Web Server: -**

- A robust web server to host the website and handle HTTP requests from users' browsers.

- Popular choices include Apache, Nginx, or Microsoft Internet Information Services (IIS).

**2. Database Server: -**

- A database server to store and manage product information, user data, orders, and other relevant data.
- Common database management systems include MySQL, Microsoft SQL Server.

**3. Back-End Programming Languages: -**

- Choose a suitable programming language for server-side processing, data handling, and business logic implementation.
- Common options include Node.js.

- Utilize HTML, CSS, and JavaScript for the website's front-end to create an interactive and user-friendly interface.
- React.js can be used as a JavaScript library to build dynamic user interfaces.

**5. Content Delivery Network (CDN): -**

- Implement a CDN to distribute static assets (e.g., images, CSS, and JavaScript files) across various servers, ensuring faster load times for users worldwide.

**6. Payment Gateway Integration: -**

- Integrate a reliable payment gateway to facilitate secure and seamless online transactions.
- Popular choices include PayPal, Stripe, or other regional payment processors.

## 4.2 Hardware Requirements: -

The hardware requirements for an e-commerce website depend on factors such as the expected user traffic, the size of the product catalog, and the complexity of the

website's features. Here are general hardware recommendations:

**1. Web Server:**

- **CPU:** Multi-core processor (e.g., Intel Xeon, AMD Ryzen) for handling concurrent requests.
- **RAM:** At least 4GB of RAM, but higher capacity for improved performance during peak loads.
- **Storage:** SSD (Solid State Drive) for faster data access and reduced loading times.

**2. Database Server:**

- **CPU:** Like the web server, a multi-core processor to handle database queries efficiently.
- **RAM:** Sufficient memory to accommodate database operations and caching.
- **Storage:** SSD with enough capacity to store product information, user data, and order details.

## 4.3 Software Requirements: -

The software requirements are determined by the technology stack used to build the E-Commerce website

**1. Operating System:** Linux (e.g., Ubuntu, CentOS) is commonly used for web servers due to its stability and security features. However, other operating systems like Windows or macOS can also be used for development environments.

**2. Database Server:** A database server to store and manage product information, user data, orders, and other relevant data.

- Common database management systems include MySQL, Microsoft SQL Server, or MongoDB
- Mongo DB: To store Menu list, user data, and order details.

**3. Front-End Technologies:**

- Utilize HTML, CSS, and JavaScript for the website's front-end to create an interactive and user-friendly interface.
- React.js can be used as a JavaScript library to build dynamic user interfaces.

**4. Back-End Technologies:**

- Choose a suitable programming language for server-side processing, data handling, and business logic implementation.
- Common options include Node.js.

**5. Payment Gateway Integration:** Integration with a secure and reliable payment gateway provider to handle transactions. By meeting the hardware and software requirements, the fashion e-commerce website can deliver a smooth, secure, and responsive user experience while accommodating growth and scalability demands.

# CHAPTER-5

# SYSTEM DESIGN

## 5.1 System Design: -

The system design is created in this phase after studying the requirement specifications from the first phase. This system design aims in determining the overall system architecture as well as the hardware and system requirements.

This section describes the system study, analysis, design strengths and weaknesses of the current system, Contest level diagrams, Entity Relationship Diagram, Architectural design. After interpretation of the data, tables were drawn and process of data determined to guide the researcher of the implementation stage of the project. The tools, which were employed during this methodology stage, where mainly Data Flow Diagrams, Entity Relationship Diagrams and database tables. The design ensures that only allows authorized users to access the systems information.

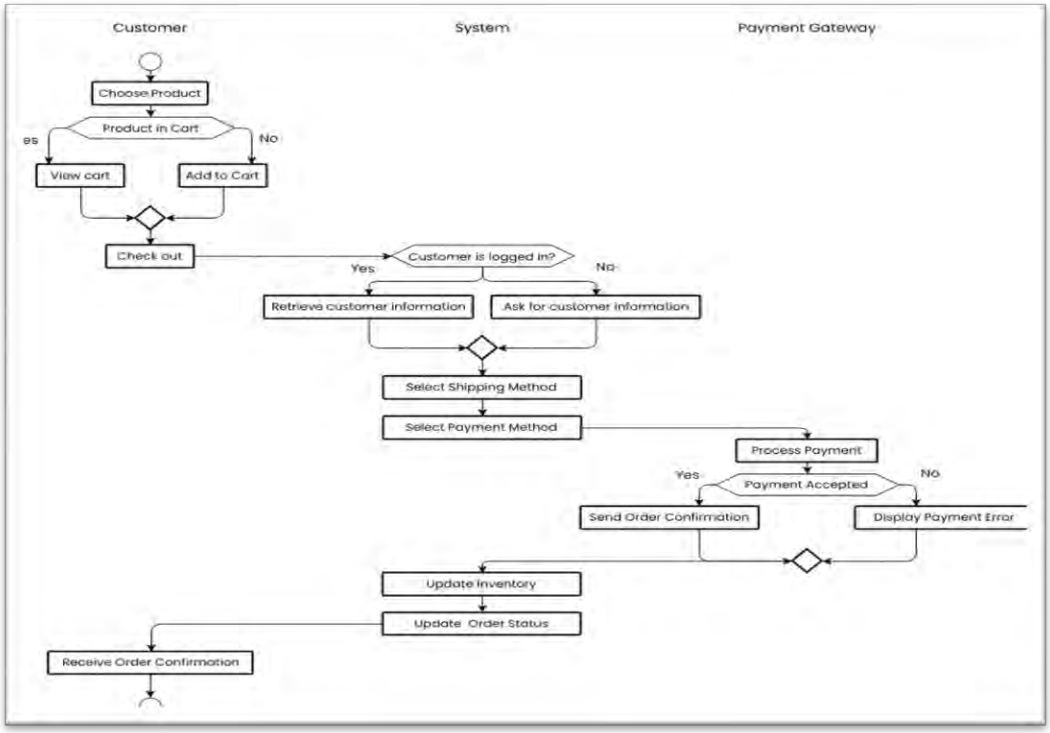
- DFD (Data-Flow-Diagram).
- ER- Diagram (Entity-Relationship).
- Database Tables.

## 5.2 DFD (Data-Flow-Diagram): -

The project dictionary contains an entry for each DFD developed during analysis. Thus there is a context diagram. A top level DFD and detailed diagrams for all top-level functions and their components. Each DFD has a unique number and can be reference by that number. DFD is a graphics representation of system that shows data flow to, frame and within the system, processing functions that change data in some manner and the storage this data. DFD are nothing but more than network of a related system functions (processing of data) that indicate from where information (data) is received (inputs) and to where it is send (outputs). It is also called as bubble charges. DFD's are

used to despite specifics data flows (movement of inform) from both the physical view point (How it is done) and the logical view point (what is done). DFD use a number of symbols to represent system. Most data flow modelling methods use four kinds of symbols these symbols are used to represent four kinds of system components.

- processes.
- data stores.
- data flows.
- external entities




## 5.3 METHODOLOGY FOLLOWED-

### DEFINING A PROBLEM

- Define a problem.
- Justify the needs for a computerized solution.
- Identify the functions to be provided by the systems along with the constraints.

- Determine goal and requirements of the system.
- Establish the high level acceptance criteria.

## DEVELOPING A SOLUTION STRATEGY

- Outline several solution strategies. Do not consider constraints for the time being.
- Conduct a feasibility strategy, including why the other strategies are rejected.
- Develop a list of priorities for the Tour portal characteristics.

## PLANNING THE DEVELOPMENT PROCESS

- Define a life cycle model and an organizational structure for the project.
- Plan the configuration
- Management, quality assurance and validation activities.

## REQUIREMENT ANALYSIS STEPS

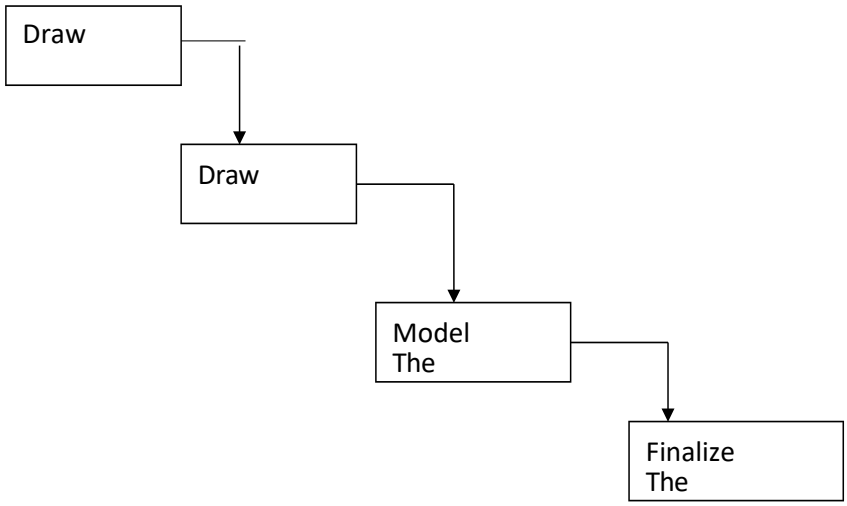



**Fig 3.1**

- **Draw Context Diagrams**– The context diagram is a simple model that defines the boundaries and interfaces of the proposed system with the external world. It identifies the entities outside the proposed system that interact with the system
- **Development Of Prototype**– One effective way to find out what the customer really wants is to construct a prototype, something that looks and preferably acts like a part of the system they want.
- **Model The Requirement** – This process really consist of various graphical representations of functions, data entities, external entities and the relationship between them. The graphical view may help to find incorrect, inconsistent, missing and superfluous requirement.
- **Finalize The Requirements** – After modeling the requirements we will have better understanding of the system behavior. The inconsistencies and ambiguities have been identified and corrected.

## GOALS OF THE PROPOSED SYSTEM:

**1) Immediate retrieval of information:**

The main objective of the new system is to provide for quick and efficient retrieval of information. Any type of information would be available to the user whenever he requires. Facility would be provided for online query to cut down on the response time greatly.

**2) Immediate storage of information:**

In the proposed system, it will be easy to store information at any given time at the correct places. The location of storage would be easily available and user will face no difficulty.

**3) Prompt updating of information:**

In the proposed system, the information will always remain up to date as the updating will be prompt and without any efforts. This factor will be of great importance in the proposed system as it determines the integrity of the information stored.

**4) Fast computation of information:**

The computation of information will be quite fast in the proposed system. Not only mathematical calculations, but also logical comparisons will be quick in the new system.

**5) Planned approach toward working:**

The working in the service center information system will be well planned and organized. The data will be stored properly in the data store, which will help in retrieval of information as well as in its storage.

**6) Generation of managerial and strategic reports:**

The new system would provide for regular generation of reports, which would help the management in decisions making work and in controlling the overall working of the organization. The generation, of these reports would be possible only if the system is organized such that retrieval of information can be made on conditions.

**7) Accuracy:**

The level of accuracy in the new proposed system would be higher. All operations and computations would be done correctly and this will ensure that whatever information is coming from the center, it is accurate.

**8) Reliability:**

The reliability of the proposed system would be high due to the above stated reasons. The reason for the increased reliability of the system is that now there would be proper storage of information, its maintenance would be well managed and retrieval would be possible in the desired manner.

**9) Non Redundant Information**

In the new system, utmost care would be taken that no information is repeated, any usage of storage or otherwise. This would assure economic usage of storage or space and consistency in the data stored. This will also help make those changes easily as the change would have to be made only at that very place and no where else.

### 5.4Learning Undertaken during this Training

**Full Stack Development**

Full-stack Development refers to the full study of a computer system application, and full-stack developers straddle two distinct areas of web development: front-end and back-end. The front end includes everything a customer, or web user, can see and interact with. In contrast, the back-end refers to all the servers, databases, and other internal architectures that drive the application; generally, the end user never interacts directly with this domain.

The easiest way to put the full stack into perspective is to imagine a restAura nt. The front part includes the well-decorated and comfortable seating areas where visitors enjoy their food. The kitchen and pantry make up the "back-end" and are usually hidden from view from the customer.

Front end developers work to optimize the visible parts of an application for web browsers and mobile devices. Front end platforms are usually built with HTML, CSS, and JavaScript. Back end developers, in contrast, refine the software code that communicates with servers, databases, or other proprietary software that conveys information to front end interfaces.

The modern full stack developer is an experienced generalist who can build a minimal viable product — i.e., an application with enough functionality to please early customers and spark feedback for continued development — on their own. Companies rely on full stack professionals to spot errors between the front and back end and tackle tasks that straddle both disciplines. This versatility has become increasingly vital as newer apps begin to incorporate

AI and other sophisticated technologies into their programming.

## Front-End Development:

Front-end web development, also known as client-side development is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly. The objective of designing a site is to ensure that when the users open up the site they see the information in a format that is easy to read and relevant.

Everything you see on a website, like buttons, links, animations, and more, were created by a front end web developer. It is the front end developer's job to take the vision and design concept from the client and implement it through code. Everything on the page from the logo to the search bar, buttons, overall layout and how the user interacts with the page was created by a front end developer. Front end developers are in charge of the look and feel of the website.

Four Main Components of Front End Development-

- HTML
- CSS
- JavaScript
- Bootstrap

## Role of HTML in Web Designing:

Hypertext Mark-up Language, or HTML, is a programming language used to describe the structure of information on a web page. The HyperText Markup Language or HTML is the standard mark-up language for documents designed to be displayed in a web browser. Together, HTML, CSS, and JavaScript make up the essential building blocks of websites,

with CSS controlling a page's appearance, and JavaScript programming its functionality. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. You can think of HTML as providing the bones of a web page, while CSS provides the skin, and JavaScript provides the brains.

A web page can contain headings, paragraphs, images, videos, and many other types of data. Front-end developers use HTML elements to specify what kind of information each item on a web page contains — for instance, the "p" element indicates a paragraph. Developers also write HTML code to specify how different items relate to one another in the overall structure of the page.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as <img /> and <input /> directly introduce content into the page.

Every website you open in your browser, from social networks to music services, uses HTML. A look under the hood of any website would reveal HTML code providing structure for all the page's components.

## Role of CSS in Web Designing:

Cascading Style Sheets, commonly known as CSS, is an integral part of the modern web development process. It is a highly effective HTML tool that provides easy control over layoutand presentation of website pages by separating content from design.

The standout advantage of CSS is the added design flexibility and interactivity it brings to web development. Developers have greater control over the layout allowing them to make precise section-wise changes.

As customization through CSS is much easier than plain HTML, web developers are able to create different looks for each page. Complex websites with uniquely presented pages are feasible thanks to CSS.

CSS works by creating rules. These rules are simultaneously applied to multiple elements within the site. Eliminating the repetitive coding style of HTML makes development workfaster and less monotonous. Errors are also reduced considerably. Since the content is completely separated from the design, changes across the website can be implemented all at once. This reduces delivery times and costs of future edits. Improved website loading is an underrated yet important benefit of CSS. Browsers download the CSS rules once and cache them for loading all the pages of a website. It

makes browsing the website faster and enhances the overall user experience.

## Role of JavaScript in Web Designing:

In November 1996, Netscape submitted JavaScript to Ecma International, as the starting point for a standard specification that all browser vendors could conform to. This led to the official release of the first ECMAScript language specification in June 1997.

The standards process continued for a few years, with the release of ECMAScript 2 in June 1998 and ECMAScript 3 in December 1999. Work on ECMAScript 4 began in 2000.

Meanwhile, Microsoft gained an increasingly dominant position in the browser market. By the early 2000s, Internet Explorer's market share reached 95%. This meant that JScript became the de facto standard for client-side scripting on the Web.

JavaScript is the dominant client-side scripting language of the Web,with 97% of websites using it for this purpose. Scripts are embedded in or included from HTML documents and interact with the DOM. All major web browsers have a built-in JavaScript engine that executes the code on the user's device.

## Libraries and frameworks:

Over 80% of websites use a third-party JavaScript library or web framework for their client-side scripting.

**jQuery** is by far the most popular library, used by over 75% of websites.

Facebook created the React library for its website and later released it as open source; other sites, including Twitter, now use it. Likewise, the Angular framework created by Google for its websites, including YouTube and Gmail, is now an open source project used by others.

In contrast, the term "Vanilla JS" has been coined for websites not using any libraries or frameworks, instead relying entirely on standard JavaScript functionality.

## Development Tools

Important tools have evolved with the language.

- Every major web browser has built-in web development tools, including a JavaScript debugger.
- Static program analysis tools, such as ESLint and JSLint, scan JavaScript code for conformance to a set of standards and guidelines.
- Some browsers have built-in profilers. Stand-alone profiling libraries have also been created.
- Many text editors have syntax highlighting support for JavaScript code.

### Related Technologies Java:

A common misconception is that JavaScript is the same as Java. Both indeed have a C-like syntax (the C language being their most immediate common ancestor language). They are also typically sandboxed (when used inside a browser), and JavaScript was designed with Java's
syntax and standard library in mind.

In particular, all Java keywords were reserved in original JavaScript, JavaScript's standard library follows Java's naming conventions, and JavaScript's Math and Date objects are based on classes from Java 1.0.

Java and JavaScript both first appeared in 1995, but Java was developed by James Gosling of Sun Microsystems and JavaScript by Brendan

### HYPERLINK:

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"https://en.wikipedia.org/wiki/Brendan_Eich" HYPERLINK

"https://en.wikipedia.org/wiki/Brendan_Eich" Eich of Netscape Communications.

The differences between the two languages are more prominent than their similarities. Java has static typing, while JavaScript's typing is dynamic. Java is loaded from compiled bytecode,while JavaScript is loaded as human-readable source code. Java's objects are class-based, while JavaScript's are prototype-based. Finally, Java did not support functional programming untilJava 8, while JavaScript has done so from the beginning, being influenced by Scheme.

## JSON

JSON, or JavaScript Object Notation, is a general-purpose data interchange format that is defined as a subset of JavaScript's object literal syntax.

## WebAssembly:

Since 2017, web browsers have supported WebAssembly, a binary format that enables a JavaScript engine to execute performance-critical portions of web page scripts close to native speed.[108] WebAssembly code runs in the same sandbox as regular JavaScript code.asm.js is a subset of JavaScript that served as the forerunner of WebAssembly.

## Transpilers:

JavaScript is the dominant client-side language of the Web, and many websites are script-heavy. Thus transpilers have been created to convert code written in other languages, which can aid
the development process.

## Role of bootstrap in web development:

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front- end web development. It contains HTML, CSS and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

As of August 2021, Bootstrap is the tenth most starred project on GitHub
Bootstrap allows back-end developers the ability to pseudo-implement layouts without the need for a front-end developer. It gives people who don't know much about how CSS works an easyway to implement basic grid structures for modules and full-page layouts. It is a great tool for rapid prototype development.

## Features:

Bootstrap is an HTML, CSS & JS Library that focuses on simplifying the development of informative web pages (as opposed to web apps). The primary purpose of adding it to a web project is to apply Bootstrap's choices of color, size, font and layout to that project. As such, the primary factor is whether the developers in charge find those choices to their liking. Once added to a project, Bootstrap provides basic style definitions for all HTML elements. The result
is a uniform appearance for prose, tables and form elements across web browsers. In addition,developers can take advantage of CSS classes defined in Bootstrap to further customize the appearance of their contents. For example, Bootstrap has provisioned for light- and dark- colored tables, page headings, more prominent pull quotes, and text with a highlight.Bootstrap also comes with several JavaScript components in the form of jQuery plugins. They provide additional user interface elements such as dialog boxes, tooltips, and carousels. Each Bootstrap component consists of an HTML structure, CSS declarations, and in some cases accompanying JavaScript code. They also extend the functionality of some existing interface elements, including for example an auto-complete function for input fields.

Example of a webpage using Bootstrap framework rendered in Firefox

The most prominent components of Bootstrap are its layout components, as they affect an entire web page. The basic layout component is called "Container", as every other element in the page is placed in it. Developers can choose between a fixed-width container and a fluid- width container. While the latter always fills the width of the web page, the former uses one of the five predefined fixed widths, depending on the size of the screen showing the page:

- Smaller than 576 pixels
- 576–768 pixels
- 768–992 pixels
- 992–1200 pixels
- Larger than 1200 pixels

Once a container is in place, other Bootstrap layout components implement a CSS Flexbox layout through defining rows and columns.

## BACK-END Development:

**Back-end Development** refers to the server-side development. It focuses on databases, scripting, website architecture. It contains behind-the-scene activities that occur when performing any action on a website. It can be an account login or making a purchase from an online store. Code written by back-end developers helps browsers to communicate with database information.

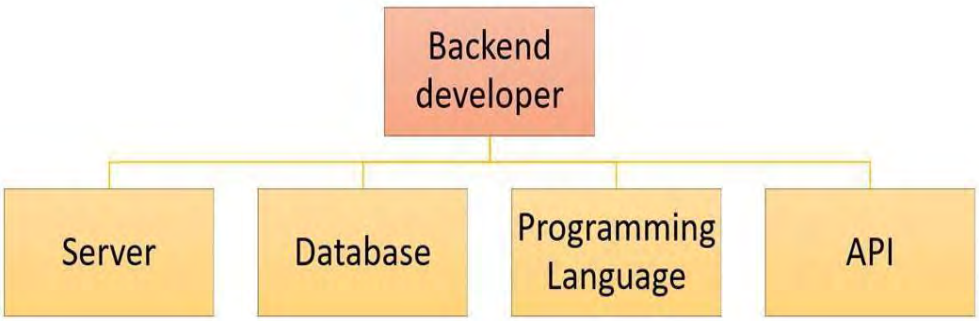


**Fig 3.2**

## Web Development Languages:

Backend engineer should know at least one server-side or Backend programming language like Java, Python, Ruby, .Net etc.

## Database and Cache:

Knowledge of various DBMS technology is one of the important Backend developer skills. MySQL, MongoDB, Oracle, SQLServer, Redis are widely used for this purpose. Knowledge of caching mechanisms like varnish, Memcached, Redis is a plus.

## Server:

Exposure to handling Apache, Nginx, IIS servers, Microsoft IIS is desirable. A good background in Linux helps tremendously in administering servers.

## API (REST & SOAP):

Knowledge of web services or API is also important for full stack developers. Knowledge of creations and consumption of REST and SOAP services is desirable.

## Introduction to NodeJs:-

Node.js provides a JavaScript Environment which allows user to run their code on the server (outside the browser). Node pack manager i.e. npm allows user to choose from thousands of free packages to download.

- Open-source JavaScript Runtime Environment
- Single threading – Follows a single-threaded model.
- Data Streaming
- Fast – Built on Google Chrome's JavaScript Engine, Node.js has a fast code execution.
- Highly Scalable Initialize a Node.js application by typing running the below command in the command window. Accept the standard settings.

## Why NodeJs?

A common task for a web server can be to open a file on the server and return the content to the client.

Here is how PHP or ASP handles a file request:

- Sends the task to the computer's file system.
- Waits while the file system opens and reads the file.
- Returns the content to the client.
- Ready to handle the next request.

Here is how Node.js handles a file request:

- Sends the task to the computer's file system.
- Ready to handle the next request.
- When the file system has opened and read the file, the server returns the content to the client.

Node.js eliminates the waiting, and simply continues with the next request.
Node.js runs single-threaded, non-blocking, asynchronous programming, which is very memory efficient.

## ExpressJs:

Express is a Node.js framework. Rather than writing the code using Node.js and creating loads of Node modules, Express makes it simpler and easier to write the back-end code. Express helps in designing great web applications and APIs. Express supports many middleware which makes the code shorter and easier to write.

- Asynchronous and Single-threaded.
- Efficient, fast & scalable
- Has the biggest community for Node.js
- Express promotes code reusability with its built-in router.
- Robust API

## Why MongoDb?

### Indexing

Fields in a MongoDB document can be indexed with primary and secondary indices or index.

### Replication:

MongoDB provides high availability with replica sets. A replica set consists of two or more copies of the data. Each replica-set member may act in the role of primary or secondary replica at any time. All writes and reads are done on the primary replica by default. Secondary replicas maintain a copy of the data of the primary using built-in replication. When a primary replica fails, the replica set automatically conducts an election process to determine which secondary should become the primary. Secondaries can optionally serve read operations, but that data is only eventually consistent by default.

If the replicated MongoDB deployment only has a single secondary member, a separate daemon called an arbiter must be added to the set. It has a single responsibility, which is to resolve the election of the new primary. As a consequence, an idealized distributed MongoDB deployment requires at least three separate servers, even in the case of just one primary and one secondary.

### Load Balancing:

MongoDB scales horizontally using sharding. The user chooses a shard key, which determines how the data in a collection will be distributed. The data is split into ranges (based on the shard key) and distributed across multiple shards. (A shard is a master with one or more replicas.) Alternatively, the shard key can be hashed to map to a shard – enabling an even data distribution.

MongoDB can run over multiple servers, balancing the load or duplicating data to keep the system up and running in case of hardware failure.

## File Storage:

MongoDB can be used as a file system, called GridFS, with load balancing and data replication features over multiple machines for storing files.

This function, called grid file system, is included with MongoDB drivers. MongoDB exposes functions for file manipulation and content to developers. GridFS can be accessed using mongofiles utility or plugins for Nginx and lighttpd. GridFS divides a file into parts, or chunks, and stores each of those chunks as a separate document.

## Aggregation:

MongoDB provides three ways to perform aggregation: the aggregation pipeline, the map- reduce function, and single-purpose aggregation methods.

Map-reduce can be used for batch processing of data and aggregation operations. But according to MongoDB's documentation, the Aggregation Pipeline provides better performance for most aggregation operations.

## FUNCTIONAL REQUIREMENTS:

Functional requirements define the fundamental actions that must take place in the software in accepting the inputs and in processing and generating the outputs. These are listed as “shall” statements starting with “The system shall….

**Login Module**– This module is provided for Aura ’ users seller who have registered themselves in the system. These login are provided .according to the need of the systems.

- **Input –** User id and password
- **Process** – After entering user id and password by user process of validation occur to identify whether user id and password is available in database or

not.

- **Output** – Registered user can access website and can use the services.

**Administrator Module** – The administrator is provided with password and login-id with which he/she can access the system. Administrator is provided right of maintaining the database, verifies registered users.

- **Input** – Login id and password.
- **Process** – Process of validation will occur.
- **Output**– Administrator will maintain the database and will perform operations.

**Search Module**–In this module we are going to provide facility for users to search for products

according to their specified categories so that users can search for Tour portals easily.

- **Input-** Initial letter of Product Items, with the help of keywords and with

  the help of Category name.

- **Output-** Information about Jewelery products.

## NON FUNCTIONAL REQUIREMENT

### Performance Requirement:

The performance of the Aura website mainly depends on the speed of Internet connection. If the user wants hard real time response, then this is definitely not the Aura website to go for.

### Safety Requirements:

The electrical connection to the devices is critical and should be done according to the standards to avoid any short circuits.

### Security Requirements:

We aim to provide high security features like encryption to the user accounts to provide security from illegal hacking and gaining access to the system.

**Entity Relationship Diagram:**

Entity relationship diagrams are a way to represent the structure and layout of a database. It is used frequently to describe the database schema. ER diagrams are very useful as they provide a good conceptual view of any database, regardless of the underlying hardware and software. An ERD is a model that identifies the concepts or entities that exist in a system and the relationships between those entities. An ERD is often used as a way to visualize a relational database: each entity represents a database table, and the relationship lines represent the keys in one table that point to specific records in related tables.

ERDs may also be more abstract, not necessarily capturing every table needed within a database, but serving to diagram the major concepts and relationships. This ERD is of the latter type, intended to present an abstract, theoretical view of the major entities and relationships needed for management of electronic resources. It may assist the database design process for an e-resource management system, but does not identify every table that would be necessary for an electronic resource management database.

## Objects:

There are three main objects on an ER Diagram:

1. Entities
2. Relations
3. Attributes.

## Entities:

An entity is a concept or object in the database. Entities are concepts within the data model. Each entity is represented by a box within the ERD. Entities are abstract concepts, each representing one or more instances of the concept in question. An entity might be considered a container that holds all of the instances of a particular thing in a system. Entities are equivalent to database tables in a relational database, with each row of the table representing an instance of that entity.

## Attributes:

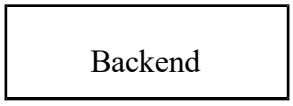
The Supplier Name, Supplier Address, Telephone Number etc. A given attribute belonging to a given entity occurrence can only have one value. Therefore, if a supplier could have more than one address or telephone number then this should be determined before defining the attributes of that entity type. In this example the defined entity may require two or three address and/or telephone number attributes. It is the maximum practical instances of a given attribute that should be catered for in the entity type definition.

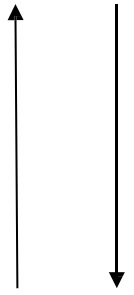
## Relationships:

Relations are the connections between two or more entities. Relationship lines indicate that each instance of an entity may have a relationship with instances of the connected entity, and vice versa. Each entity type can always be described in terms of attributes, and these attributes will apply to all occurrences of that given entity type

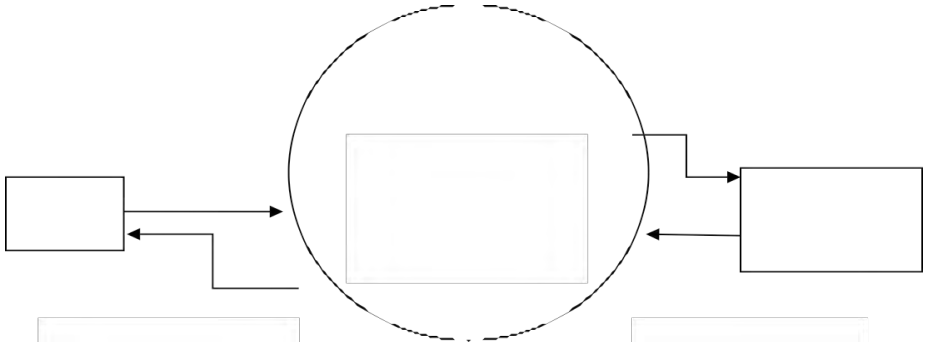
## 3.1 Project Undertaken:

**FLOWCHART**



*reply* *Request*



*(Acknowledgement)*

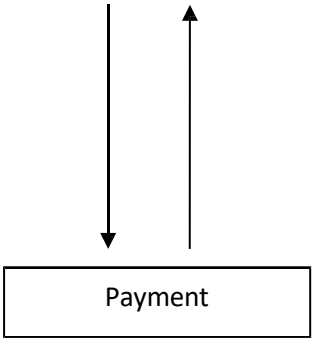



**Fig 3.3**

## PROJECT OVERVIEW

Aura is a comprehensive e-commerce platform tailored for a jewelry brand, offering an array of exquisite pieces for online browsing and purchase. The website prioritizes user experience, featuring seamless navigation and a visually stunning interface. User authentication functionality empowers customers to create accounts, log in securely, and manage their profiles with ease. Users can explore the collection, add items to their cart, place orders, and conveniently track their order history.

The admin panel serves as a robust backend tool, granting administrators full control over user accounts, product management, and order tracking. Admins can effortlessly add new jewelry pieces, update existing product details, and monitor all customer orders in real-time.

Aura's frontend is meticulously crafted with React.js, ensuring a responsive and dynamic interface that adapts flawlessly to various devices. Meanwhile, the backend

leverages the power of Node.js and Express.js, with MongoDB serving as the database backbone for seamless data management.

Security is paramount, with authentication handled via JWT, guaranteeing secure access control and safeguarding sensitive user information. By focusing on efficiency, customer satisfaction, and profitability, Aura aims to elevate the online jewelry shopping experience to new heights.

## SCOPE OF THE PROJECT

1. **Website Development:**

- Design and develop an Jewelery website with a user-friendly interface, allowing customers to browse, search, and purchase items online.
- Implement responsive design to ensure compatibility across various devices and screen sizes.

2. **Product Catalog:**

- Create a comprehensive product catalog featuring a diverse range of accessories, including necklaces, hair clips, rings, and specialized jewelry also.
- Include detailed product descriptions, specifications, dimensions, and high-quality images for each item.

3. **Online Ordering & Payment:**

- Enable customers to add products to their shopping cart, proceed to checkout, and complete the purchase securely using various payment methods such as credit/debit cards, PayPal, and other online payment gateways.
- Implement SSL encryption to ensure secure transactions and protect customer data .

4. **User Accounts & Profiles:**

- Allow customers to create accounts, login, and manage their profiles, including order history, shipping addresses, and payment preferences.

- Implement password encryption and security measures to protect user accounts from unauthorized access.

**5. Search & Filter Functionality:**

- Incorporate robust search and filtering capabilities, allowing customers to easily find products based on categories, occasion, prices, ,design, and other relevant criteria.
- Implement auto complete suggestions and advanced search options to enhance the user experience.

**6. Shopping Cart & Checkout Process:**

- Develop a seamless shopping cart system where customers can view, edit, and remove items before proceeding to checkout.

- Streamline the checkout process with clear steps, including billing/shipping information, payment details, order summary, and confirmation.

**7. Order Management & Fulfillment:**

- Build an order management system to track and process orders efficiently, including order confirmation, shipment tracking, and delivery notifications.
- Integrate with third-party logistics providers for shipping and fulfillment, ensuring timely and accurate delivery of orders.

**8. Customer Support & Communication:**

- Provide multiple channels for customer support, including live chat, email, and phone support, to address inquiries, resolve issues, and provide assistance throughout the shopping experience.

- Implement automated order confirmation emails, shipping notifications, and customer feedback surveys to keep customers informed and engaged.

**9. Marketing & Promotions:**

- Implement marketing strategies to drive traffic and increase sales, including search engine optimization (SEO), social media marketing, email campaigns, and promotional offers.
- Integrate with analytics tools to track website performance, user behavior, and conversion rates, enabling data-driven decision-making and optimization.

**10. Legal & Compliance:**

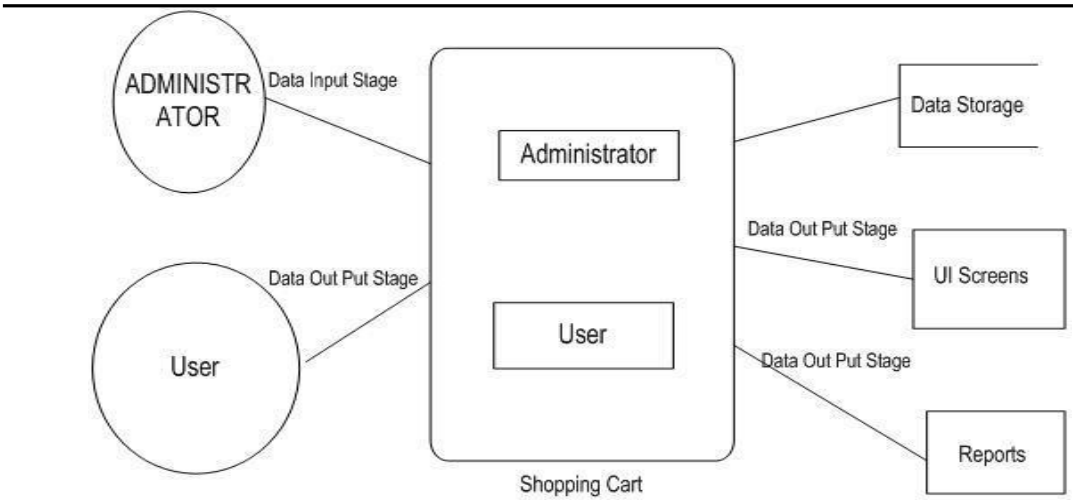
- Ensure compliance with relevant laws and regulations governing online commerce, including consumer protection, privacy, data security, and intellectual property rights.
- Display legal notices, terms of service, privacy policy, and return/refund policies prominently on the website to inform and protect customers.

**11. Continuous Improvement & Maintenance:**

- Plan for ongoing website maintenance, updates, and improvements to enhance performance, security, and user experience.
- Monitor customer feedback, website analytics, and market trends to identify opportunities for innovation and growth

## DFD of Aura Website:

**12. DFD :**




## 5.4 DATABASE DESIGN:

Database design is the management of information using a database paradigm. What data must be saved and how the various data items interact are determined by the database design that follows. Developer would start adjusting the data to the database model using this knowledge. Data classification and relationship discovery are key components of database design.

## Entities and Attributes:

### 1. Product:

- **product_id (Primary Key):** Unique identifier for each product.
- **name:** Name of the product.
- **description:** Description of the product.
- **price:** Price of the product.
- **category:** Category of the product (e.g., headphones, earbuds, speakers).
- **image_url:** URL of the product image.

### 2. Customer:

- **customer_id (Primary Key):** Unique identifier for each customer.
- **name:** Name of the customer.
- **email:** Email address of the customer.
- **address:** Address of the customer.
- **phone:** Phone number of the customer.
- **password:** Encrypted password for customer account.

### 3. Order:

- **order_id (Primary Key):** Unique identifier for each order.
- **order_date:** Date of the order placement.
- **total_amount:** Total amount of the order.
- **status:** Status of the order (e.g., processing, shipped, delivered).
- **customer_id (Foreign Key):** References the customer who placed the order.

## Database Constraints:

- For the Product entity, the product_id should be unique, and the category attribute should be selected from a predefined list of categories.
- For the Customer entity, the customer_id should be unique, and the email attribute

should be unique to ensure no duplicate accounts.

- For the Order entity, the order_id should be unique, and the status attribute should have predefined values (e.g., processing, shipped, delivered).

## Database Tables:

Based on the above entities and attributes, you would create the following database tables:

**1. Product table with columns:** product_id, name, description, price, stock, brand, category, image_url.

**2. Customer table with columns**: customer_id, name, email, address, phone, password.

**3. Order table with columns:** order_id, order_date, total_amount, status, customer_id.

Ensure to set the appropriate primary keys, foreign keys, and constraints to maintain data integrity and optimize database performance. This database design will serve as the backbone for your e-commerce website, enabling you to efficiently manage products, customer data, orders, and review.

# CHAPTER-6

# RESULT AND DISCUSSIONS

## 6.1 FEATURES OF WEBSITE

- **Role-Based Access:** Implementing role-based access control ensures that different users (e.g., customers, administrators) have appropriate permissions and privileges within the system.
- **JWT Authentication:** JWT (JSON Web Token) authentication enhances security by providing a secure method for transmitting information between parties as a JSON object. This ensures that users are securely authenticated when accessing the system.
- **Search Feature:** A robust search feature enables users to quickly find Aura based on specific criteria such as destination, price range, or features.
- **Category-Based Search:** Users can search for Aura based on predefined categories such as including new, sale, jewelry, accessories and piercing as well.
- **Store Locator:** Users can easily locate online stores of Aura through the website, facilitating convenient access to the brand's offerings.
- **Password Recovery Mechanism:** Aura incorporates a user-friendly forgot password functionality, enabling users to reset their passwords securely in case they forget or need to update them.
- **Exclusive Deals Updates:** Subscribers receive timely updates on the latest and best deals via whatsapp messages or push notifications, ensuring they never miss out on exciting offers and promotions from Aura.

5 **SEARCH COMPONENT -** The search component is a vital feature of Aura's website, designed to enhance user experience by enabling quick and efficient discovery of products. This sophisticated tool allows users to search for jewelry pieces and accessories based on specific criteria, ensuring they can find exactly what they are looking for with ease. Key functionalities include keyword search, category-based search for filtering results by predefined categories like new arrivals, items on sale, jewelry, accessories, and piercings, and advanced filters for

refining searches by price range, material, gemstone type, and more. Real-time search suggestions help users discover popular and trending items as they type, and the store locator feature integrates seamlessly to help users find the nearest Aura online stores. Overall, the search component aims to provide a seamless and intuitive user experience, enhancing customer satisfaction and streamlining the online shopping process.

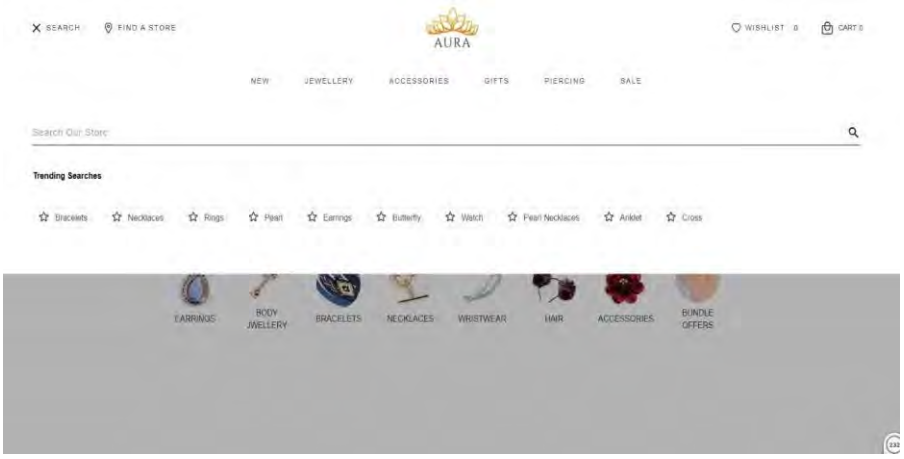



**Fig 4.3**

## LOGIN PAGE:

The login page is used to authenticate the identity of the user whose details are stored in the database . If the username and password match the database record then it shows a login successful message box otherwise it shows an error.

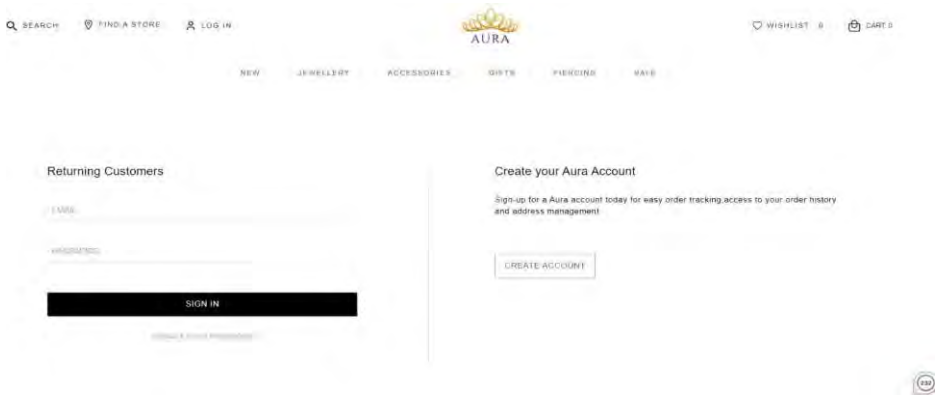



**Fig 4.4**

## REGISTER PAGE :

The register page takes the Name, Email and password as the input and passes it to the database. Also, a validation has been applied where the input in password and confirm password textbox should match with each other.

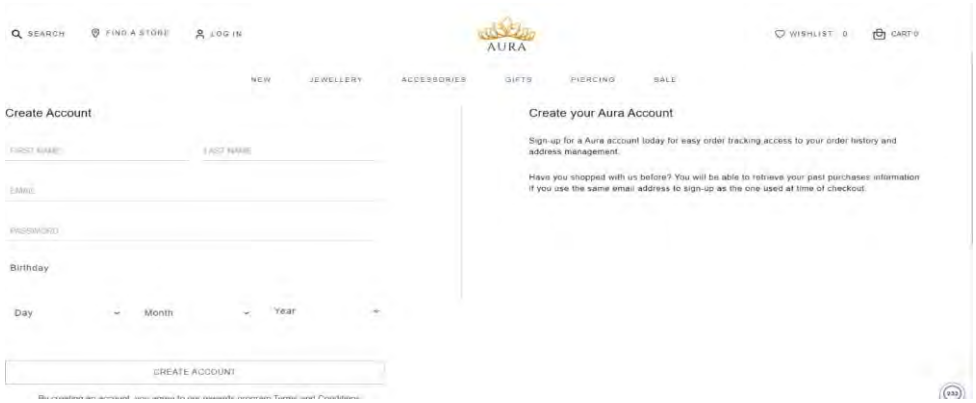



**Fig 4.5**

## FORGOT PASSWORD PAGE :

The forgot password page is designed to help users securely reset their passwords if they have forgotten them. This page prompts users to enter their registered email address. Once submitted, an email with a password reset link is sent to the user. By clicking the link, the user is redirected to a secure page where they can set a new password.

6

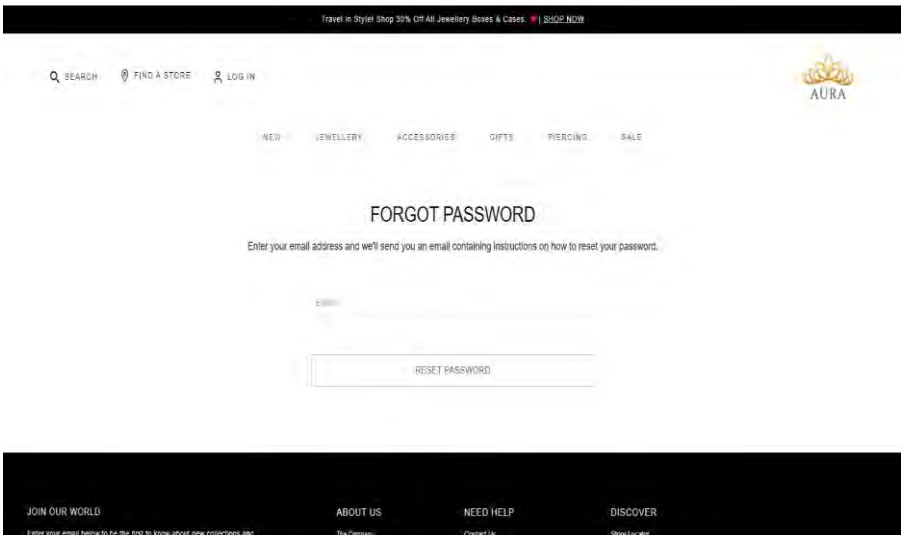


**Fig 4.6**

## STORE LOCATOR :

The store locator section of Aura's website helps users find the nearest Aura retail locations. This feature allows customers to enter their address or use their current location to display nearby stores on an interactive map. Each store listing includes essential details such as address, contact information, hours of operation, and available services. The store locator ensures that users can easily find and visit physical Aura stores, providing a convenient bridge between online browsing and in-person shopping.

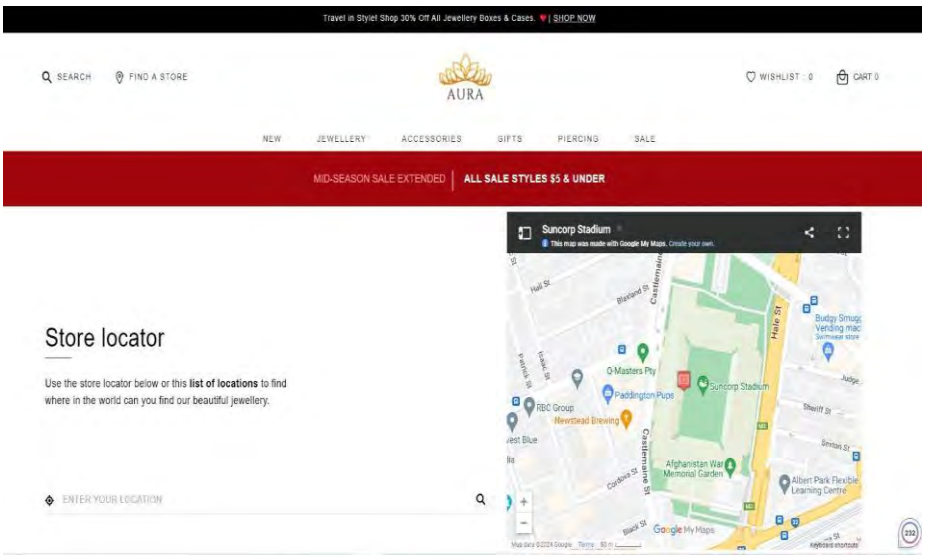



**Fig 4.7**

## PRODUCTS:

Aura's products section showcases a diverse range of exquisite jewelry pieces and accessories, each presented with high-quality images, detailed descriptions, pricing, and customer reviews. Users can explore various categories, filter products based on their preferences, and access detailed information to make informed purchasing decisions.

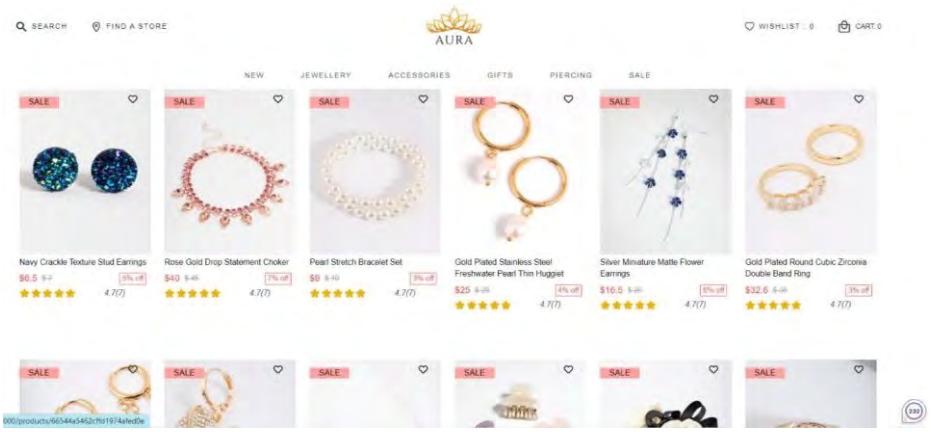



**Fig 4.8**

## CARTS:

The cart functionality allows users to conveniently add selected items for purchase. Users can review their cart to see item quantities, prices, and subtotals, and make adjustments as needed. The cart section provides an easy-to-use interface for updating product quantities, removing items, and proceeding to checkout. This seamless integration between product browsing and the cart enhances the overall shopping experience, making it simple and enjoyable for customers to purchase their favorite pieces from Aura.

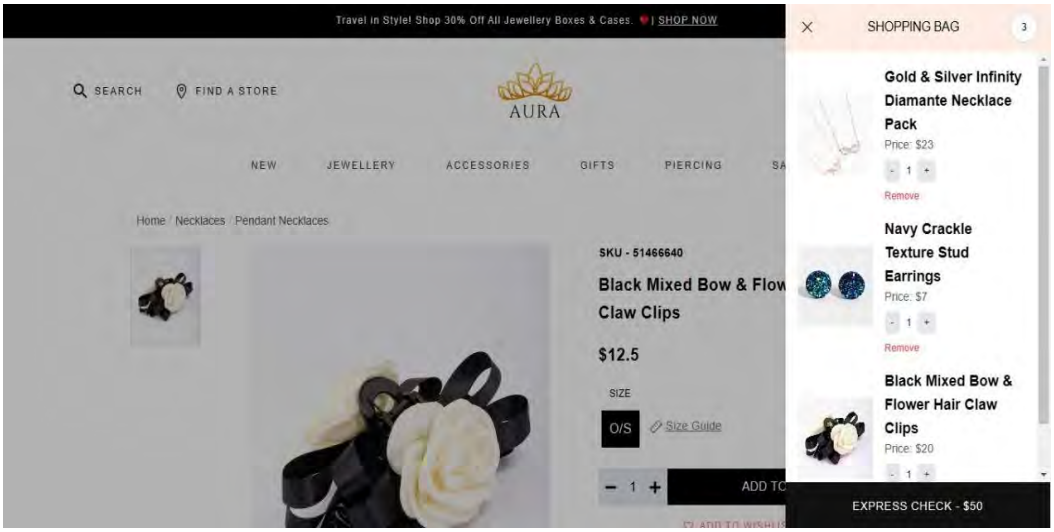


**Fig 4.9**

## WISHLISTS:

The wishlist feature on Aura's e-commerce platform provides users with a personalized space to curate a collection of desired jewelry pieces and accessories. Users can easily add items to their wishlist while browsing the product catalog, allowing them to keep track products they intend to purchase or save for later consideration. The wishlist serves as reference for users to revisit their favorite items without the need to search or browse through the entire catalog again.

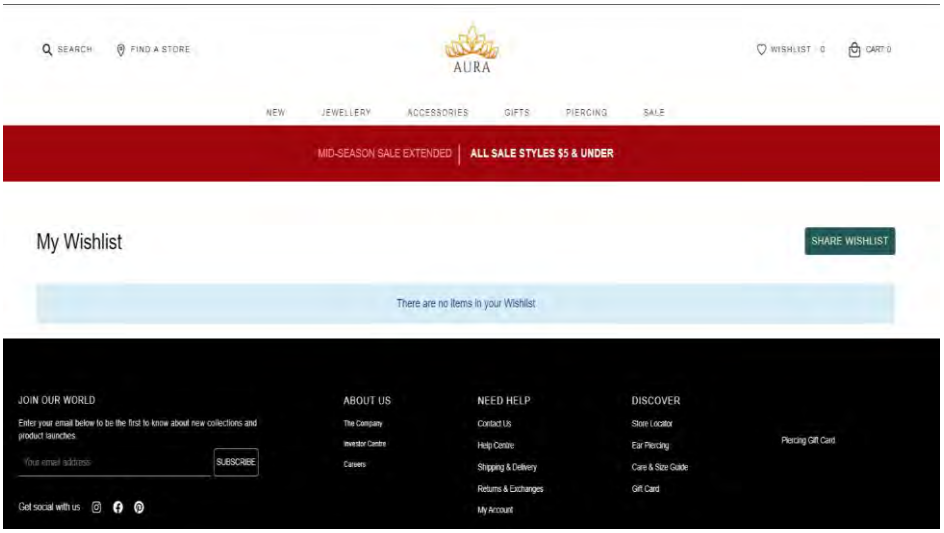



**Fig 4.10**

## PRODUCT SCREEN:

The product screen section of Aura's website provides users with a detailed view of individual jewelry pieces and accessories. This section includes high-quality images, product descriptions, pricing, and available options such as size and color. Users can also see customer reviews and ratings to help inform their purchase decisions. Additionally, the product screen offers a quick add-to-cart button, and users can view related products or recommendations.

This section is designed to provide all the necessary information in a clear and visually appealing format, enhancing the overall shopping experience and aiding customers in making informed purchasing decisions.




**Fig: 4.11**

## PLACE ORDER SECTION:

The place order section is a crucial component of Aura's e-commerce platform, designed to provide a seamless and efficient checkout experience for users. Once users have added their desired jewelry pieces and accessories to their cart, they can proceed to the place order section to finalize their purchase. This section includes several key steps to ensure a smooth transaction.

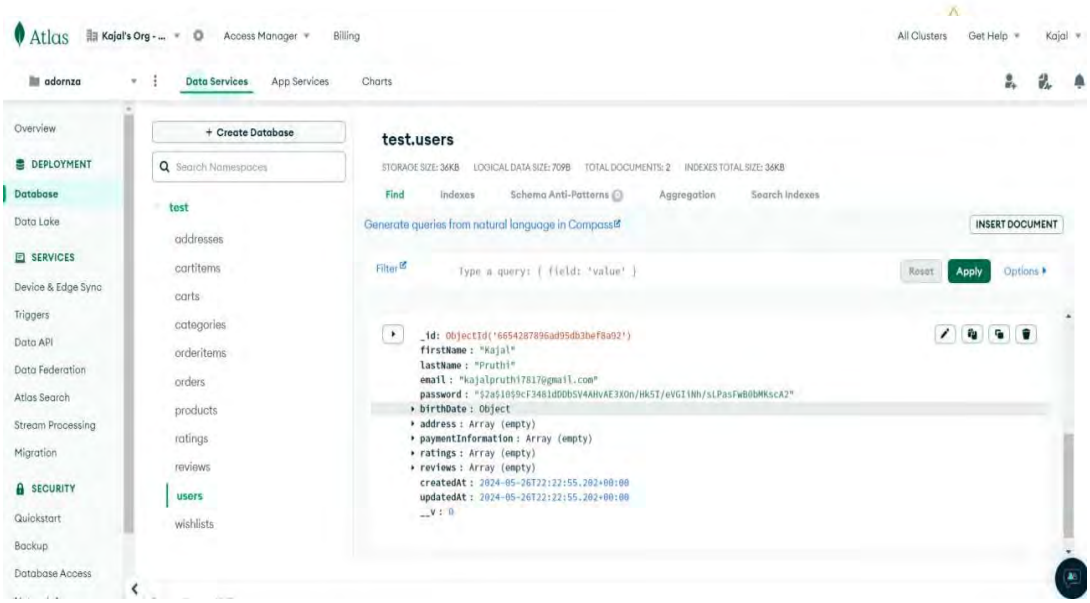



**Fig: 4.12**

## DATABASE :

Aura's database serves as the foundation of its e-commerce platform, leveraging MongoDB to efficiently manage and store critical data. Within this robust database, user information, product details, orders, and inventory are meticulously organized and maintained. This infrastructure ensures the secure and reliable storage of user credentials, enabling smooth authentication processes and safeguarding sensitive information. Additionally, the database facilitates dynamic product listings, allowing for seamless updates and modifications to the product catalog. Real-time inventory updates ensure accurate stock availability, optimizing the shopping experience for users. MongoDB's flexibility and scalability empower Aura to adapt to evolving business needs and accommodate growth while upholding data integrity across the platform.

## USERS:

**Fig: 4.13**

## PRODUCTS:

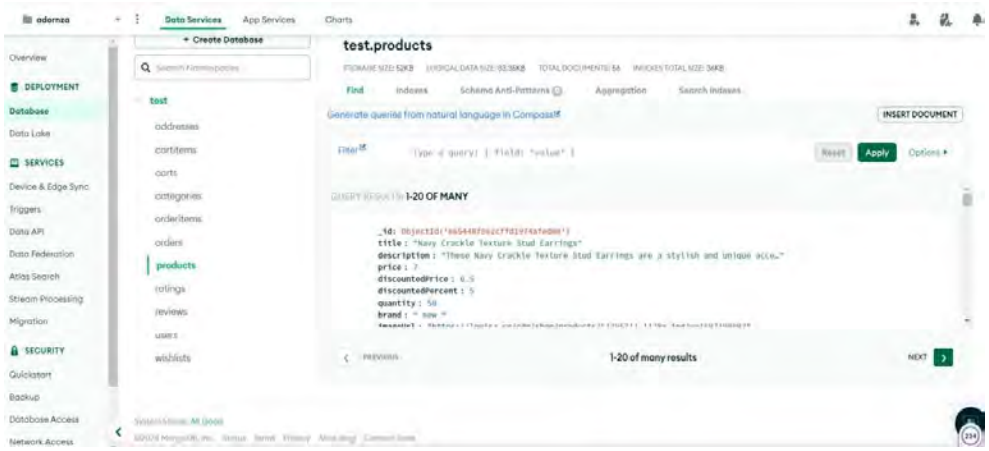



**Fig: 4.14**

## CATEGORIES:

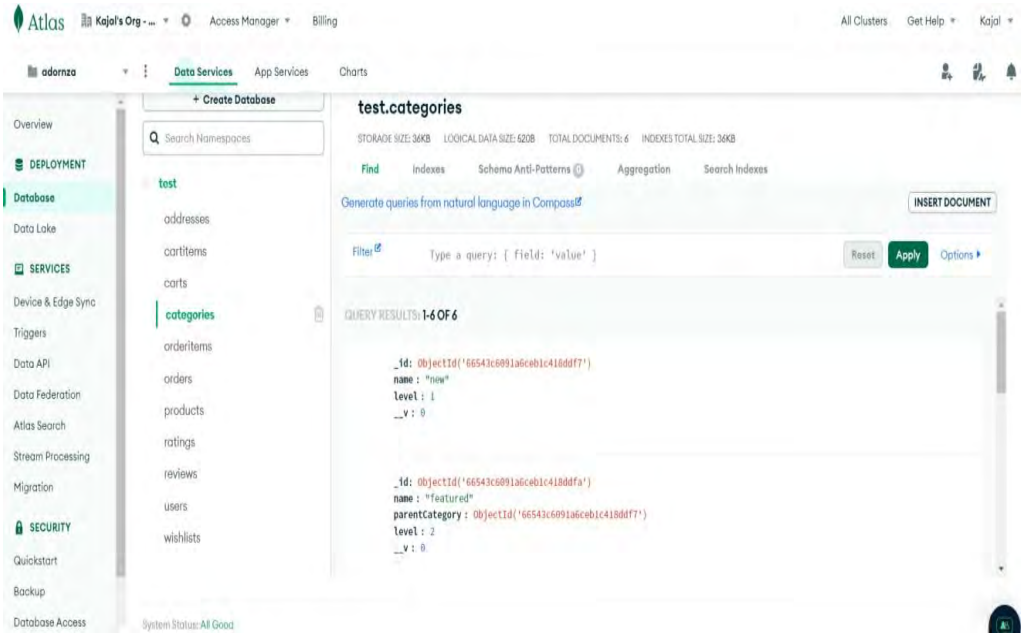



**Fig: 4.15**

## ORDERS :

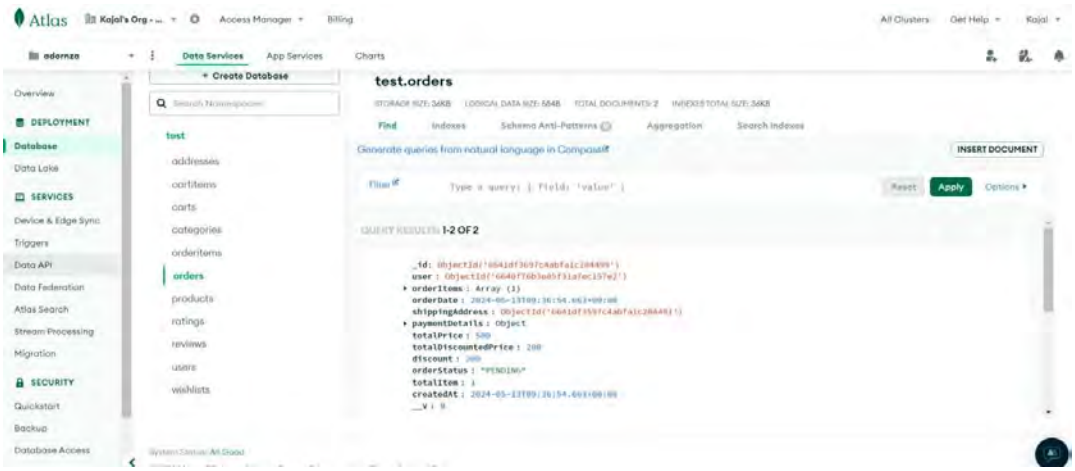



**Fig: 4.16**

## CARTS:

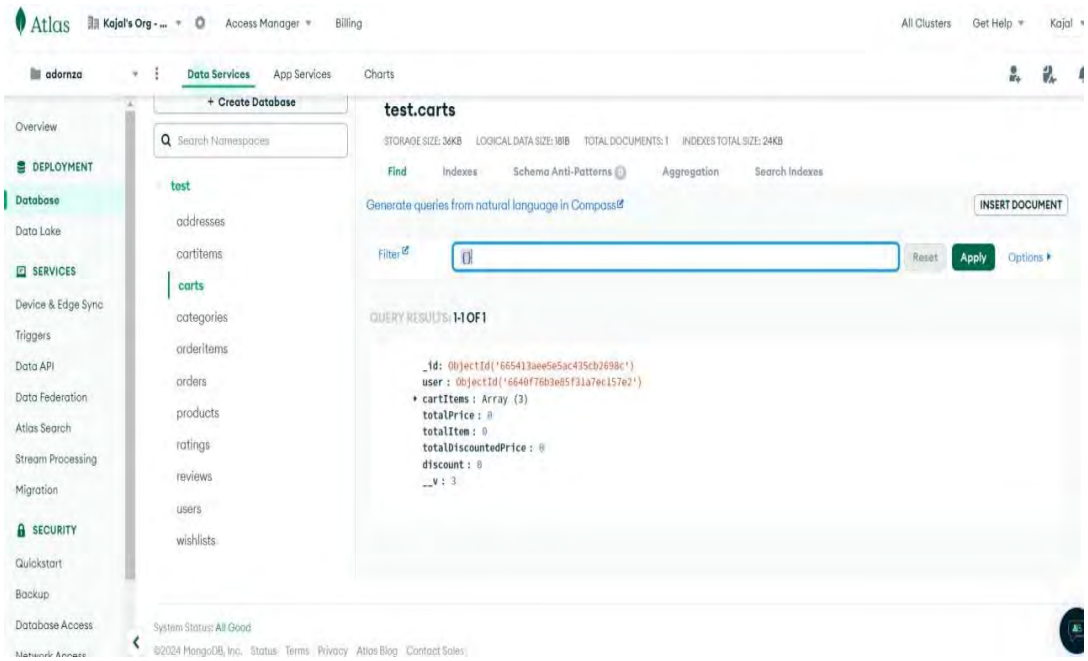



**Fig: 4.17**

## ADDRESSES :

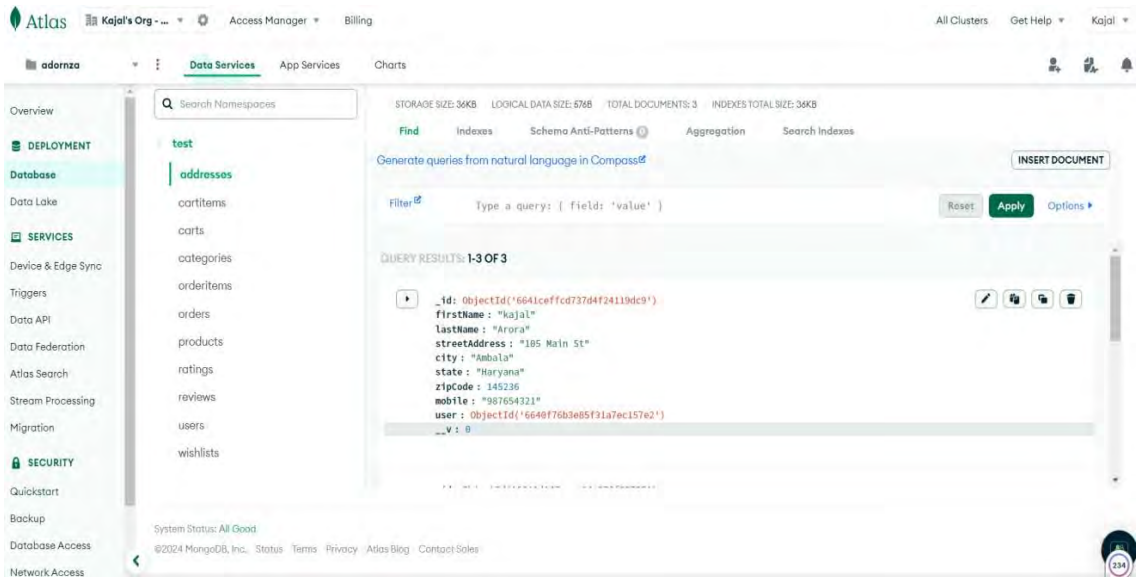
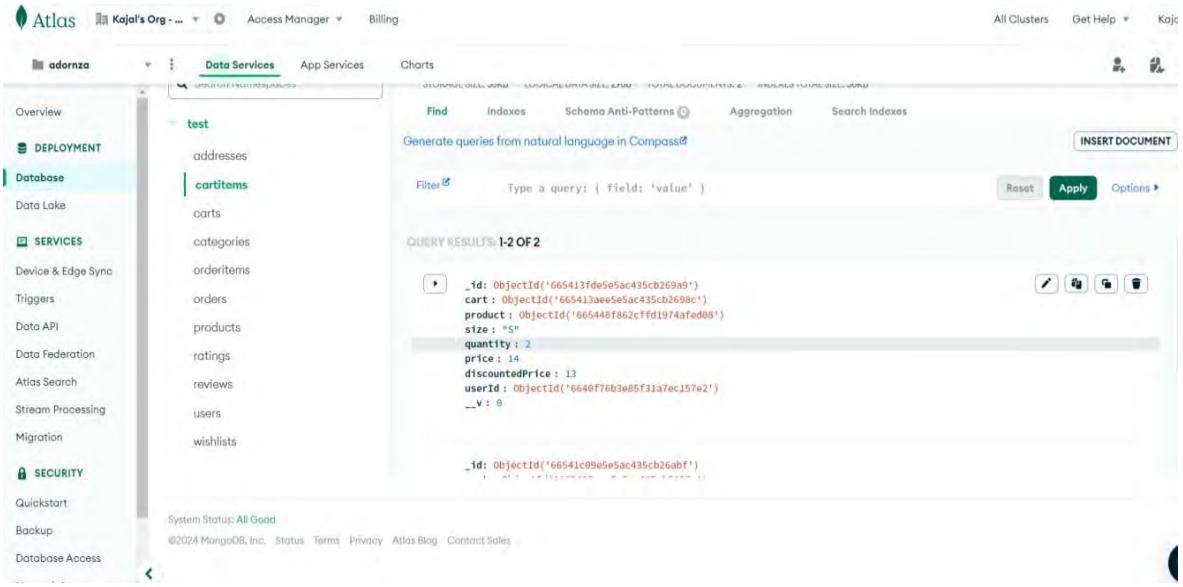



**Fig: 4.18**

## CART ITEMS :




8

**Fig: 4.19**

# CODING SCREENSHOTS: FRONTEND:

## ROUTES - HEADER

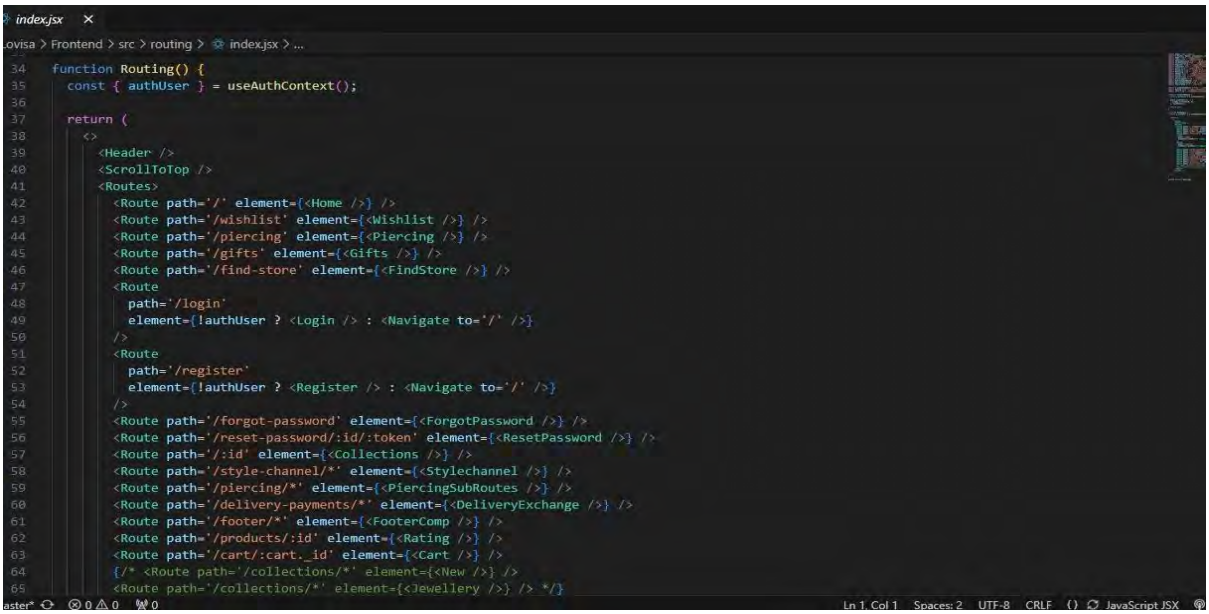



**Fig: 4.20**

## ROUTES - FOOTER

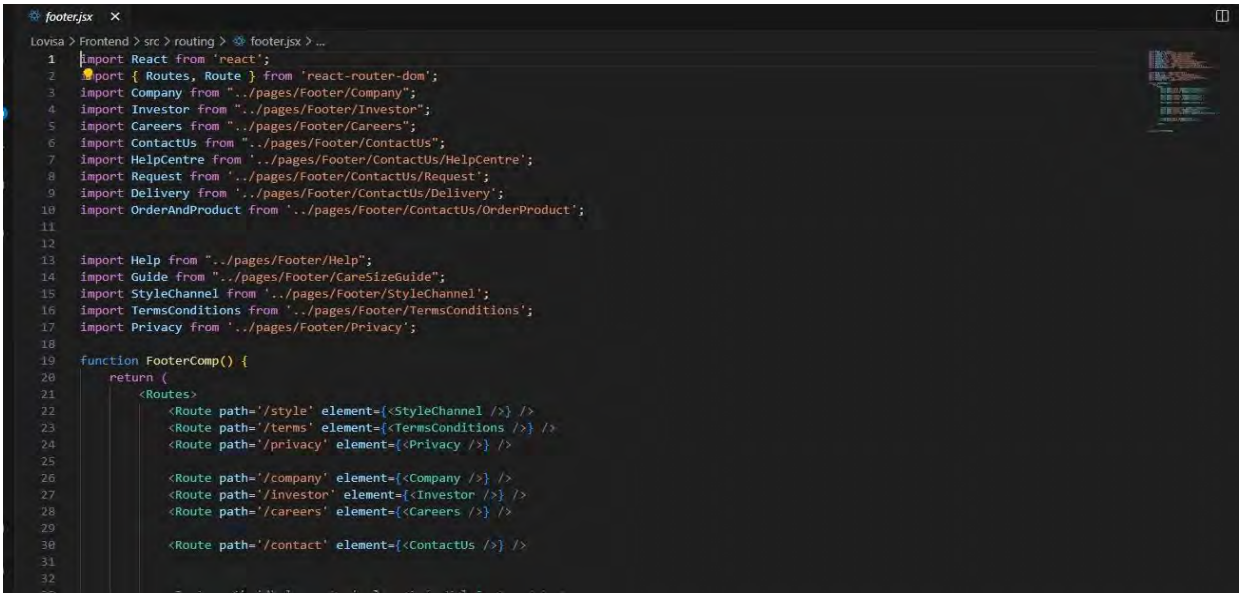



**Fig: 4.21**

**HEADER:**

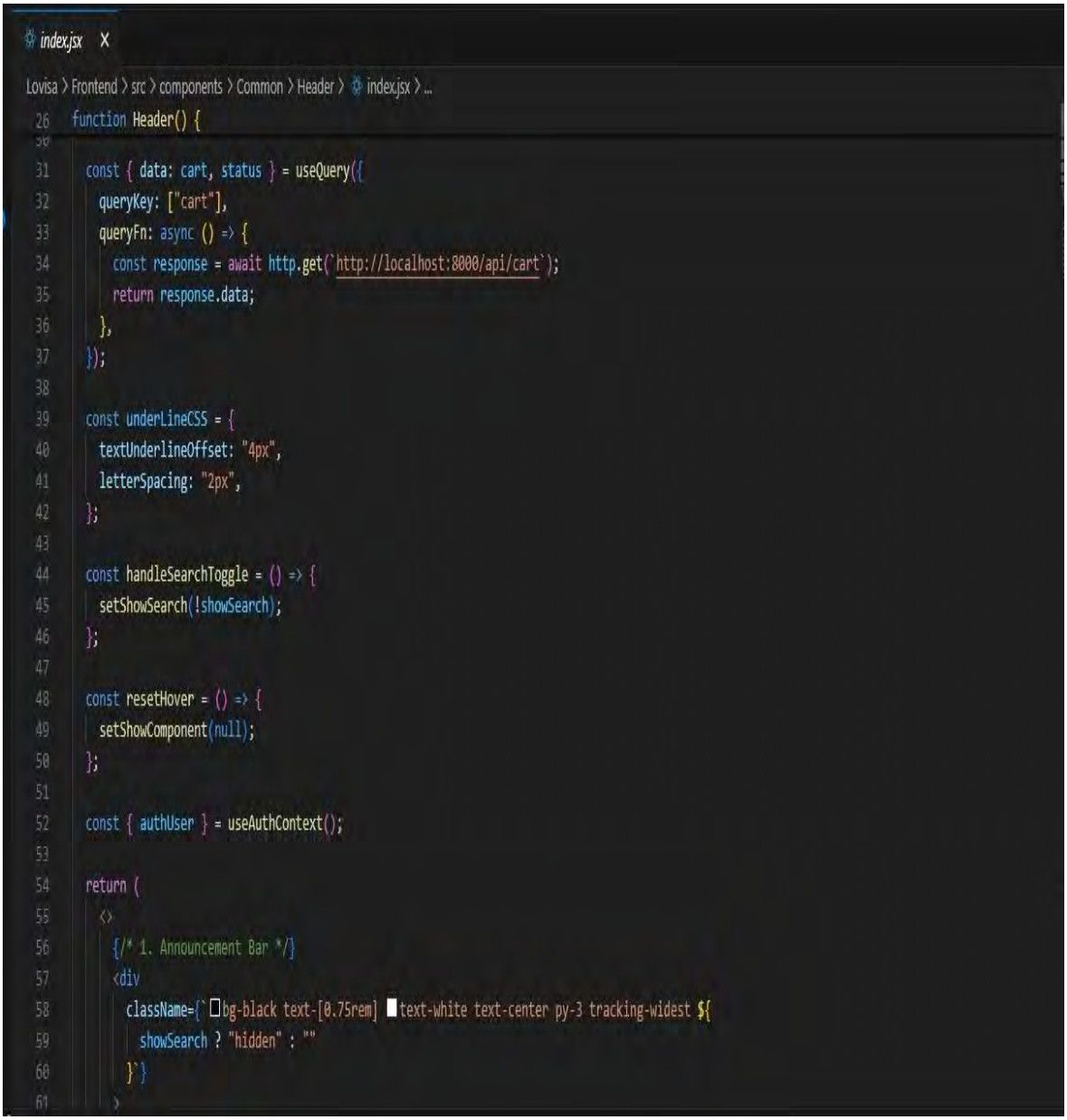



**Fig: 4.22**

**REDUX – STORE:**

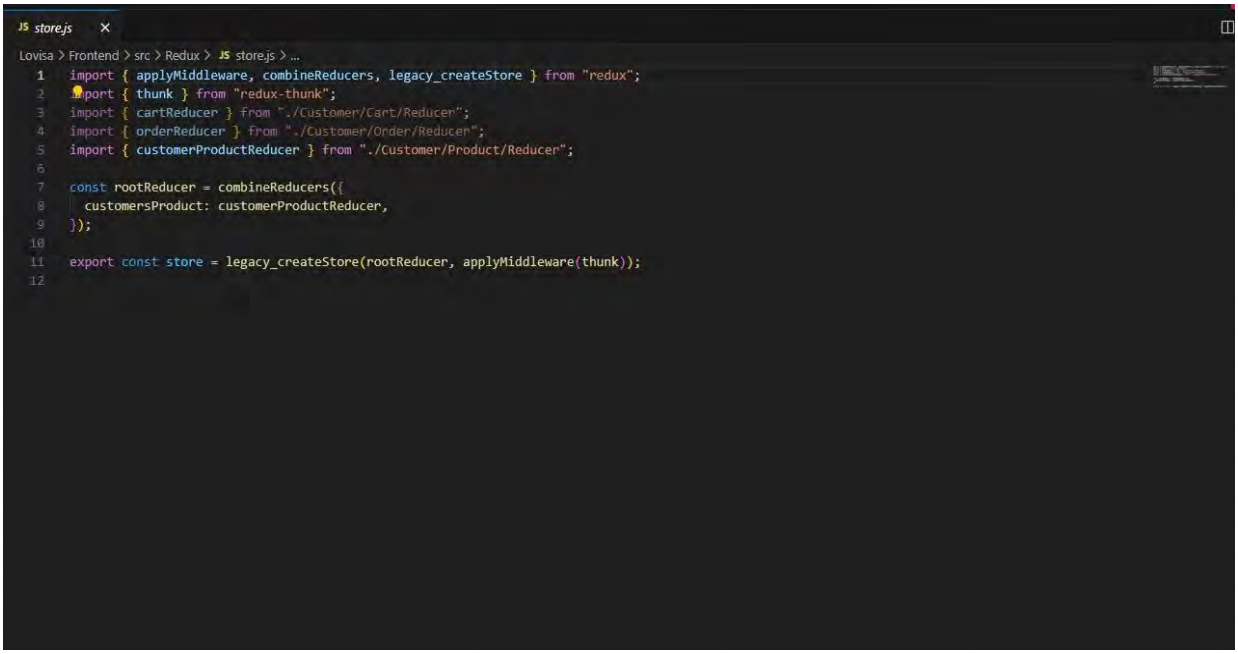



**Fig: 4.23**

**LOGIN :**

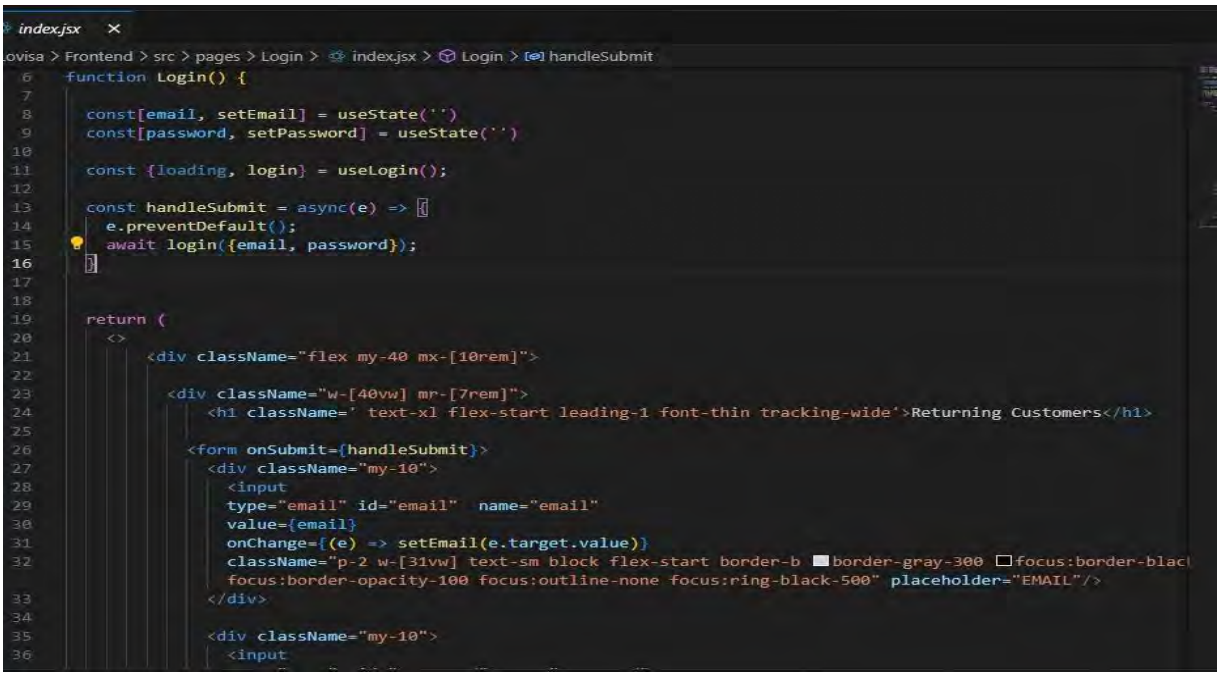
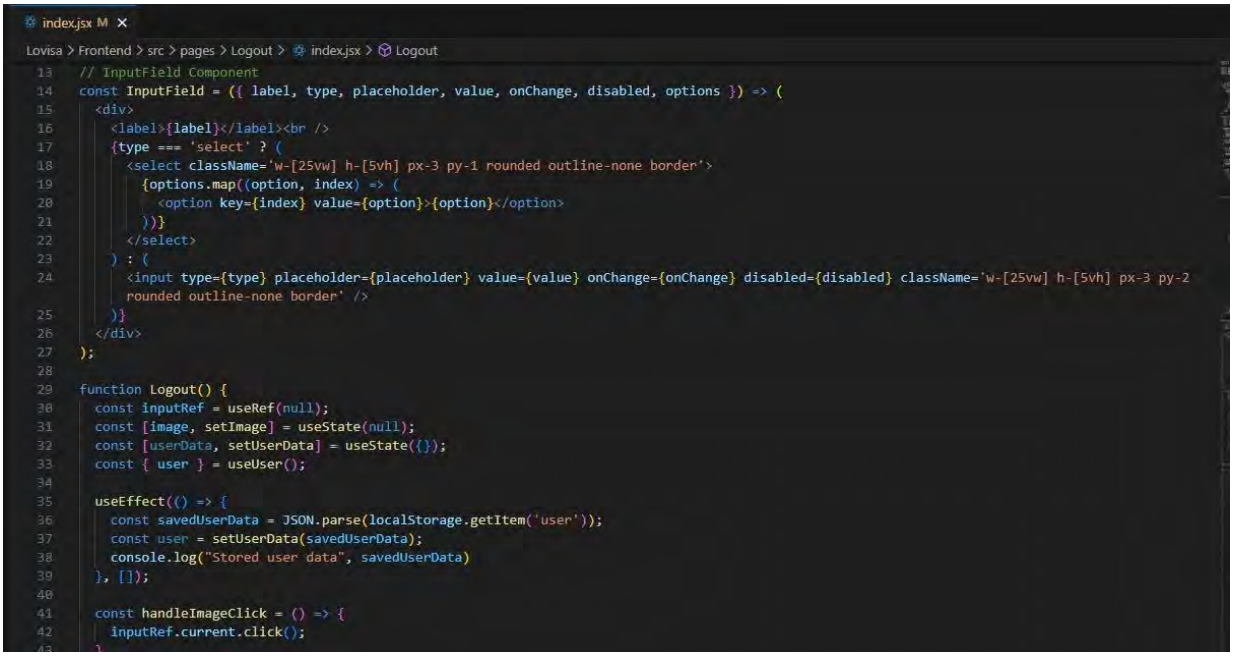


**Fig: 4.24**

## LOGOUT:



```
index.jsx M
Lovisa > Frontend > src > pages > Logout > index.jsx > Logout
// InputField Component
const InputField = ({ label, type, placeholder, value, onChange, disabled, options }) => (
  <div>
    <label>{label}</label><br />
    {type === 'select' ? (
      <select className='w-[25vw] h-[5vh] px-3 py-1 rounded outline-none border'>
        {options.map((option, index) => (
          <option key={index} value={option}>{option}</option>
        ))}
      </select>
    ) : (
      <input type={type} placeholder={placeholder} value={value} onChange={onChange} disabled={disabled} className='w-[25vw] h-[5vh] px-3 py-2
      rounded outline-none border' />
    )}
  </div>
);

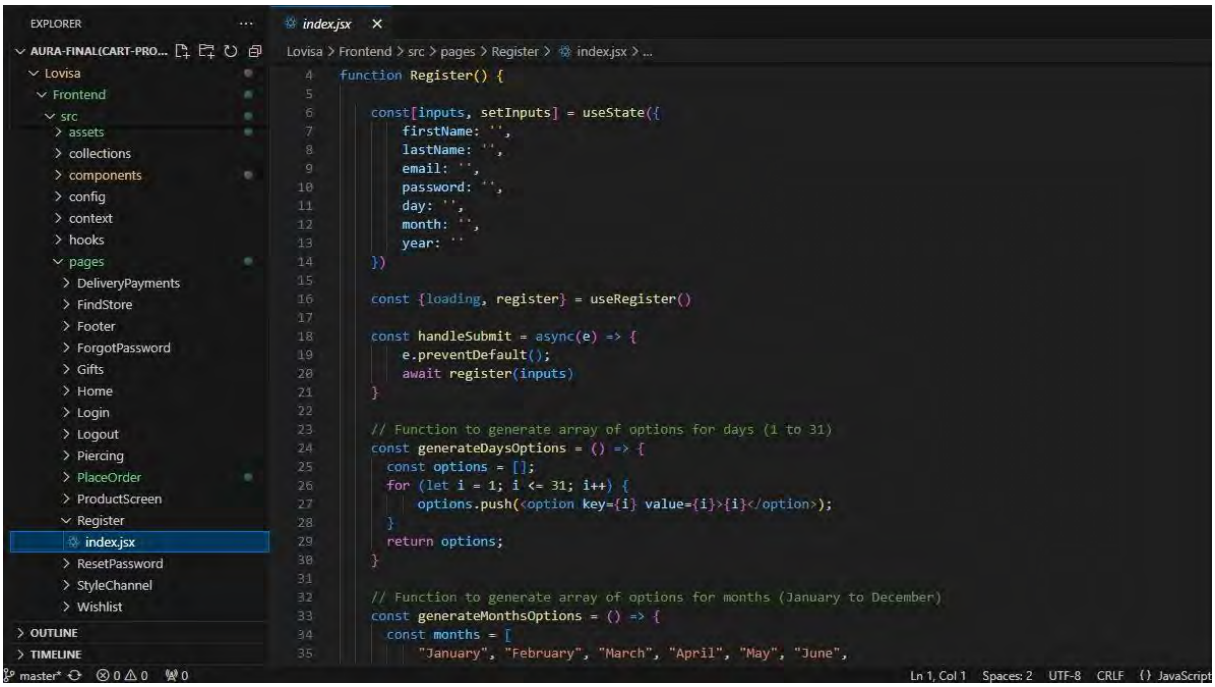
function Logout() {
  const inputRef = useRef(null);
  const [image, setImage] = useState(null);
  const [userData, setUserData] = useState({});
  const { user } = useUser();

  useEffect(() => {
    const savedUserData = JSON.parse(localStorage.getItem('user'));
    const user = setUserData(savedUserData);
    console.log("Stored user data", savedUserData)
  }, []);

  const handleImageClick = () => {
    inputRef.current.click();
```

**Fig: 4.25**

REGISTER:



```
EXPLORER
AURA-FINAL(CART-PRO...
Lovisa
Frontend
src
assets
collections
components
config
context
hooks
pages
DeliveryPayments
FindStore
Footer
ForgotPassword
Gifts
Home
Login
Logout
Piercing
PlaceOrder
ProductScreen
Register
index.jsx
ResetPassword
StyleChannel
Wishlist
OUTLINE
TIMELINE
index.jsx
Lovisa > Frontend > src > pages > Register > index.jsx > ...
function Register() {

    const[inputs, setInputs] = useState({
        firstName: '',
        lastName: '',
        email: '',
        password: '',
        day: '',
        month: '',
        year: ''
    })

    const {loading, register} = useRegister()

    const handleSubmit = async(e) => {
        e.preventDefault();
        await register(inputs)
    }

    // Function to generate array of options for days (1 to 31)
    const generateDaysOptions = () => {
      const options = [];
      for (let i = 1; i <= 31; i++) {
          options.push(<option key={i} value={i}>{i}</option>);
      }
      return options;
    }

    // Function to generate array of options for months (January to December)
    const generateMonthsOptions = () => {
      const months = [
          "January", "February", "March", "April", "May", "June",
master* 0 0 0
Ln 1, Col 1  Spaces: 2  UTF-8  CRLF  {} JavaScript
```

**Fig: 4.26**

**PRODUCT SCREEN:**

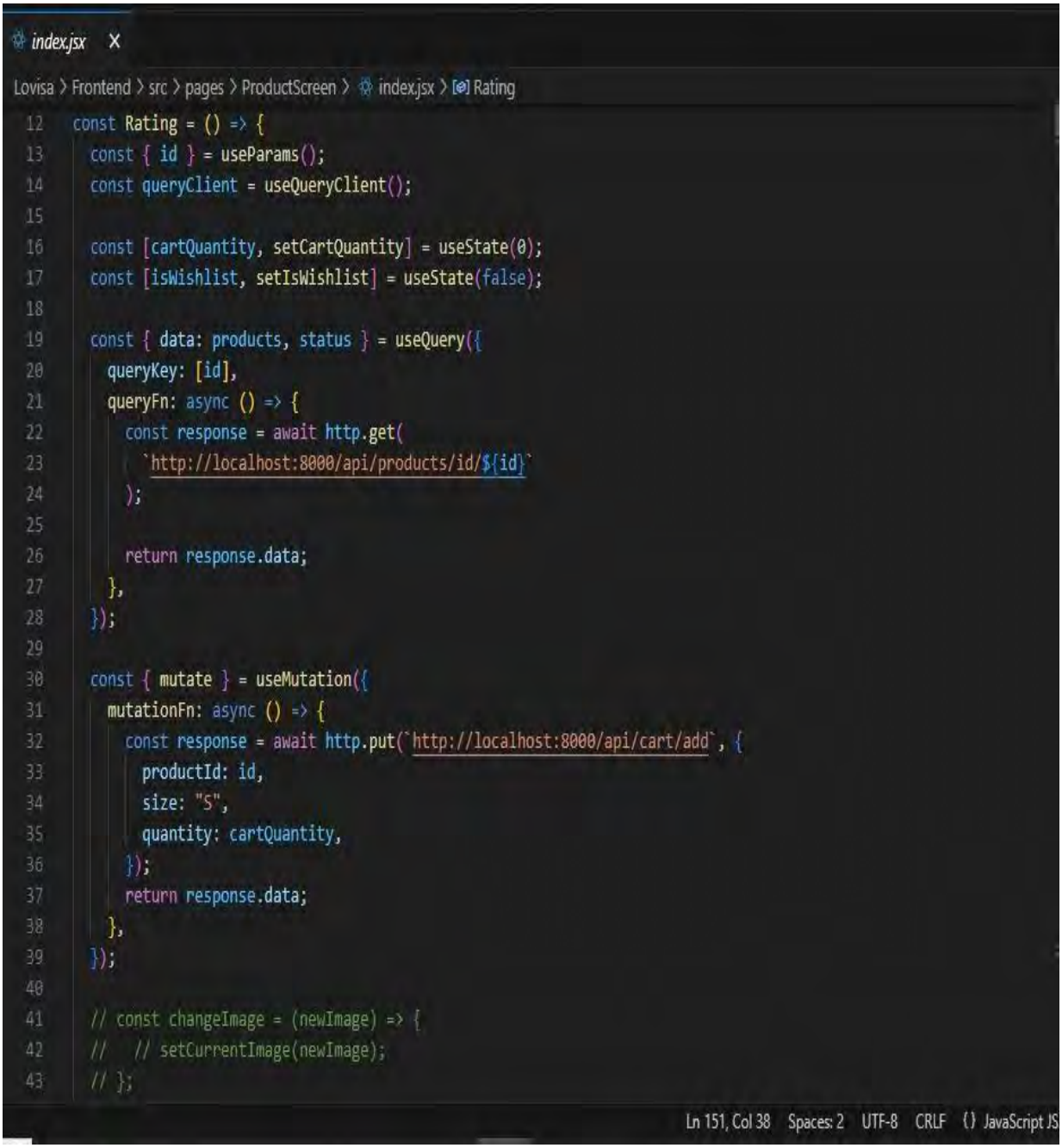



**Fig: 4.27**

**RESET PASSWORD:**

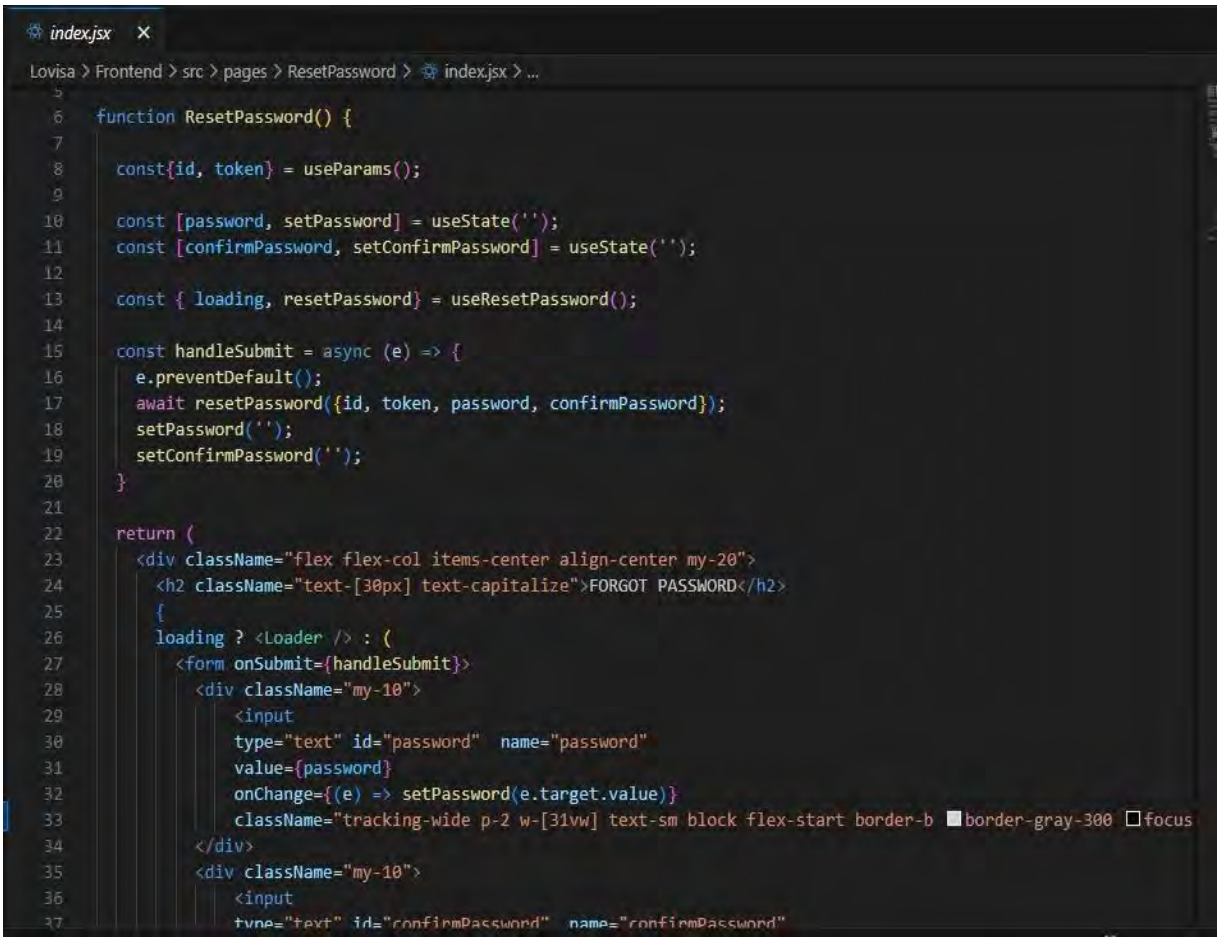



**Fig: 4.28**

**PLACE ORDER:**

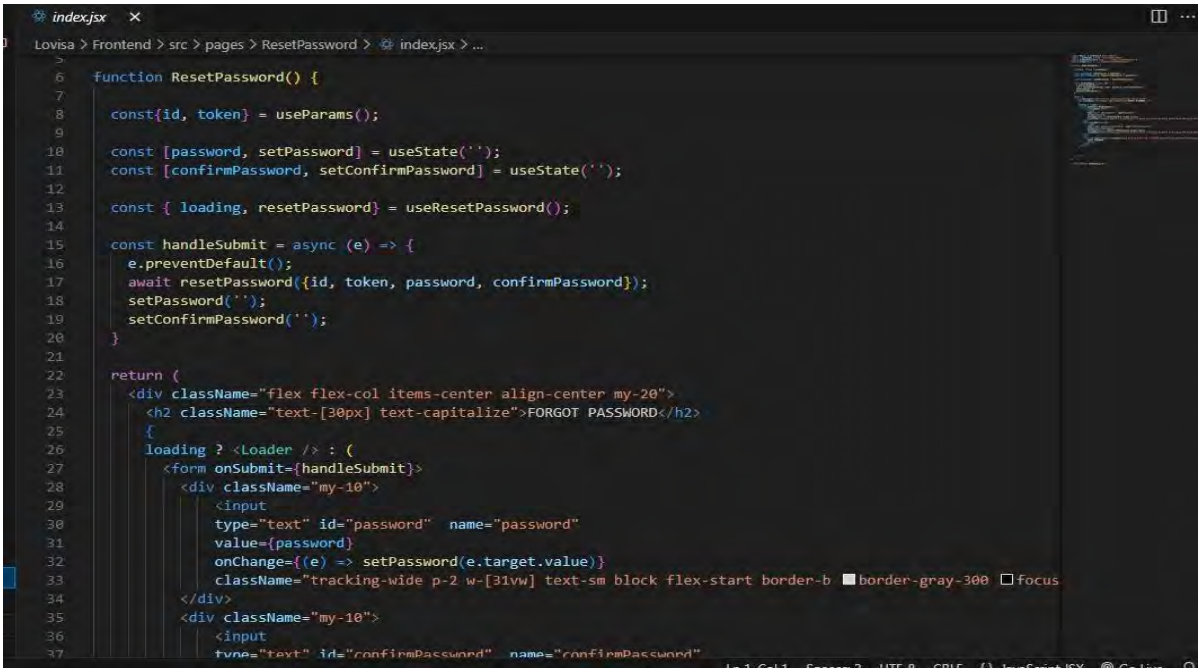



**Fig: 4.29**

**CART:**

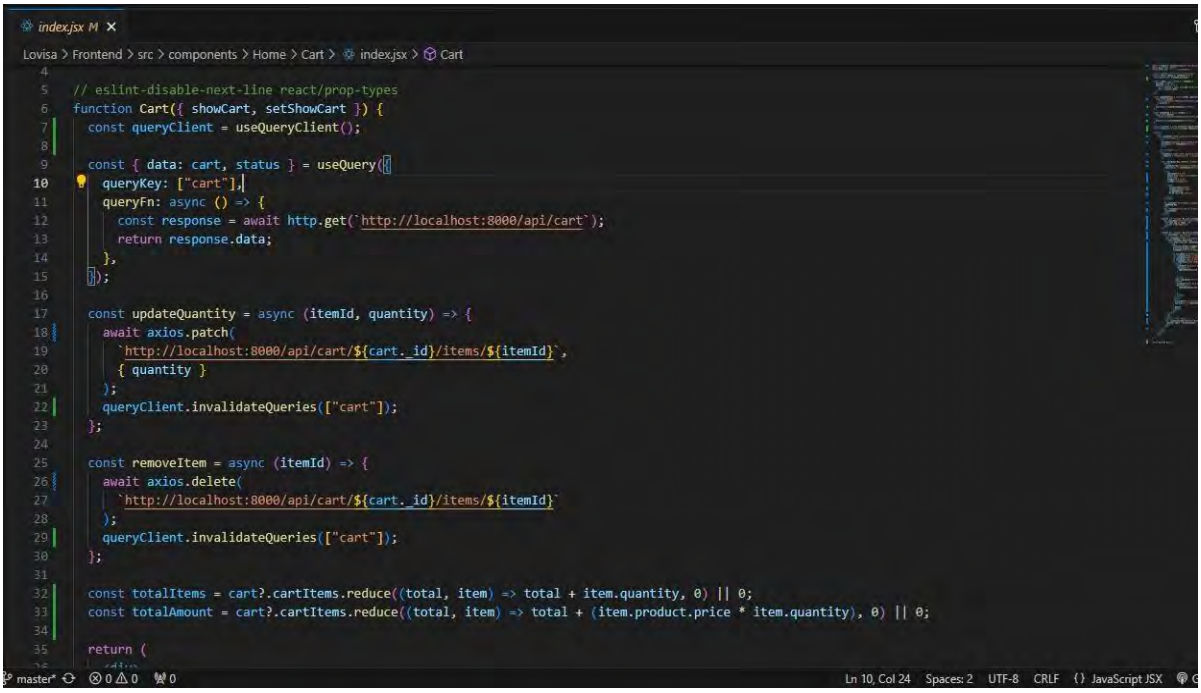


**Fig: 4.30**

## AUTH CONTEXT:

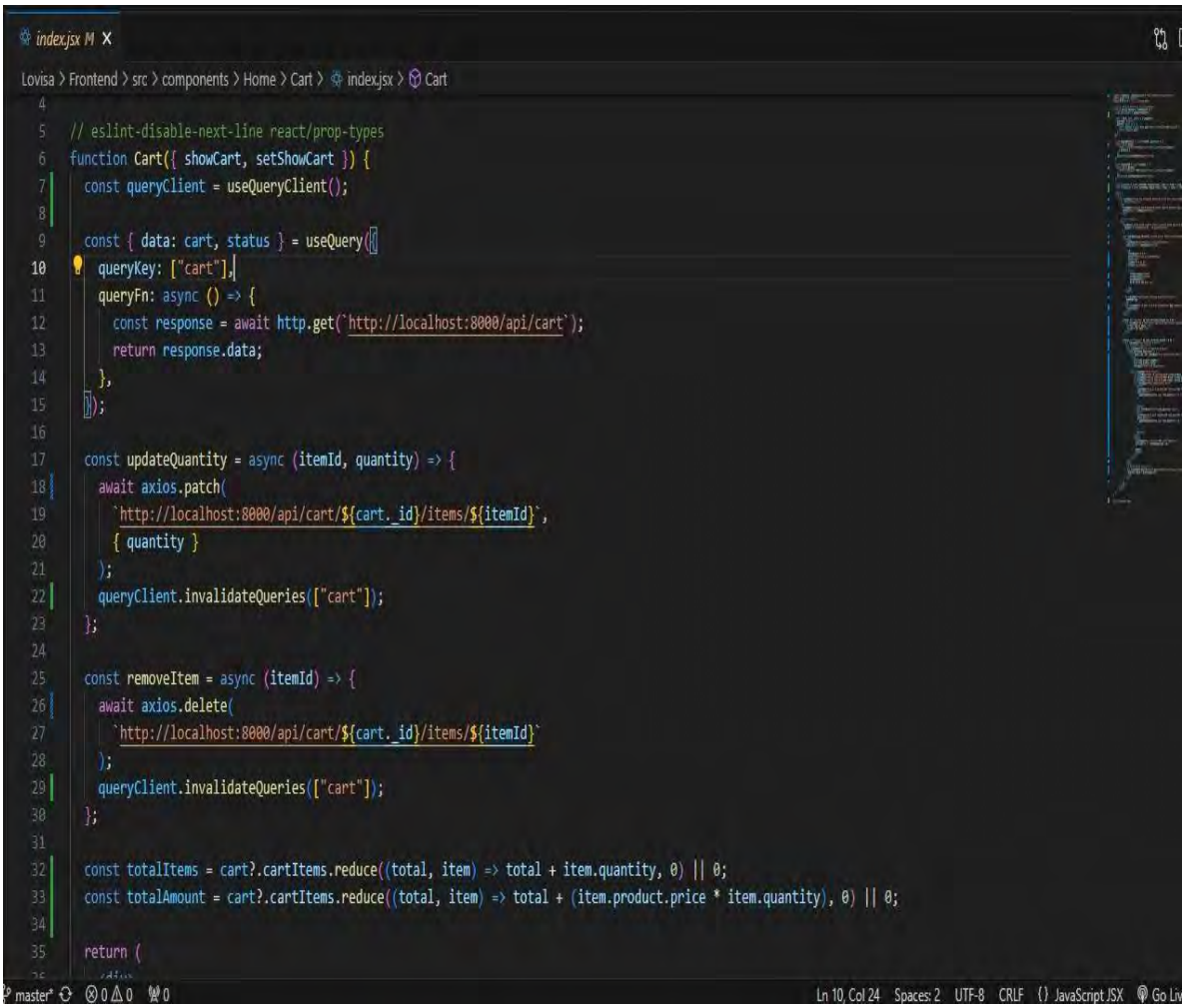
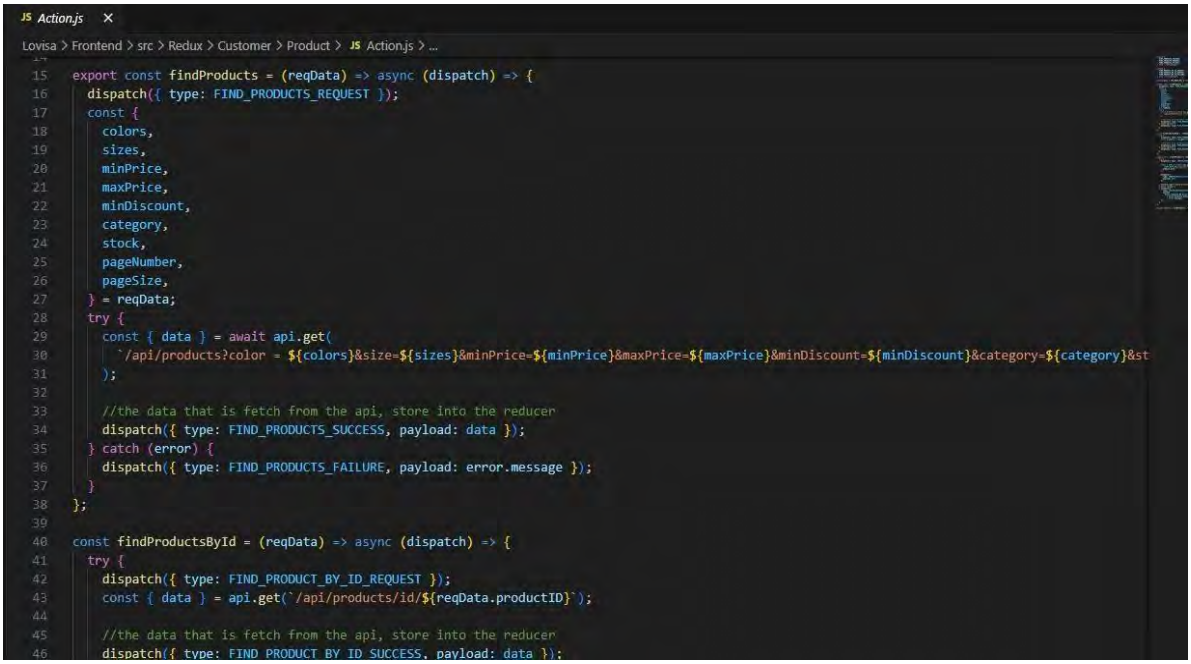



**Fig: 4.31**

## PRODUCT ACTIONS:



```
Action.js
Lovisa > Frontend > src > Redux > Customer > Product > Action.js > ...
export const findProducts = (reqData) => async (dispatch) => {
  dispatch({ type: FIND_PRODUCTS_REQUEST });
  const {
    colors,
    sizes,
    minPrice,
    maxPrice,
    minDiscount,
    category,
    stock,
    pageNumber,
    pageSize,
  } = reqData;
  try {
    const { data } = await api.get(
      `/api/products?color = ${colors}&size=${sizes}&minPrice=${minPrice}&maxPrice=${maxPrice}&minDiscount=${minDiscount}&category=${category}&st
    );

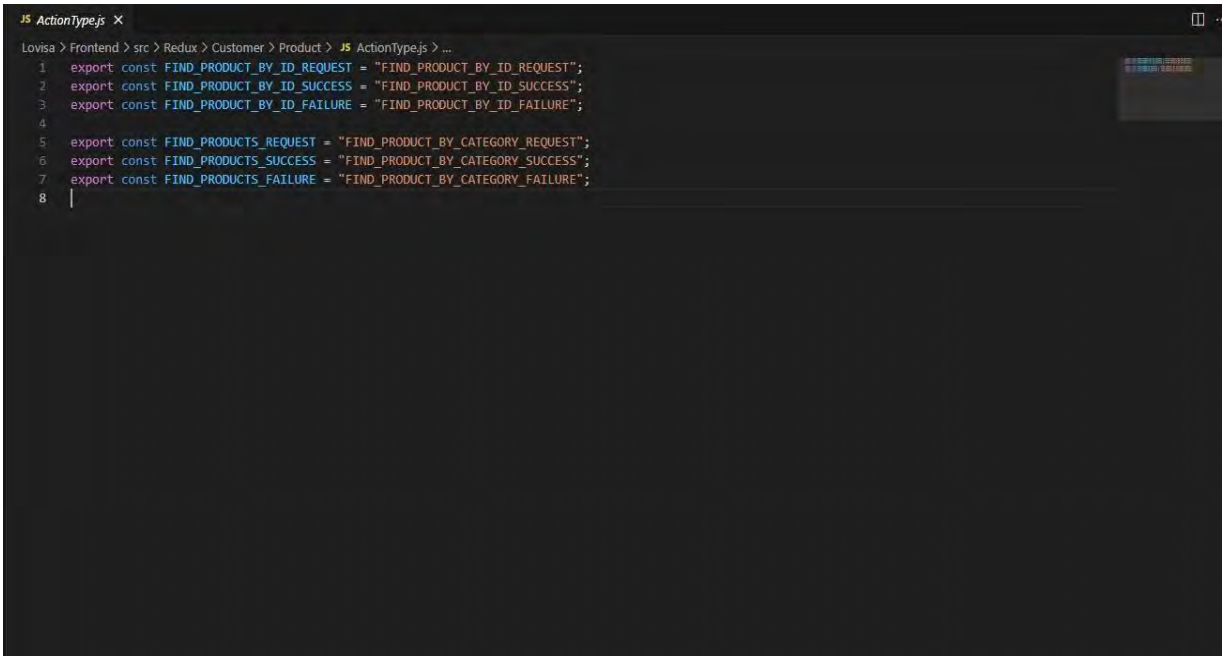
    //the data that is fetch from the api, store into the reducer
    dispatch({ type: FIND_PRODUCTS_SUCCESS, payload: data });
  } catch (error) {
    dispatch({ type: FIND_PRODUCTS_FAILURE, payload: error.message });
  }
};

const findProductsById = (reqData) => async (dispatch) => {
  try {
    dispatch({ type: FIND_PRODUCT_BY_ID_REQUEST });
    const { data } = api.get(`/api/products/id/${reqData.productID}`);

    //the data that is fetch from the api, store into the reducer
    dispatch({ type: FIND_PRODUCT_BY_ID_SUCCESS, payload: data });
```

**Fig: 4.32**

## PRODUCT ACTIONTYPES:



```
ActionType.js
Lovisa > Frontend > src > Redux > Customer > Product > ActionType.js > ...
export const FIND_PRODUCT_BY_ID_REQUEST = "FIND_PRODUCT_BY_ID_REQUEST";
export const FIND_PRODUCT_BY_ID_SUCCESS = "FIND_PRODUCT_BY_ID_SUCCESS";
export const FIND_PRODUCT_BY_ID_FAILURE = "FIND_PRODUCT_BY_ID_FAILURE";

export const FIND_PRODUCTS_REQUEST = "FIND_PRODUCT_BY_CATEGORY_REQUEST";
export const FIND_PRODUCTS_SUCCESS = "FIND_PRODUCT_BY_CATEGORY_SUCCESS";
export const FIND_PRODUCTS_FAILURE = "FIND_PRODUCT_BY_CATEGORY_FAILURE";
```

**Fig: 4.33**

# BACKEND

## SERVER:

server.js

Lovisa > Backend > JS server.js > ...

```
// Password routes
app.use("/api", passwordRoutes);

// Twilio Route
app.use("/api/twilio", twilioRoutes);

//User Routes
app.use("/api/users", userRouters);

import productRouter from "./routes/productRoutes.js";
app.use("/api/products", productRouter);

import adminProductRouter from "./routes/adminProductRoutes.js";
app.use("/api/admin/products", adminProductRouter);

import cartRouter from "./routes/cartRoutes.js";
app.use("/api/cart", cartRouter);

import cartItemsRouter from "./routes/cartItemsRoutes.js";
app.use("/api/cart_items", cartItemsRouter);

import orderRouter from "./routes/orderRoutes.js";
app.use("/api/orders", orderRouter);

import adminOrderRouter from "./routes/adminOrderController.js";
app.use("/api/admin/orders", adminOrderRouter);

import reviewRouter from "./routes/reviewRoutes.js";
app.use("/api/reviews", reviewRouter);

import ratingRouter from "./routes/ratingRoutes.js";
app.use("/api/ratings", ratingRouter);
```

**Fig: 4.34**

## PASSWORD ROUTES:

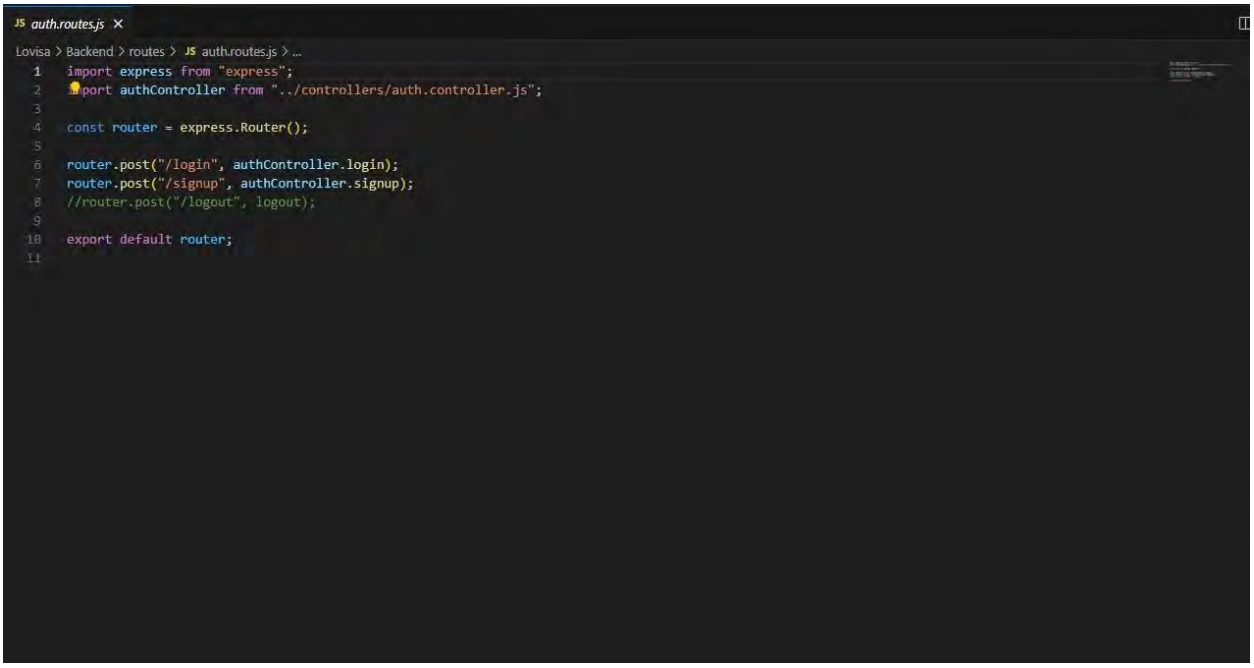



**Fig: 4.35**

## PRODUCT ROUTES:

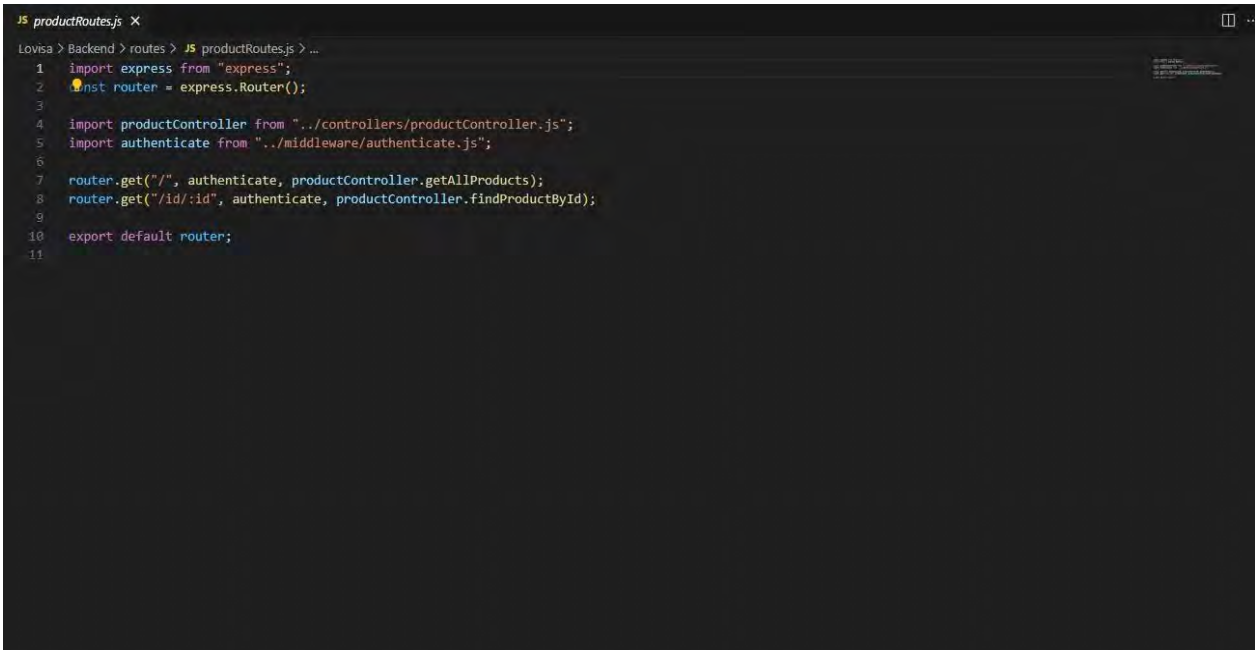


**Fig: 4.36**

**USER ROUTES:**

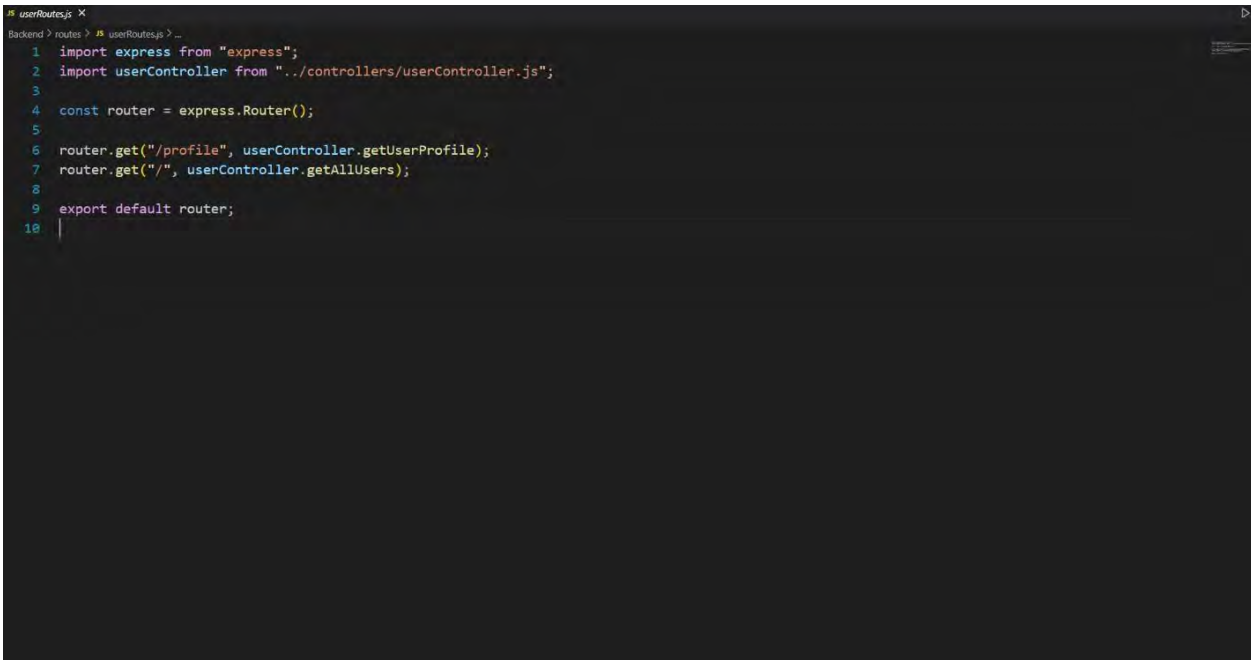
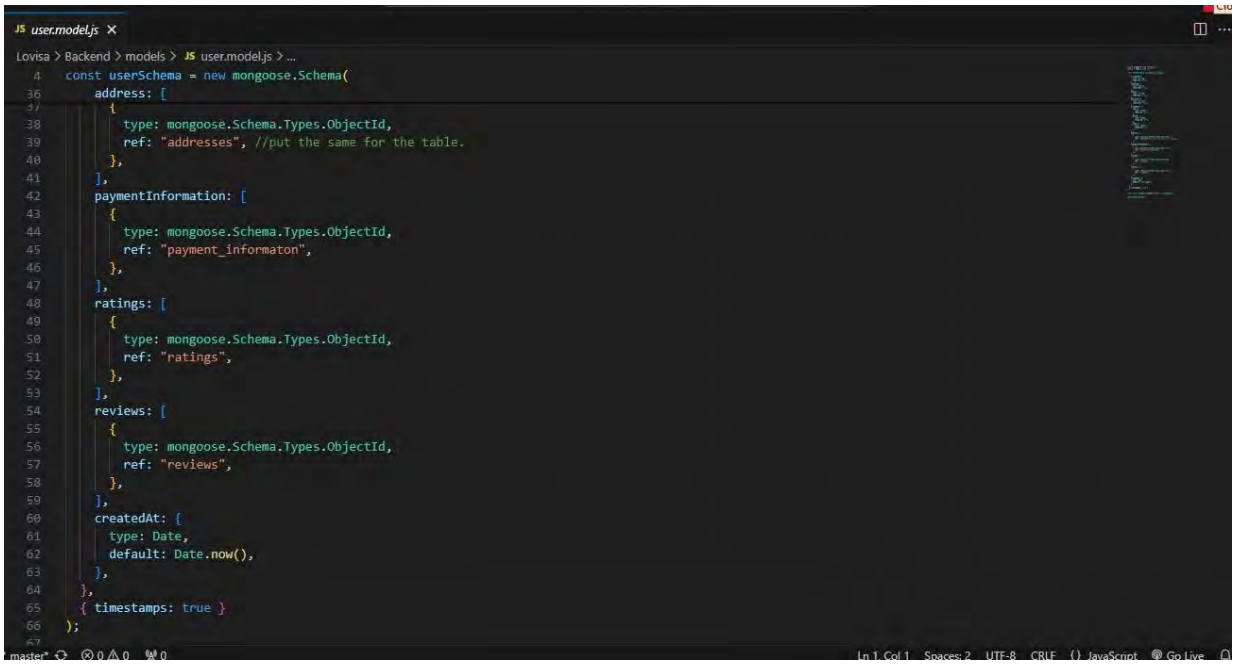



**Fig: 4.37**

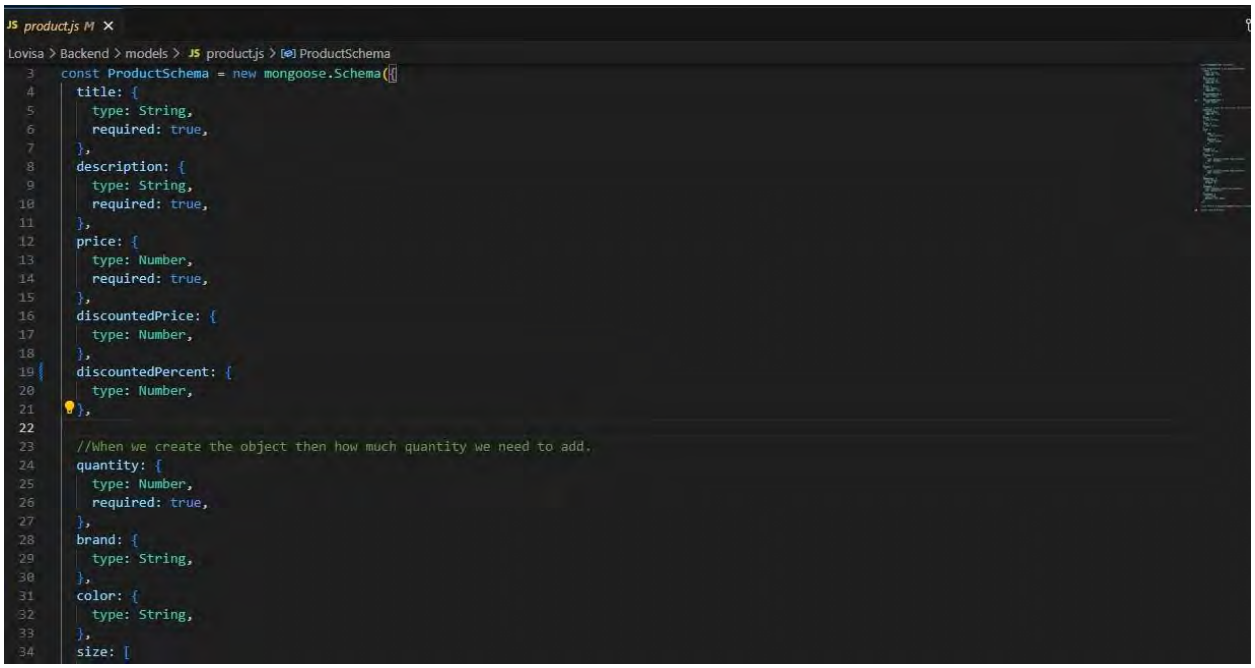
**USER SCHEMA:**



```
const userSchema = new mongoose.Schema(
    address: [
      {
        type: mongoose.Schema.Types.ObjectId,
        ref: "addresses", //put the same for the table.
      },
    ],
    paymentInformation: [
      {
        type: mongoose.Schema.Types.ObjectId,
        ref: "payment_informaton",
      },
    ],
    ratings: [
      {
        type: mongoose.Schema.Types.ObjectId,
        ref: "ratings",
      },
    ],
    reviews: [
      {
        type: mongoose.Schema.Types.ObjectId,
        ref: "reviews",
      },
    ],
    createdAt: {
      type: Date,
      default: Date.now(),
    },
  },
  { timestamps: true }
);
```

**Fig: 4.38**

**PRODUCT SCHEMA:**



```
const ProductSchema = new mongoose.Schema({
  title: {
    type: String,
    required: true,
  },
  description: {
    type: String,
    required: true,
  },
  price: {
    type: Number,
    required: true,
  },
  discountedPrice: {
    type: Number,
  },
  discountedPercent: {
    type: Number,
  },

  //When we create the object then how much quantity we need to add.
  quantity: {
    type: Number,
    required: true,
  },
  brand: {
    type: String,
  },
  color: {
    type: String,
  },
  size: [
```

**Fig: 4.39**

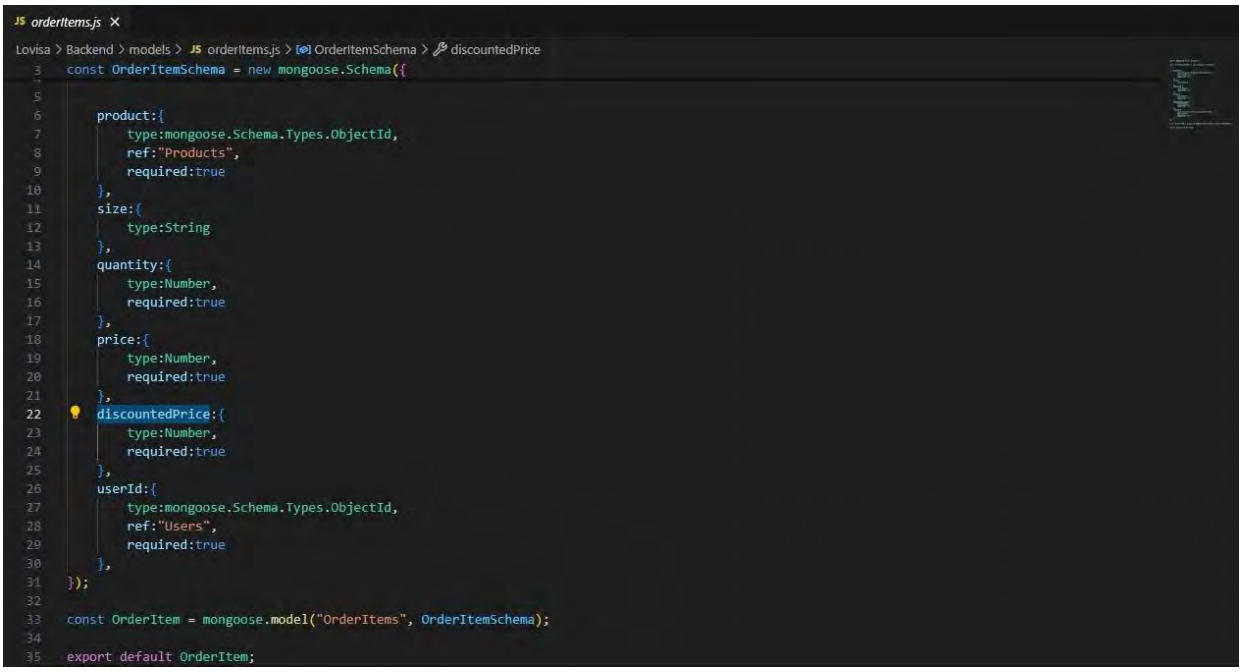



**Fig: 4.40**

## ADDRESS SCHEMA:

**Fig: 4.41**

## CART ITEM SCHEMA:

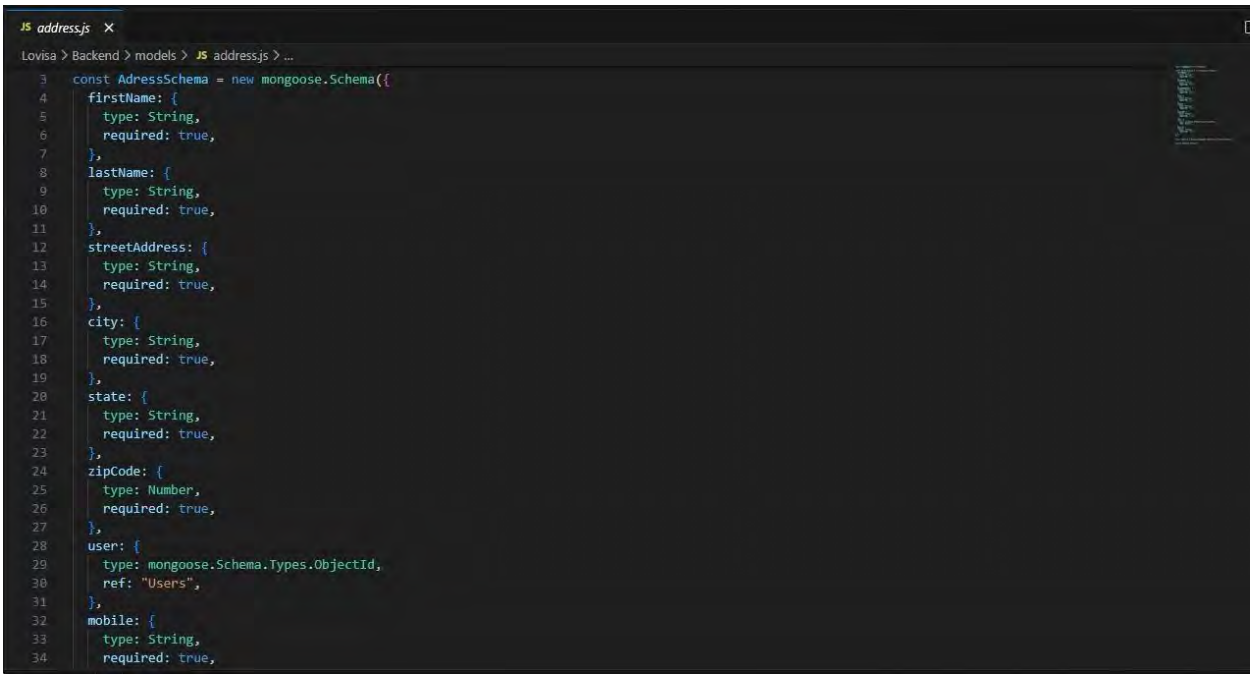



**Fig: 4.42**

## CATEGORY SCHEMA:

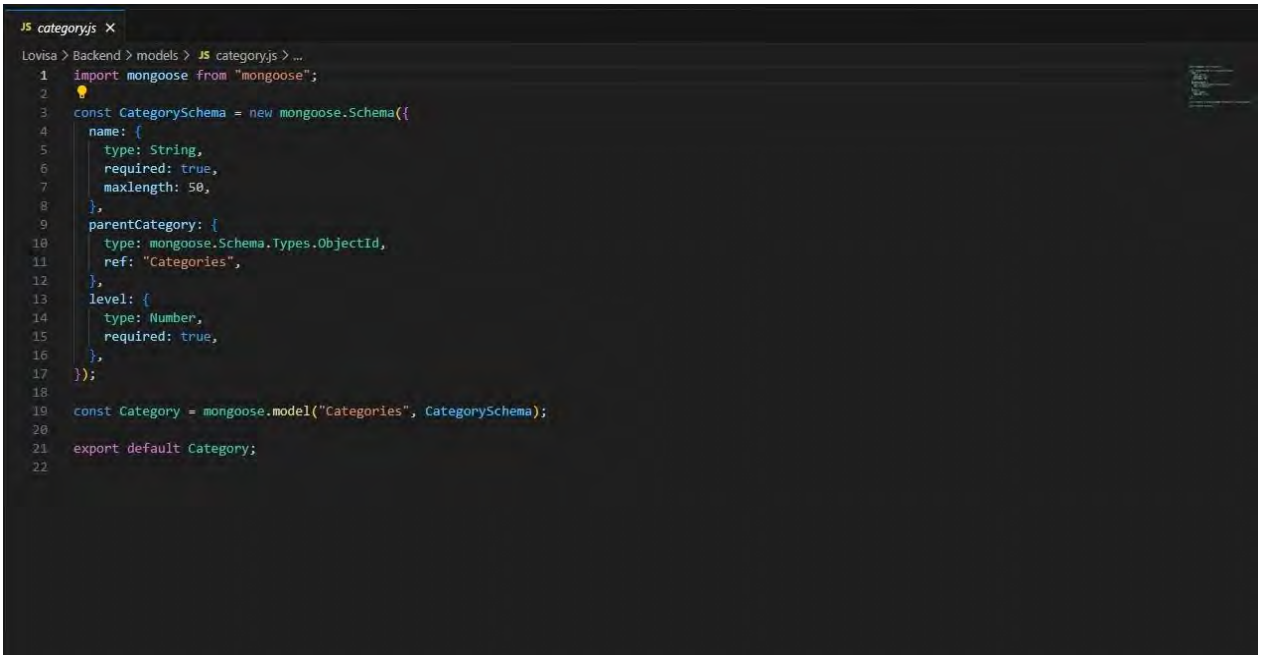



**Fig: 4.43**

## MIDDLEWARE - AUTHENTICATE:

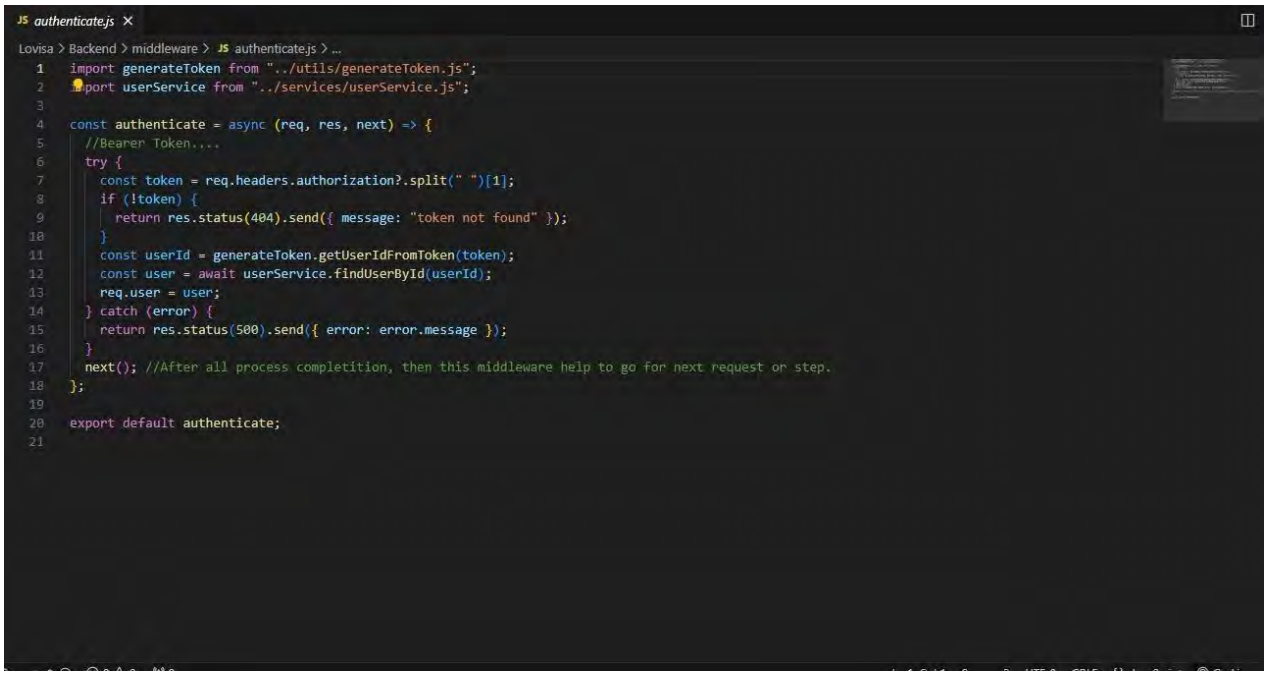
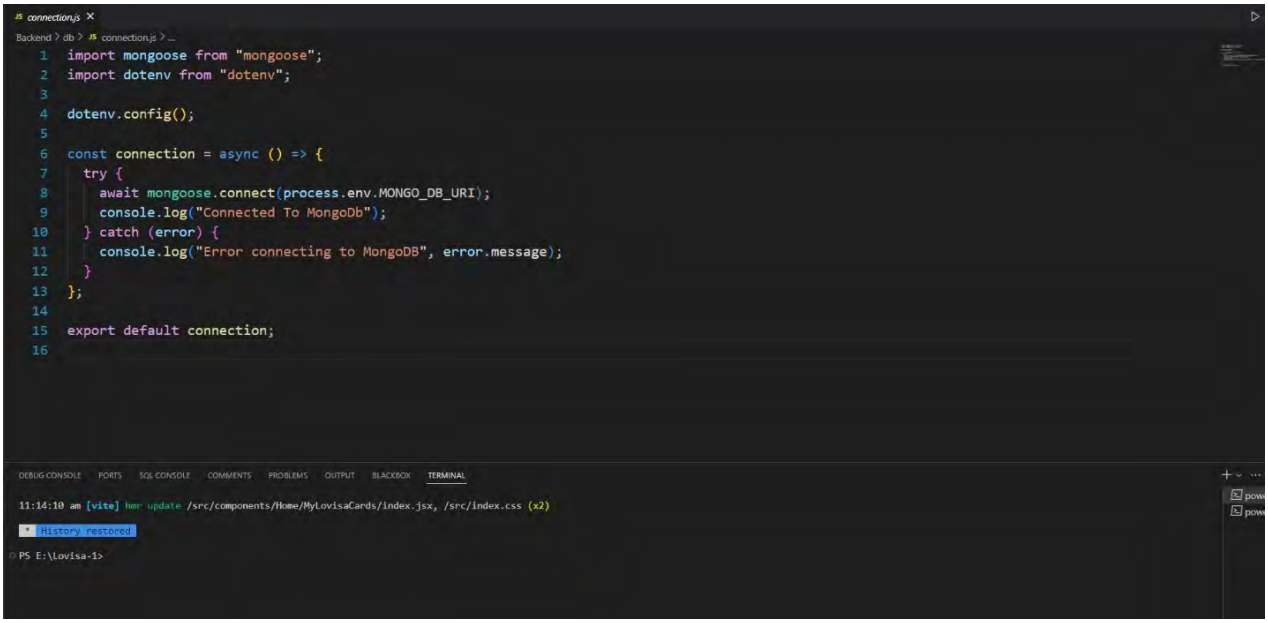


**Fig: 4.44**

## CONNECTION:




## ADMIN ORDER CONTROLLER:

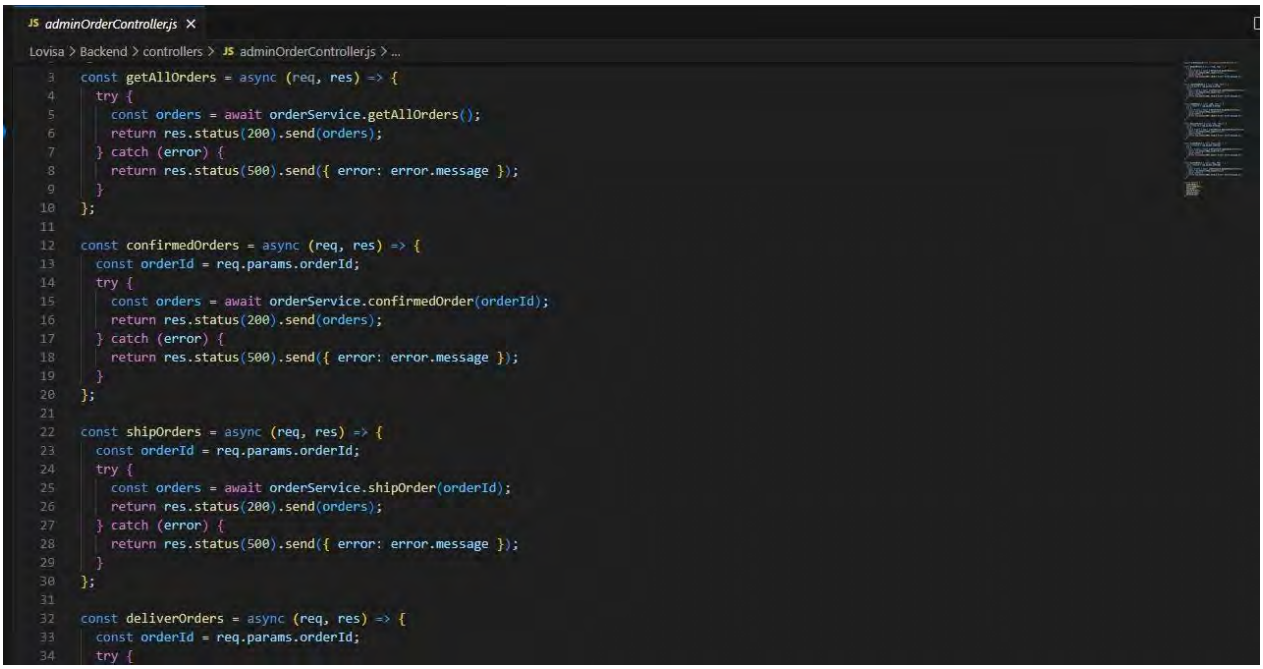


**Fig: 4.46**

## AUTH CONTROLLER:

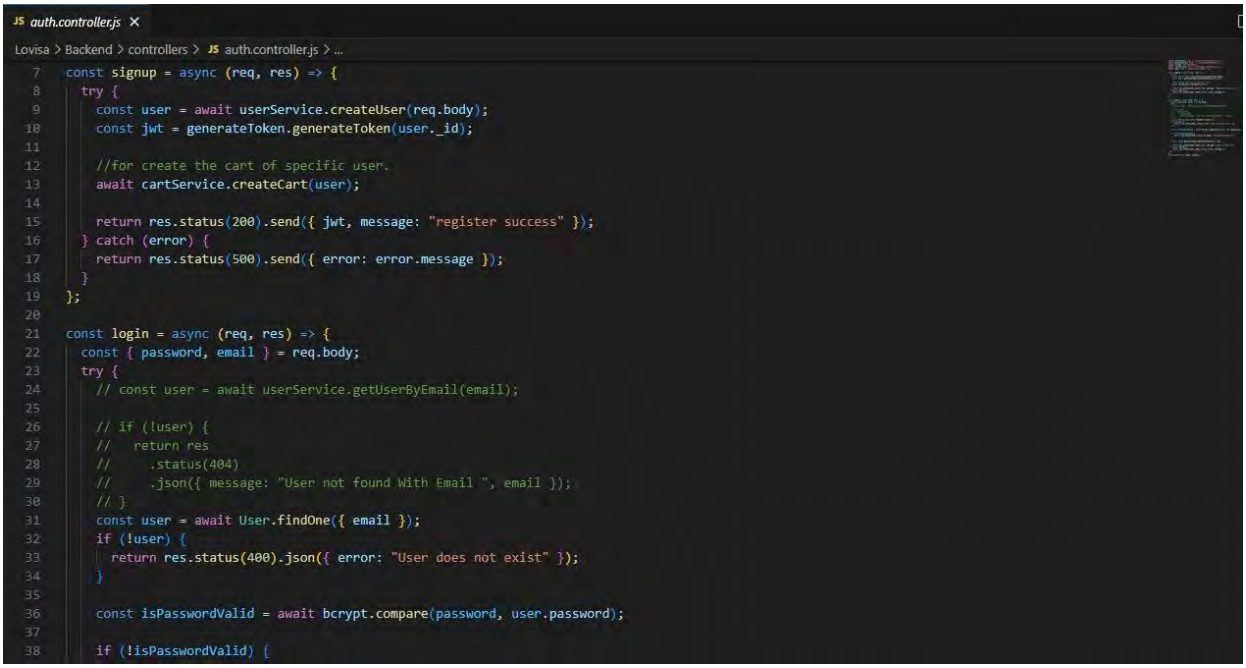



**Fig: 4.47**

## PASSWORD CONTROLLER:

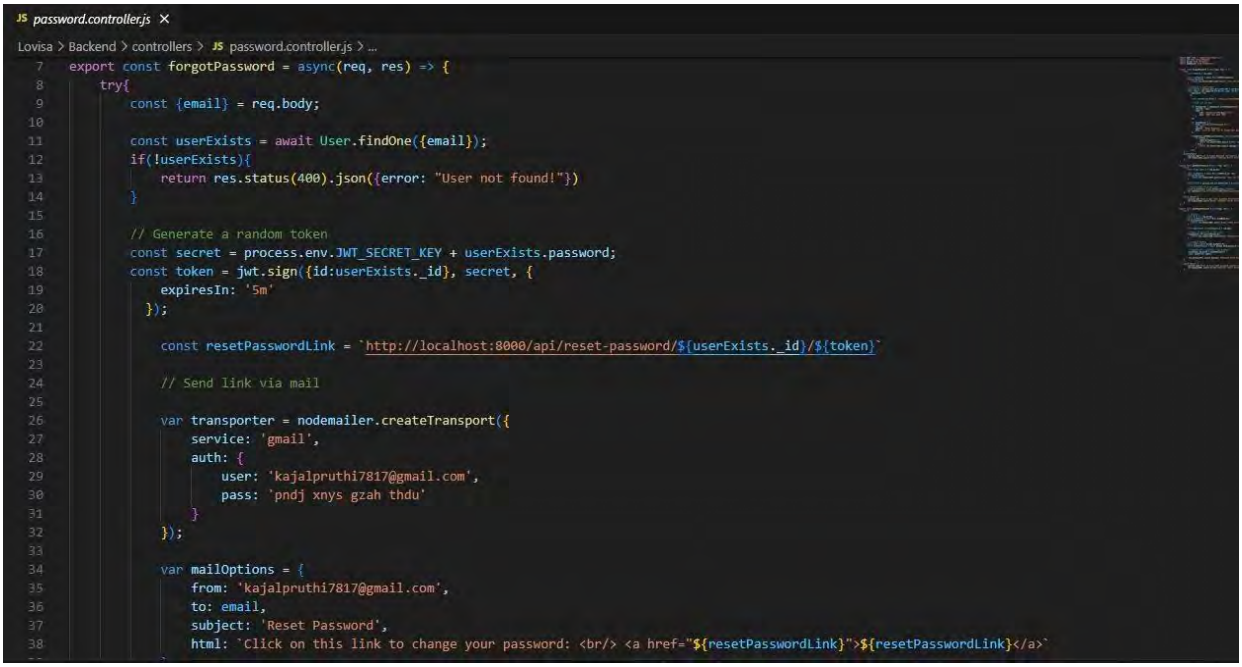



**Fig: 4.48**

## PAYMENT CONTROLLER:

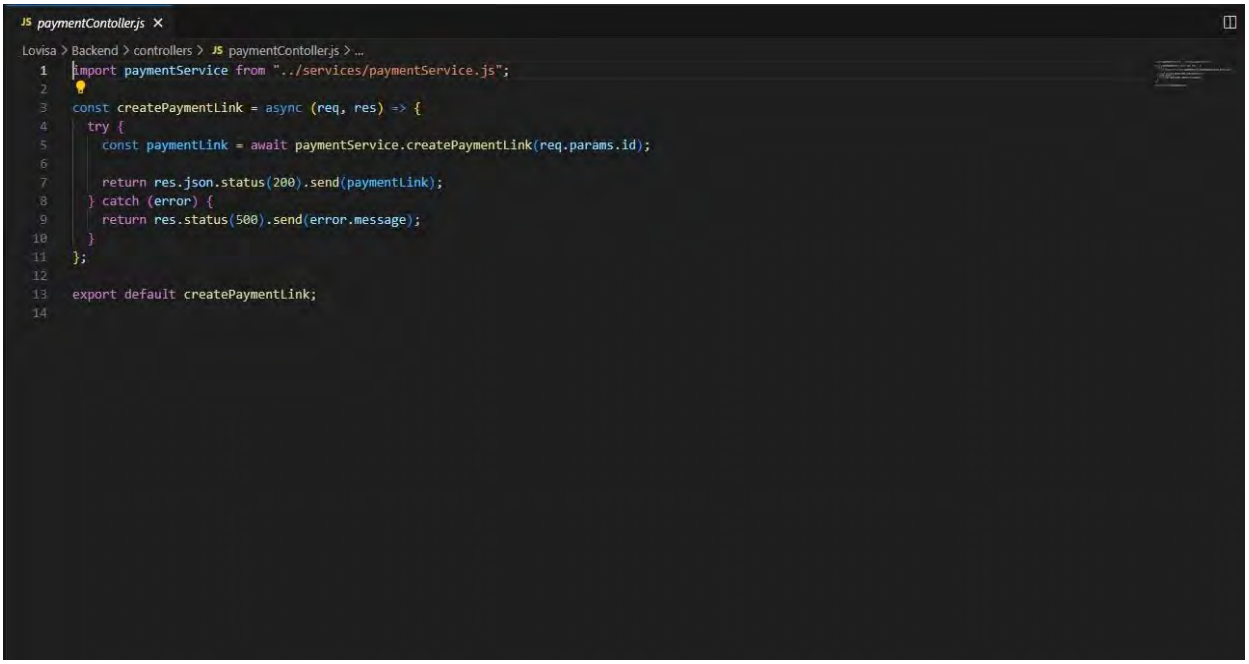



**Fig: 4.49**

## PRODUCT CONTROLLER:

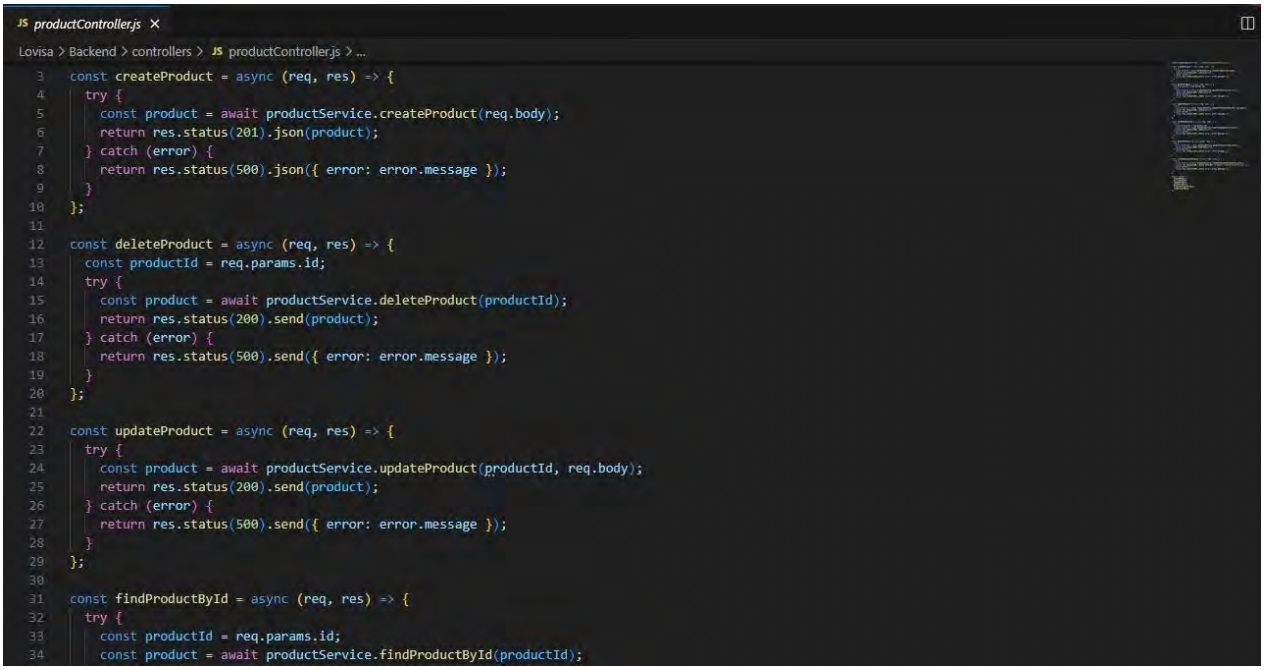



**Fig: 4.50**

## USER CONTROLLER:

productController.js

Lovisa > Backend > controllers > productController.js > ...

```
const createProduct = async (req, res) => {
  try {
    const product = await productService.createProduct(req.body);
    return res.status(201).json(product);
  } catch (error) {
    return res.status(500).json({ error: error.message });
  }
};

const deleteProduct = async (req, res) => {
  const productId = req.params.id;
  try {
    const product = await productService.deleteProduct(productId);
    return res.status(200).send(product);
  } catch (error) {
    return res.status(500).send({ error: error.message });
  }
};

const updateProduct = async (req, res) => {
  try {
    const product = await productService.updateProduct(productId, req.body);
    return res.status(200).send(product);
  } catch (error) {
    return res.status(500).send({ error: error.message });
  }
};

const findProductById = async (req, res) => {
  try {
    const productId = req.params.id;
    const product = await productService.findProductById(productId);
```

**Fig: 4.51**

## TWILIO CONTROLLER:

twilio.controller.js

Lovisa > Backend > controllers > twilio.controller.js > ...

```
// twilio.controller.js
import twilio from "twilio";
import dotenv from "dotenv";

dotenv.config();

const client = twilio(
  process.env.TWILIO_ACCOUNT_SID,
  process.env.TWILIO_AUTH_TOKEN
);

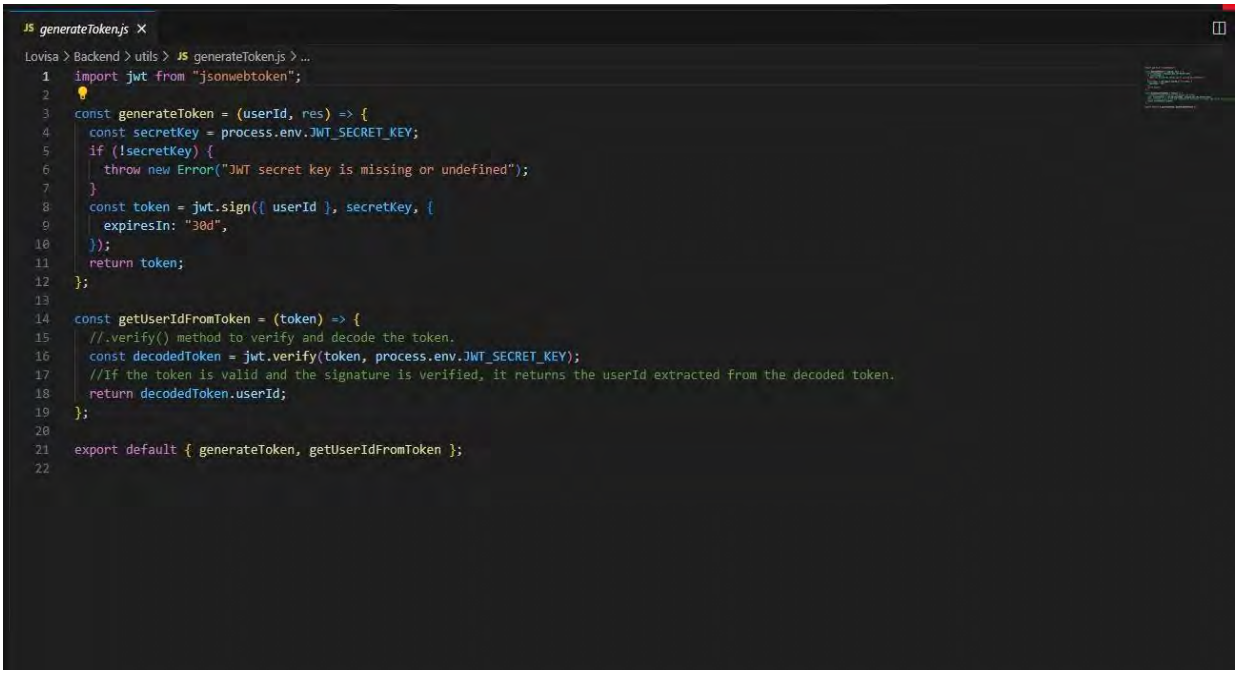
export const sendMessage = async (req, res) => {
  try {
    const { selectedCountry, phoneNumber, message } = req.body;

    await client.messages.create({
      body: message,
      from: "whatsapp:+14155238886",
      to: `whatsapp:${selectedCountry}${phoneNumber}`,
    });

    res
      .status(200)
      .json({ success: true, message: "WhatsApp message sent successfully" });
  } catch (error) {
    res.status(500).json({
      success: false,
      message: "Failed to send WhatsApp message",
      error,
    });
  }
};
```

**Fig: 4.52**

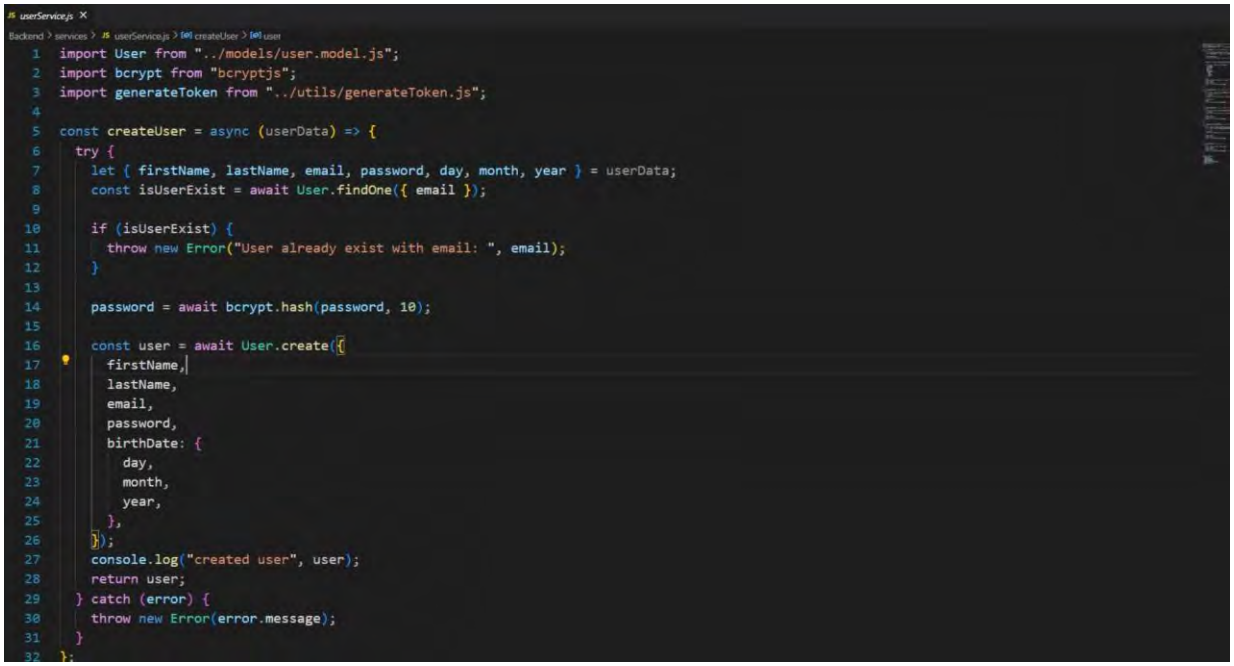
## GENERATE TOKEN:



```
generateToken.js
Lovisa > Backend > utils > generateToken.js > ...
1  import jwt from "jsonwebtoken";
2
3  const generateToken = (userId, res) => {
4    const secretKey = process.env.JWT_SECRET_KEY;
5    if (!secretKey) {
6      throw new Error("JWT secret key is missing or undefined");
7    }
8    const token = jwt.sign({ userId }, secretKey, {
9      expiresIn: "30d",
10   });
11   return token;
12 };
13
14 const getUserIdFromToken = (token) => {
15   //.verify() method to verify and decode the token.
16   const decodedToken = jwt.verify(token, process.env.JWT_SECRET_KEY);
17   //If the token is valid and the signature is verified, it returns the userId extracted from the decoded token.
18   return decodedToken.userId;
19 };
20
21 export default { generateToken, getUserIdFromToken };
22
```

**Fig: 4.53**

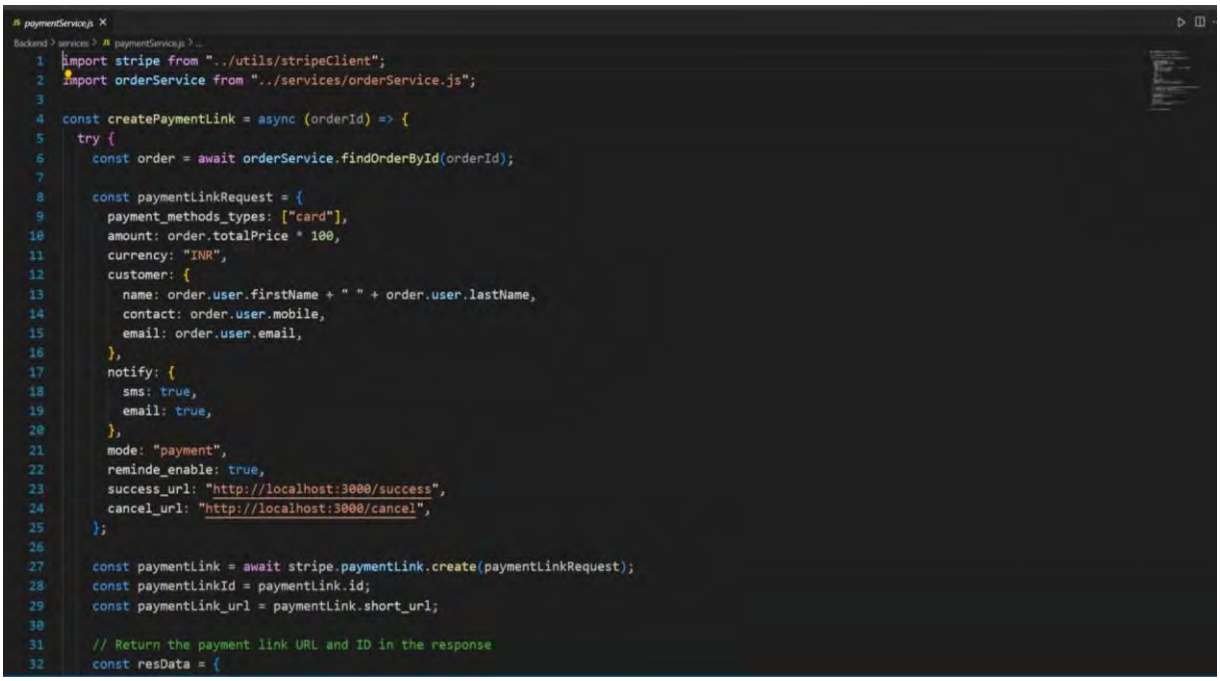
## USER SERVICE:



```
userService.js
Backend > services > userService.js > createUser > user
1  import User from "../models/user.model.js";
2  import bcrypt from "bcryptjs";
3  import generateToken from "../utils/generateToken.js";
4
5  const createUser = async (userData) => {
6    try {
7      let { firstName, lastName, email, password, day, month, year } = userData;
8      const isUserExist = await User.findOne({ email });
9
10     if (isUserExist) {
11       throw new Error("User already exist with email: ", email);
12     }
13
14     password = await bcrypt.hash(password, 10);
15
16     const user = await User.create({
17       firstName,
18       lastName,
19       email,
20       password,
21       birthDate: {
22         day,
23         month,
24         year,
25       },
26     });
27     console.log("created user", user);
28     return user;
29   } catch (error) {
30     throw new Error(error.message);
31   }
32 };
```

**Fig: 4.54**

**PAYMENT SERVICE:**



```
import stripe from "../utils/stripeClient";
import orderService from "../services/orderService.js";

const createPaymentLink = async (orderId) => {
  try {
    const order = await orderService.findOrderById(orderId);

    const paymentLinkRequest = {
      payment_methods_types: ["card"],
      amount: order.totalPrice * 100,
      currency: "INR",
      customer: {
        name: order.user.firstName + " " + order.user.lastName,
        contact: order.user.mobile,
        email: order.user.email,
      },
      notify: {
        sms: true,
        email: true,
      },
      mode: "payment",
      reminde_enable: true,
      success_url: "http://localhost:3000/success",
      cancel_url: "http://localhost:3000/cancel",
    };

    const paymentLink = await stripe.paymentLink.create(paymentLinkRequest);
    const paymentLinkId = paymentLink.id;
    const paymentLink_url = paymentLink.short_url;

    // Return the payment link URL and ID in the response
    const resData = {
```

**Fig: 4.55**

**PRODUCT SERVICE:**



```
async function getAllProducts(reqQuery) {
    query = query.where("sizes.name").in([...sizesSet]);
  }

  if (minPrice && maxPrice) {
    query = query.where("discountedPrice").gte(minPrice).lte(maxPrice);
  }

  if (minDiscount) {
    query = query.where("discountedPercent").gt(minDiscount);
  }

  if (stock) {
    if (stock === "in_stock") {
      query = query.where("quantity").gt(0);
    } else if (stock === "out_of_stock") {
      query = query.where("quantity").lte(0);
    }
  }

  if (sort) {
    const sortDirection = sort === "price_high" ? -1 : 1;
    query = query.sort({ discountedPrice: sortDirection });
  }

  // Apply pagination
  // const totalProducts = await Product.countDocuments(query);

  // const skip = (pageNumber - 1) * pageSize;

  // query = query.skip(skip).limit(pageSize);
```

**Fig: 4.56**

## CART SERVICE:

cartService.js

Backend > services > cartService.js > createCart

```
tabnine: test | explain | document | ask
async function createCart(user) {
  try {
    const cart = new Cart({ user });
    const createdCart = await cart.save();
    return createdCart;
  } catch (error) {
    throw new Error(error.message);
  }
}

tabnine: test | explain | document | ask
async function findUserCart(userId) {
  let cart = await Cart.findOne({ user: userId });
  //find the how many items in the cart by using cartId
  let cartItems = await CartItem.find({ cart: cart._id }).populate("product");
  cart.cartItems = cartItems;

  let totalPrice = 0;
  let totalDiscountedPrice = 0;
  let totalItem = 0;

  for (const cartItem of cart.cartItems) {
    totalPrice += cartItem.price;
    totalDiscountedPrice += cartItem.discountedPrice;
    totalItem += cartItem.quantity;
  }

  cart.totalPrice = totalPrice;
  cart.totalItem = totalItem;
  cart.totalDiscountedPrice = totalDiscountedPrice;
  cart.discount = totalPrice - totalDiscountedPrice;
```

**Fig: 4.57**

# CHAPTER-7

# SYSTEM TESTING

## 1. Objective:

- Validate the functionality, performance, security, and usability of the Restaurant website.

## 2. Testing Types:

- **Functional Testing:** Verify features like product catalogue, search for table, checkout, and order management.
- **Performance Testing:** Measure website speed and responsiveness under different load conditions.
- **Security Testing**: Check for vulnerabilities and ensure secure payment processing.
- **Usability Testing**: Evaluate the user interface for ease of use and intuitive navigation.
- **Compatibility Testing:** Test the website on various browsers and devices.

## 3. Test Scenarios and Test Cases:

- **Search:** Verify search functionality for menu by name, or from pre-existing list.
- **Booking:** Check the availability of tables for booking.
- **Checkout Process:** Test the end-to-end checkout process, including user registration and payment.
- **Payment Gateway:** Check the functionality and security of the payment gateway.
- **User Account:** Test user account creation, login, and profile management.
- **Responsive Design**: Verify the website's responsiveness on various devices.

## 4. Error Handling and Recovery Testing: -

- Test error messages and recovery mechanisms for various scenarios (e.g., invalid input, payment failure)

## 5. Localization:

- Verify support for multiple languages and currency options for international customers.

## 6. Reporting and Documentation:

- Document all test results and defects found during testing.

## 7. Deployment:

- Obtain approvals before deploying the website to the production environment.

## 8.1 Unit Testing:

- Unit testing is the first level of testing and focuses on testing individual units or components of the software in isolation.
- It is usually performed by developers during the development process to ensure that each unit functions as intended.
- The goal is to identify and fix defects early in the development cycle, leading to better code quality and easier debugging.
- Test cases are written to validate the correctness of functions, methods, or procedures, and their inputs and outputs are verified.
- Unit testing frameworks like JUnit (for Java), pytest (for Python), and Jasmine (for JavaScript) are commonly used to automate and manage unit tests.

## 8.2 Integration Testing:

- Integration testing verifies the interactions between different units or modules when integrated into larger components or systems.
- It aims to identify defects that may arise due to the interaction of different components.
- Two main approaches for integration testing are top-down and bottom-up integration testing.
- Top-down integration testing starts with the main module, and lower-level modules are gradually integrated for testing.
- Bottom-up integration testing begins with testing individual units, and higher-level modules are integrated step by step.

## 8.3 System Testing:

- System testing is conducted on the complete and integrated software system to verify that it meets the specified requirements and functions as expected in a real-world environment.
- It is a black-box testing technique, where the internal implementation details are not considered, and the system is tested from an end-user's perspective.
- The primary goal is to ensure that the system is ready for deployment and can handle

real-world usage scenarios without significant issues.

## 8.4 Acceptance Testing:

- Acceptance testing is the final phase of testing and involves validating the system's compliance.
- With business requirements and user expectations.

**There are two main types of acceptance testing:**

**User Acceptance Testing (UAT) and Business Acceptance Testing (BAT).**

- **UAT** is conducted by end-users, and they assess the system's suitability for their needs and whether it meets their business objectives.
- **BAT** involves testing the system's alignment with the overall business strategy and objectives.
- Acceptance testing is essential for gaining user confidence and ensuring that the software is ready for production deployment.

# CHAPTER-9

## IMPLEMENTATION AND PROBLEMS IN DEVELOPMENT

### 1. Front-end Development: -

- Developed the user interface using HTML to structure the content and CSS to style the website's layout and appearance.
- Utilized Bootstrap framework for responsive design, ensuring the website is mobile-friendly and accessible on various devices.
- Implemented interactive elements and dynamic behavior using JavaScript to enhance user experience, such as product image sliders and filtering options.

### 2. Back-end Development: -

- Utilized Node.js for the back-end development to handle server-side logic and manage user requests.
- Integrated MongoDB database to efficiently store and manage product data, user details, and order information.
- Employed React.js library for building the front-end user interface to enhance user experience and interactivity.

### 3. User Registration and Authentication: -

- Implemented user registration and login functionalities using Node.js and MongoDB, allowing users to create accounts and securely log in.
- Utilized password hashing techniques to store passwords securely in the MongoDB database. Employed React.js library for building the front-end user interface, enhancing user experience during registration and authentication processes.

## 4. Items Collection: -

- Developed a temporarily storage feature using Node.js to manage selected products te
- Implemented the checkout process, allowing users to review their cart contents, input shipping and payment details, and place orders securely.
- Integrated MongoDB database to store cart data and order information efficiently.

## 5. Performance Optimization: -

- Implemented caching mechanisms to reduce database queries and improve the website's loading speed and responsiveness.
- Minimized file sizes and optimized image assets to enhance performance.

## 6. Security Measures: -

- Utilized input validation and sanitization techniques in Node.js to mitigate common security vulnerabilities such as SQL injection and XSS attacks.
- Ensured secure HTTPS communication and integrated secure payment gateways to safeguard sensitive user data during transactions.

## 7. Deployment: -

- Deployed the Restaurant website using MongoDB and Node.js on a local server for testing and development purposes.

## 8. Testing and Debugging: -

- Conducted unit testing to verify the correctness of individual functions and components.
- Performed functional testing, user acceptance testing, and cross-browser testing to ensure the website's functionality, usability, and compatibility.

## 9. Documentation: -

- Prepared detailed code documentation with comments to facilitate code maintenance and collaboration.
- Created user guides or documentation to assist users in navigating and using the website effectively.

## Facing Problem During Development The Project: -

### I. Requirement Gathering Phase: -

It is a crucial step. The project will fail if the requirements are poor. At that time, developer became disappointed when Developer was collecting information and data then what information and data will be helpful or appropriate for this project.

### II. Design Phase: -

At this moment, the developer struggled to decide which flowchart would be best for this project when creating it.

### III. Development Phase: -

It is a very major component of the undertaking. Frequently, the developer misplaced the semicolon (;) at the conclusion of the statement.

### IV. Testing Phase: -

It is an essential component of the project. This section will aid with project testing overall. During testing, developer has faced some bugs of the project.

# CHAPTER-10

## CONCLUSION & FUTURE SCOPE

"Aura - Jewelry Destination" is an innovative e-commerce platform built with the MERN stack, designed to revolutionize the purchase of jewelry and accessories. The platform enhances the user experience with advanced search options, personalized recommendations, and secure payment processes. It streamlines operations by providing an intuitive dashboard for product management and customer interactions. By celebrating fashion, "Aura" offers a diverse range of traditional and contemporary jewelry, ensuring a seamless and enjoyable online shopping experience. Overall, "Aura - Jewelry Destination" bridges the gap between high-quality jewelry seekers and the brand, promoting elegant fashion and ensuring a superior online shopping experience. promoting fashion and ensuring a seamless online shopping experience.

## Future Scope :

- Develop Mobile Applications: Create dedicated mobile applications for iOS and Android to reach a wider audience and enhance accessibility.
- Implement AI-driven Features: Introduce AI-driven features such as personalized styling recommendations and virtual try-ons to provide a more engaging shopping experience.
- Integrate an Admin Panel: Implement a comprehensive admin panel to streamline the management of users, items, orders, and reviews, enhancing overall platform efficiency.
- AI-powered Chatbots: Deploy AI-powered chatbots for instant customer support and query resolution, improving customer service.
- Social Media Integration: Enable social media integration for easier sharing of purchases and wish lists, increasing customer engagement and brand visibility.

# BIBLIOGRAPHY:


**MERN Stack Resources:**

- MongoDB Documentation: https://www.mongodb.com/docs/
- Express.js Documentation: https://expressjs.com/
- React.js Documentation: https://legacy.reactjs.org/docs/getting-started.html
- Node.js Documentation: https://nodejs.org/en
- Mongoose Documentation: https://mongoosejs.com/docs/

**Project Planning and Design:**

- A Guide to Writing a Feasibility Study: https://www.wikihow.life/Do-a-Feasibility-Study
- Data Flow Diagrams Tutorial: https://www.tutorialspoint.com/software_engineering/software_analysis_design_tools.htm
- Entity-Relationship Diagrams (ER Diagrams): https://www.tutorialspoint.com/Entity-Relationship-Diagram

**Software Engineering and Testing:**

- React Component Structure: https://legacy.reactjs.org/docs/faq-structure.html
- React UI Libraries: https://mui.com/material-ui/, https://github.com/react-bootstrap/react-bootstrap
- React State Management: https://react-redux.js.org/, https://legacy.reactjs.org/docs/context.html
- Node.js with Express - RESTful APIs: https://www.tutorialspoint.com/nodejs/nodejs_restful_api.htm
- Node.js Security: https://cheatsheetseries.owasp.org/cheatsheets/Nodejs_Security_Cheat_Sheet.html
- Jest Testing Framework: https://jestjs.io/

- Mocha Testing Framework: https://mochajs.org/
- Cypress E2E Testing: https://www.cypress.io/
- Playwright E2E Testing: https://playwright.dev/

**Security:**

- JWT Authentication: https://jwt.io/
- OWASP ZAP: https://www.zaproxy.org/
- Static Code Analysis Tools: https://www.sonarsource.com/products/sonarqube/

# “PAWSITIVEFRIENDS”

**PROJECT REPORT**

BY

**“SAHIL KHERA”**
**“38222950018”**

*SUBMITTED TO*

**HIMACHAL PRADESH UNIVERSITY REGIONAL CENTRE, KHANIYARA, DHARAMSHALA**

*IN*

*PARTIAL FULFILLMENT OF THE REQUIREMENTS*

*OF*

**MASTER OF COMPUTER APPLICATIONS (MCA)**
**BATCH: 2022-2024**

**Under the supervision of**
**“Mr. Dheeraj Sonkhla”**




**DEPARTMENT OF COMPUTER SCIENCE**
**REGIONAL CENTRE, KHANIYARA, DHARAMSHALA**

# DECLARATION

I hereby certify that the work which is being presented in the MCA Industrial Project Report entitled" The PAWsitive Friends", in partial fulfilment of the requirements for the award of the Master of Computer Application and submitted to the Department of Computer Science & Himachal Pradesh University Regional Centre, Mohli, Khaniyara, Dharamsala, HP is an authentic record of our work carried out during a period from 8 Jan 2024 to 8 July 2024, under the supervision of Devraj Singh.

*Signature*

Sahil Khera (38222950018)

# CERTIFICATE FROM GUIDE

This is to certify that the project report entitled **"Pawsitive Friends Website"** submitted to Department of Computer Science, **Himachal Pradesh University, Regional Centre Dharamshala** in partial fulfilment of the requirement for the award of the degree of MASTER OF COMPUTER APPLICATIONS has been carried out by **Mr. Sahil Khera**, with enrolment no. **38222950018** under my guidance.

I wish him all the best for future

Dated: 09/07/2021

Mr. Dheeraj Sonkhla
(Project Guide)
Department of Computer Science

# CERTIFICATE FROM COMPANY



# ACKNOWLEDGEMENT

I am very grateful to my Industrial Project guide **Devraj Singh** for giving his valuable time and constructive guidance in preparing the Industrial Project. His guidance helped us in the development and writing of this project. I could not have imagined having a better advisor and mentor for my project work. He consistently allowed this project to be my work but steered me in the right direction whenever he thought I needed it. The completion of the project would not have been possible without his help and insights. Besides my advisor, I would like to thank my seniors for their encouragement, insightful comments, and hard questions.

Finally, I would like to thank my parents for providing me with unfailing support and continuous encouragement throughout my years of study and through the process of researching and writing this project work. This accomplishment would not have been possible without them.

Date: 09/07/2024 Signature:

# ABSTRACT

"The PAWsitive Friends" is a web application built with the MERN stack (MongoDB, Express.js, React.js, and Node.js) that revolutionizes animal rescue by bridging the gap between injured animals and timely veterinary care. It boasts a user-centric interface featuring a comprehensive animal rescue form. Users can now report injured animals with ease by entering details like type, injury description, and an optional photo. Previously, a simple "OK" button submitted this data. To further streamline the process, the application now offers a "Get Current Location" button that leverages reverse geocoding to automatically capture the user's location (place name) with a single click.

This enhanced location detection empowers users to find nearby veterinary hospitals within a 10-kilometer radius. Clicking "Find Nearby Hospitals" presents a list of accessible veterinary facilities with crucial details like hospital name, address, doctor's information (name, contact number, email address), enabling informed decisions on where to seek care. Crucially, once a hospital is chosen, the application empowers users to directly contact the doctor via call, email, or WhatsApp. This eliminates communication delays and ensures swift action in securing veterinary attention for the injured animal.

"The PAWsitive Friends" doesn't stop there. Recognizing the invaluable role of volunteers, it features a dedicated Volunteer Portal. This portal allows volunteers to stay updated on rescued animals within the application's database, fostering active participation in animal welfare efforts. Additionally, the application includes a user-friendly Contact Us page where individuals can connect with the website's administrators. By providing a form for entering their name, phone number, email address, and a query or message, the application encourages open communication and facilitates feedback.

By streamlining animal rescue reporting, bridging the gap between injured animals and veterinary care, and fostering volunteer engagement, "The PAWsitive Friends" delivers a comprehensive solution that significantly impacts animal welfare initiatives."

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# CHAPTER-01

# INTRODUCTION

## 1.1 INTRODUCTION

### The PAWsitive Friends - A MERN Stack Application for Animal Rescue

"The PAWsitive Friends" is a web application designed to revolutionize animal rescue efforts by leveraging the power of the MERN stack (MongoDB, Express.js, React.js, and Node.js). This user-centric application aims to bridge the gap between injured animals in need and timely veterinary care, streamlining the rescue process and fostering a more effective animal welfare ecosystem.

This chapter delves into the project's purpose, functionalities, and technological foundation. It explores how the MERN stack's unique strengths contribute to achieving the application's goals and creating a positive impact on animal rescue.

### 1.1.2 The Need for Efficient Animal Rescue

Animal rescue efforts face numerous challenges, often requiring swift action and coordinated communication. Injured animals might struggle to receive prompt medical attention due to a lack of streamlined reporting systems or readily available information about nearby veterinary resources. This can lead to delays in treatment and potentially have detrimental consequences for the animal's well-being.

### 1.1.3 Introducing the PAWsitive Friends

"The PAWsitive Friends" tackles these challenges head-on by providing a comprehensive platform for animal rescue. It offers an intuitive interface for users to report injured animals, leveraging the power of technology to simplify the process and improve response times. The application's key functionalities are designed to:



Fig. 1.1

**Streamline Animal Rescue Reporting:** Users can easily report injured animals by providing details like animal type, injury description, and an optional photo.

**Enhanced Location Detection:** Utilizing reverse geocoding, "The PAWsitive Friends" automatically detects the user's current location, eliminating the need for manual address entry.

**Nearby Veterinary Hospital Search:** Based on the user's location, the application searches for nearby veterinary hospitals within a specified radius, presenting relevant details like hospital name, address, and contact information (doctor's name, phone number, email address).

**Direct Communication Options:** Users can swiftly initiate contact with the chosen hospital through call, email, or WhatsApp, ensuring timely medical care for the injured animal.

**Volunteer Engagement:** A dedicated Volunteer Portal allows volunteers to stay updated on rescued animals within the application's database, fostering participation in animal welfare initiatives.

**Open Communication:** A Contact Us page allows users to connect with the application's administrators for feedback, inquiries, or suggestions.

## 1.2 THE MERN STACK: A POWERFUL FOUNDATION

The MERN stack plays a pivotal role in bringing "The PAWsitive Friends" to life. Each component contributes its unique strengths. Here's a breakdown of each component and how they work together:

1. **MongoDB:** This is a NoSQL document database, offering flexibility and scalability for storing data. Unlike traditional relational databases with rigid structures, MongoDB allows data to be stored in JSON-like documents, making it ideal for storing information that can vary greatly in structure, like animal rescue reports in "The PAWsitive Friends" project.

**2. Express.js:** Express.js sits on top of Node.js, acting as a web application framework. It offers a streamlined way to build server-side functionality, handle routing (directing users to different parts of the application), and manage interactions with the database (MongoDB in this case). In "The PAWsitive Friends," Express.js handles tasks like receiving and processing animal rescue form data, sending search requests for nearby hospitals, and facilitating communication options with the chosen hospital.

**3. React.js:** React.js is a JavaScript library for building user interfaces. It employs a component-based approach, where complex UIs are broken down into smaller, reusable components. This simplifies development and promotes code maintainability. In "The PAWsitive Friends," React.js likely powers the

user interface you see in your web browser, including the animal rescue form, hospital search results, and volunteer portal.

4. **Node.js:** Node.js is a JavaScript runtime environment that allows you to run JavaScript code outside of a web browser. This enables building dynamic web applications where JavaScript code executes both on the server (Express.js) and on the client-side (React.js). In "The PAWsitive Friends," Node.js plays a crucial role in tying everything together. It allows both server-side communication (e.g., sending data to MongoDB) and client-side rendering of the dynamic UI elements in your application.

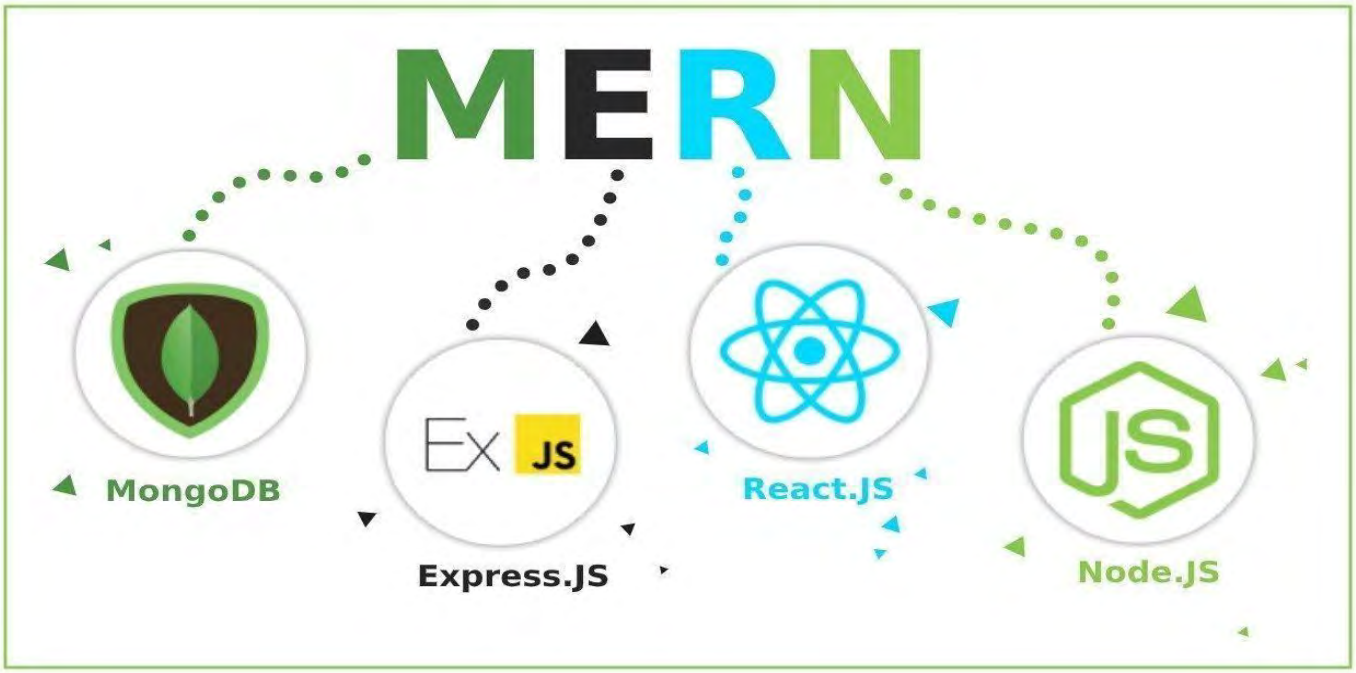



Fig: 1.2

The beauty of the MERN stack lies in its synergy. MongoDB provides flexible data storage, Express.js handles server-side logic, React.js builds the interactive UI, and Node.js ties it all together. This combination allows for rapid development of robust web applications, as seen in your "The PAWsitive Friends" project.

### 1.2.1 History of MERN Stack

The MERN stack doesn't have a single inventor or a specific year of creation. It emerged organically as individual technologies gained traction and developers saw the advantages of using them together. Here's a breakdown of the history of its key components:

**Early 2000s:** JavaScript starts gaining popularity as a web development language, but server-side functionality remained limited.

**2009:**

**MongoDB:** Launched as a NoSQL document database, offering a more flexible alternative to traditional relational databases for web applications.

**Node.js:** Introduced as a JavaScript runtime environment, enabling developers to run JavaScript code outside of web browsers, opening doors for server-side development with JavaScript.

**2010:**

Express.js emerges as a lightweight web application framework built on top of Node.js, simplifying server-side development.

**2013:**

**React.js:** Created by Facebook, React.js introduces a component-based approach for building user interfaces, making it easier to manage complex web app interfaces.

The term "MERN stack" is believed to be coined around this time, as developers recognized the synergy between these four technologies for building full-stack web applications entirely with JavaScript.

**Since then, the MERN stack has grown in popularity due to its:**

**JavaScript Expertise:** Developers can leverage their JavaScript knowledge across the entire application stack (front-end, back-end, database interactions).

**Open-Source Nature:** All components are open-source, making them free to use and fostering a large developer community for support and innovation.

**Rapid Development:** The combination of these technologies allows for building web applications quickly and efficiently.

While the MERN stack is a powerful choice, other JavaScript stacks like MEAN (using Angular instead of React) also exist. The choice between stacks depends on project requirements and developer preferences.

## 1.2.2 MERN Stack Features

**1. JavaScript Expertise:** A significant advantage of the MERN stack is the ability to leverage a single language (JavaScript) across the entire application stack. This simplifies development for teams familiar with JavaScript and reduces the need for context switching between different languages.

**2.Open-Source Nature:** All components of the MERN stack (MongoDB, Express.js, React.js, and Node.js) are open-source, meaning they are free to use and modify. This fosters a large and active developer community, providing readily available resources, tutorials, and support for troubleshooting.

**3.Rapid Development:** The MERN stack is known for its ability to facilitate rapid development. Several factors contribute to this:

**Pre**-built frameworks (Express.js and React.js) offer a foundation for building web applications, reducing boilerplate code and development time.

JavaScript's popularity leads to a vast pool of developers familiar with the language, further streamlining development.

The MERN stack's established architecture promotes a well-defined workflow for building web Applications

**4. Scalability:** Both MongoDB and Node.js are known for their scalability, meaning they can efficiently handle increasing data volumes and user traffic as the application grows. This is crucial for applications like "The PAWsitive Friends" that may witness a surge in usage over time.

## 1.3 MAIN FEATURES OF "The PAWsitive Friends" PROJECT

Streamlined Animal Rescue Reporting: Users can easily report injured animals by providing details like animal type, injury description, and an optional photo. This simplifies the process compared to traditional methods and ensures vital information is captured for effective response.

**Enhanced Location Detection:** Leveraging reverse geocoding, "The PAWsitive Friends" automatically detects the user's current location with a single click. This eliminates the need for manual address entry, saving time and improving accuracy.

**Nearby Veterinary Hospital Search:** Based on the user's location, the application searches for veterinary hospitals within a specified radius (e.g., 10 kilometres). It presents relevant details like hospital name, address, doctor's information (name, contact number, email address) to aid informed decision-making.

**Direct Communication Options:** Users can directly contact the chosen hospital through call, email, or WhatsApp, ensuring swift action in initiating medical care for the injured animal.

This eliminates communication delays and empowers users to take immediate action.

**Volunteer Engagement:** A dedicated Volunteer Portal allows volunteers to stay updated on rescued animals within the application's database. This fosters active participation in animal welfare efforts, potentially expanding the reach and impact of rescue initiatives.

These features, combined with the MERN stack's strengths, create a powerful and user-friendly platform for animal rescue. "The PAWsitive Friends" demonstrates the effectiveness of the MERN stack in building real-world applications with a positive social impact.

## 1.4 MERN STACK & MODEL-VIEW-TEMPLATE (MVT) ARCHITECTURE

While the MERN stack itself isn't a rigid framework, it aligns well with the Model View Template (MVT) architecture, fostering a well-organized and maintainable development process. Here's how each component in the MERN stack maps to the MVT layers:

**1. Model (MongoDB)**

Acts as the data layer of the application.

In "The PAWsitive Friends" project, MongoDB stores animal rescue data like animal type, injury description, location details, and potentially associated hospital information. MongoDB's NoSQL structure provides flexibility to accommodate diverse data without rigid schema definitions, making it ideal for web applications with evolving data requirements.

**2. View (React.js)**

Represents the user interface layer, directly responsible for what users see and interact with.

In "The PAWsitive Friends," React.js is used to create interactive components like:

The animal rescue form where users can enter details about injured animals.

Location detection button that leverages reverse geocoding.

Nearby hospital search results displaying hospital name, address, doctor information, and contact options.

The volunteer portal showing rescued animals within the database.

Redacts' component-based approach promotes code maintainability and facilitates efficient development of complex user interfaces.

**3. Template (Express.js)**

Functions as the controller layer, handling server-side logic and communication between the Model (MongoDB) and the View (React.js).

Express.js plays a crucial role in:

Processing animal rescue form data submitted by users.

Utilizing reverse geocoding to retrieve location details based on the "Get Current Location" button click.

**Interacting with MongoDB**

Storing animal rescue data.

Retrieving nearby hospital information based on the user's location.

Providing the necessary data to React.js components for dynamic UI rendering in the web browser.

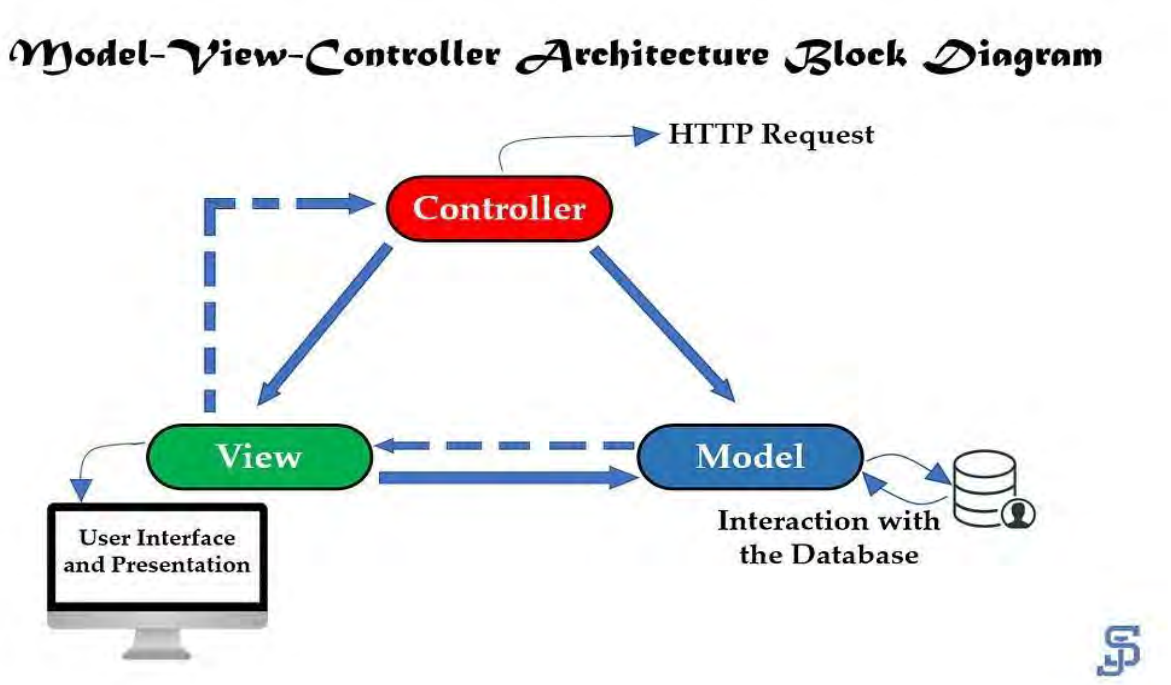



Fig. 1.3

### 1.4.1 Benefits of Using MERN Stack with MVT

**Clear Separation of Concerns**: MVT enforces a well-defined separation between data (Model), presentation (View), and application logic (Template). This makes the code base more organized, maintainable, and easier to test. Developers can work on different layers independently, improving efficiency.

**Reduced Complexity:** Each layer in the MVT architecture has specific responsibilities, simplifying development and fostering better understanding of the application's structure. **Flexibility:** The MERN stack and MVT offer flexibility in project design. You can use different UI frameworks like Angular or Vue.js instead of React.js, or explore alternative backend frameworks like Django or Flask alongside Express.js.

**Example:** "The PAWsitive Friends" Project with MERN and MVT Model (MongoDB) Stores all rescued animal data.

**View (React.js):** Renders user interface components like forms, search results, and portals.

**Template (Express.js):** Handles server-side tasks:-

- Processes animal rescue form data.
- Retrieves location details.
- Communicates with MongoDB for data storage and retrieval.
- Provides data to React.js components for UI rendering.
- By leveraging the MERN stack and the MVT architecture, "The PAWsitive Friends" achieves a streamlined and user-friendly animal rescue process. This combination promotes code maintainability and scalability, enabling the application to adapt to future growth and potential feature expansion.

# CHAPTER-02

# HARDWARE & SOFWARE REQUIRMENTS SPECIFICATION

## 2.1 HARDWARE SPECIFICATIONS

The hardware requirements for the project are specified in the following table:

| Items | Descriptions |
|---|---|
| **1. Server/Hosting** | A dedicated server with sufficient power, RAM and storage capacity |
| **2. Workstations** | computers with RAM: 8GB or higher<br>SSD: 256GB or higher<br>Storage: 256GB or higher |
| **3. Internet Connectivity** | High Speed internet connection for online access |
| **4. Processor Brand** | Intel(R) Core (TM) i5-4300U or any other processor compatible |

Table 2.1 H/w Requirements

## 2.2 SOFTWARE SPECIFICATIONS

| Items | Descriptions |
|---|---|
| **1. Server Connectivity** | Nodejs, ExpressJS |
| **2. Database** | MognoDB |
| **3. Code Editor** | VsCode |
| **4. Web Browser** | Chrome, Microsoft Edge or any other web browser |
| **5. Operating System** | Windows 10, Windows 11 |

Table 2.2 S/w Requirements

# CHAPTER-03

# SYSTEM ANALYSIS

## 3.1 SYSTEM ANALYSIS OF "The PAWsitive Friends"

Traditional animal rescue efforts often rely on manual reporting systems, leading to inefficiencies. Paper forms, phone calls, and emails can result in limited data capture, delayed communication, and challenges in coordinating responses. "The PAWsitive Friends" aims to revolutionize this process by establishing a centralized, digital platform to streamline animal rescue.

**System Functionality:** The core functionality of "The PAWsitive Friends" revolves around facilitating efficient animal rescue reporting and connecting users with veterinary resources. Here's a breakdown of the system's key features:

**User-Friendly Reporting:** The system provides a user-friendly interface for citizens to report injured animals. They can submit details like animal type, injury description (if applicable), and location data (automatically captured through reverse geocoding or manual address entry). Optionally, users can upload photos or videos of the injured animal to provide further information.

**Location-Based Search:** By leveraging the user's location, the system searches for nearby veterinary hospitals within a specified radius. This eliminates the need for manual hospital searches, saving time and effort during critical moments.

**Comprehensive Hospital Information:** Upon finding nearby hospitals, the system displays relevant details for each facility. Users can access hospital names, addresses, doctor information (including contact details), and various communication options (phone call, email, WhatsApp). This empowers users to make informed decisions and contact the most suitable hospital for the animal's needs.

**Direct Communication Options:** The system streamlines communication by providing direct contact options for chosen hospitals. Users can directly initiate contact through phone calls, emails, or WhatsApp messages, ensuring swift action in getting injured animals the medical attention they require.

**Non-Functional Considerations:**

While core functionalities address animal rescue and communication, the system must also meet broader quality standards:

**Performance:** The application should prioritize fast loading times and a responsive user experience across various devices (desktop, mobile). This ensures seamless interaction for users in time-sensitive situations.

**Security:** User data, animal rescue reports, and hospital information must be secured with robust authentication, authorization, and data encryption mechanisms. Protecting sensitive data is paramount for user trust and maintaining system integrity.

**Scalability:** The system should be built to handle increasing user traffic and data volume as the platform gains popularity. Cloud-based infrastructure can be explored to ensure scalability and accommodate future growth.

**Usability:** The user interface should be intuitive, easy to navigate, and accessible for users with varying levels of technical expertise. This promotes widespread adoption and simplifies the animal rescue process for everyone.

**Availability:** The application should strive for high availability, minimizing downtime for maintenance or upgrades. Implementing a robust deployment strategy with backups and disaster recovery plans is crucial to guarantee uninterrupted service.

### 3.1.1 IDENTIFICATION OF NEED

Identification of Needs for "The PAWsitive Friends"

This section delves into the identification of needs for "The PAWsitive Friends" web application. Here, we'll explore the challenges faced by various stakeholders in the current animal rescue landscape and how "The PAWsitive Friends" aims to address them.

### 1. Needs of Citizens Reporting Injured Animals

**Inefficient Reporting Systems:** Traditional methods like phone calls, emails, or paper forms often lead to incomplete or inaccurate data capture.

**Delayed Response Times:** Manual reporting processes can result in delays in reaching veterinary care for injured animals.

**Limited Information Sharing:** Citizens might not have access to a centralized platform to share photos or detailed descriptions of injured animals, hindering proper assessment by rescue organizations.

### 2. Needs of Animal Welfare Organizations

**Streamlined Reporting Management:** A lack of centralized reporting can make it difficult to manage animal rescue requests efficiently.

**Improved Data Collection:** Capturing comprehensive and accurate data about injured animals is crucial for prioritizing cases and allocating resources effectively.

**Faster Response Coordination:** Animal welfare organizations need efficient tools to coordinate responses with veterinary hospitals and volunteers.

## 3. Needs of Veterinarians

**Real-Time Animal Rescue Information:** Access to a real-time database of animal rescue reports could enable veterinarians to prepare for incoming cases and provide faster medical attention.

**Secure Communication Channels:** Secure communication channels between shelters, hospitals, and finders are essential for coordinating care effectively.

## 4. Needs of Volunteers

**Volunteer Engagement Platform:** A dedicated platform is needed to connect volunteers with animal rescue efforts based on their skills and availability.

**Clear Communication and Updates:** Volunteers require clear communication and updates about rescued animals to participate effectively in rescue efforts.

**How "The PAWsitive Friends" Addresses These Needs:** "The PAWsitive Friends" directly addresses these identified needs by providing a user-friendly platform that:

- Offers a streamlined reporting system for citizens to submit detailed animal rescue reports with photos or videos.
- Utilizes reverse geocoding for automatic location capture, facilitating faster response times. Enables animal welfare organizations to manage reports efficiently, prioritize cases, and coordinate responses with hospitals and volunteers.
- (Optional) Provides a platform for veterinarians to access animal rescue reports and potentially establish secure communication channels with shelters and finders.
- (Optional) Offers a Volunteer Portal for volunteers to stay updated on rescued animals and participate in rescue efforts as needed.
- By fulfilling these needs, "The PAWsitive Friends" aims to revolutionize animal rescue efforts, fostering faster response times, improved communication, and a more coordinated approach to animal welfare.

## 3.2 PRELIMINARY INVESTIGATION

Preliminary Investigation for "The PAWsitive Friends"

The preliminary investigation for "The PAWsitive Friends" web application lays the groundwork for system analysis. Here, we'll explore the initial steps taken to understand the problem domain, identify project feasibility, and define the scope of the system.

### 1. Understanding the Problem Domain

**Research:** Through research on animal rescue efforts, we identified common challenges faced by citizens, animal welfare organizations, and potentially veterinarians and volunteers. This involved reviewing existing literature, news articles, and reports focused on animal rescue inefficiencies.

**Stakeholder Interviews:** Conducting interviews with representatives from animal shelters, rescue organizations, and potentially veterinarians, allowed us to gain deeper insights into their specific needs and pain points regarding animal rescue processes.

### 2. Feasibility Analysis

**Technical Feasibility:** We evaluated the technical feasibility of developing the application by assessing the availability of necessary technologies (e.g., web development frameworks, mapping APIs) and the development team's skillset.

**Economic Feasibility:** An initial cost-benefit analysis was conducted to estimate development and maintenance costs, along with potential benefits in terms of improved efficiency and animal welfare outcomes.

**Operational Feasibility:** Assessing the operational feasibility involved considering the potential impact on existing workflows of animal welfare organizations and how the application would integrate with their current processes.

### 3. Project Scope Definition

Based on the findings from the problem domain understanding and feasibility analysis, the initial project scope for "The PAWsitive Friends" was defined. This scope outlines the core functionalities to be developed in the initial phase of the project. Here's a possible breakdown:

**(i) Citizen Reporting:** A user-friendly interface for citizens to report injured animals, including details like type, injury description (optional), and location (automatic capture through reverse geocoding or manual entry). Photo or video upload functionality can be considered based on feasibility.

**(ii) Nearby Hospital Search:** Utilizing the user's location, the system searches for nearby veterinary hospitals within a specified radius.

**(iii) Hospital Details Display:** Users can view hospital names, addresses, doctor information (including contact details), and various communication options (phone call, email, WhatsApp).

**(iv) Direct Communication Options:** Users can directly contact chosen hospitals through integrated communication methods.

Optional Features (to be considered based on feasibility and future phases):

**Volunteer Portal:** A dedicated platform for volunteers to connect with rescue efforts and potentially manage their involvement.

**Veterinarian Access:** A secure login for veterinarians to access a real-time database of animal rescue reports (if deemed feasible and compliant with regulations).

## 4. Project Deliverables

**Following the preliminary investigation, the key deliverables include:**

- A comprehensive report outlining the findings from the problem domain research, stakeholder interviews, and feasibility analysis.
- A well-defined project scope document specifying the core functionalities of the initial development phase.
- A high-level system architecture diagram depicting the main components of the application and their interactions.

# CHAPTER-04

# FEASIBILITY STUDY

The feasibility study is performed to determine whether the proposed system is viable considering the Technical, Operational and Economical factors. Feasibility study is a procedure that identifies, describes and evaluates the system. An estimate is made of whether the identified user needs may be satisfied using current software and hardware technologies.

The feasibility study for “PAWsitive Friends” project involves assessing the technical, economic, and operational aspects to determine whether implementing the system is viable.

## 4.1 TECHNICAL FEASIBILITY

**Technical Feasibility for "The PAWsitive Friends"**

The technical feasibility analysis assesses the resources and expertise required to successfully develop and maintain the "The PAWsitive Friends" web application. This section evaluates whether the project can be built with available technologies and the development team's skills within the designated timeframe and resource constraints.
Here's a breakdown of the key factors to consider:

## 1.Technology Requirements

**Front-End Development:** Identify suitable front-end development frameworks (e.g., React, Angular, Vue.js) to create a user-friendly and responsive interface.
**Back-End Development:** Evaluate back-end technologies like web development frameworks (e.g., Django, Ruby on Rails) and programming languages (e.g., Python, JavaScript) for server-side logic and data management.
**Database Management:** Choose a robust database management system (e.g., MySQL, PostgreSQL) to store animal rescue reports, user information, and potentially hospital data (if applicable).
**Mapping API:** Integrate a mapping API (e.g., Google Maps API) to enable location-based features like user location capture and nearby hospital searches.
**Security Protocols:** Assess and implement necessary security protocols like user authentication and authorization, data encryption, and secure communication channels to protect sensitive user data and animal rescue information.

## 2. Technology Adoption and Maintenance

**Technology Maturity:** Consider the maturity of chosen technologies to ensure they are stable and well-supported. Opting for established technologies can minimize development risks and simplify maintenance.

**Ongoing Maintenance:** Factor in the ongoing maintenance required for chosen technologies and libraries. This includes software updates, bug fixes, and potential security patches to maintain the application's functionality and security.

**Scalability:** Evaluate the scalability of the chosen technologies to ensure the application can handle increasing user traffic and data volume as the platform gains popularity. Cloud infrastructure may be a viable option for scalability.

# 4.2 ECONOMIC FEASIBILITY

**Economic Feasibility for "The PAWsitive Friends"**

The economic feasibility analysis assesses the financial viability of developing and maintaining the "The PAWsitive Friends" web application. Here, we'll evaluate the potential costs associated with the project and explore possible revenue streams to determine its financial sustainability.

## 1.Development Costs

**Software Licenses:** Factor in GOOGLE MAP API software licenses for development tools, frameworks, or libraries required for the project. Open-source alternatives can help minimize these costs.

## 2. Ongoing Maintenance Costs

**Server Maintenance:** Factor in ongoing costs associated with server maintenance, including upgrades, security patches, and potential disaster recovery plans.

**Software Updates:** Budget for software updates and maintenance fees for chosen technologies and libraries to ensure ongoing functionality and security.

**Bug Fixes and Support:** Allocate resources for ongoing bug fixes and user support to maintain a positive user experience.

# 4.3 OPERATIONAL FEASIBILITY

**Operational Feasibility for "The PAWsitive Friends"**

The operational feasibility analysis of "The PAWsitive Friends" evaluates how the application integrates with existing workflows and capabilities of animal welfare organizations and other stakeholders. This section assesses the practicality of implementing the application within the current operational environment.

## 1. Workflow Integration

**Current Animal Rescue Processes:** Analyse how animal rescue efforts are currently conducted in shelters and organizations. This includes understanding the typical steps involved in receiving reports, assigning resources, and coordinating rescue efforts.

**Impact on Existing Workflows:** Evaluate how "The PAWsitive Friends" integrates with existing workflows. Will it necessitate significant changes to current processes, or can it adapt seamlessly to established practices?

**Workflow Enhancements:** Identify potential workflow improvements that the application can facilitate. This could involve streamlining reporting, automating data collection, or improving communication between different stakeholders.

## 2. User Adoption

**Target User Base:** Identify the primary and secondary user groups for the application (citizens, animal welfare organizations, veterinarians, volunteers).

**User Needs and Expectations:** Understand the specific needs and expectations of each user group. What are the key functionalities they require from the application, and how will it benefit them in their roles?

**Adoption Strategy:** Develop a strategy to encourage user adoption. This may involve user training programs, educational materials, and potentially in-app tutorials to ensure users understand the application's functionalities and benefits.

## 3. Training and Support

**Training Needs Assessment:** Evaluate the training needs of each user group. Animal welfare organizations might require training on managing reports within the system, while citizens may need guidance on utilizing the reporting features effectively.

**Training Materials Development:** Develop comprehensive training materials such as user manuals, video tutorials, or online courses to educate users on the application's functionalities and best practices.

**Ongoing Support:** Establish a system for ongoing user support. This could involve a dedicated help desk, online forums, or a knowledge base with frequently asked questions (FAQs) to address user inquiries and troubleshoot any issues.

# CHAPTER-05

# ANALYSIS

## 5.1 FEASIBILITY STUDY

**Project Name:** The PAWsitive Friends

**Project Description:** A web application that facilitates animal rescue efforts by allowing citizens to report injured animals and connecting them with nearby veterinary hospitals.

### 5.1.1 Technical Feasibility

Technologies: Development is feasible with readily available web development frameworks (e.g., Django, Ruby on Rails) and mapping APIs (e.g., Google Maps API). Security protocols like user authentication and data encryption are crucial.

Development Team Expertise: The team should possess skills in chosen frameworks, backend development (e.g., Python, JavaScript), and security best practices.

Technology Adoption and Maintenance: Established technologies minimize risks and simplify maintenance. Ongoing updates and bug fixes will be required.

Scalability: Cloud-based infrastructure can be explored to ensure the application can handle increasing user traffic and data volume as the platform gains popularity.

### 5.1.2 Economic Feasibility

Development Costs: Personnel costs, software licenses, and infrastructure expenses need to be estimated. Open-source alternatives can help minimize costs.

Ongoing Maintenance Costs: Server maintenance, software updates, and bug fixes require budgeting.

Revenue Streams (Optional): Potential revenue models include premium features, subscriptions, or partnerships with animal welfare organizations (consider regulations).

Exploring grants or donations might be necessary.

### 5.1.3 Operational Feasibility

Workflow Integration: Analyse how the application integrates with existing workflows of animal welfare organizations. Training and potential workflow adjustments might be needed. User Adoption: Strategies to encourage user adoption include user training programs, educational materials, and in-app tutorials for citizens and organizations.

Training and Support: Develop user manuals, video tutorials, or online courses to educate users on functionalities and best practices. A dedicated help desk or online forums can provide ongoing support.

### Overall Feasibility

Based on the analysis, the project is technically feasible with readily available technologies. Economic feasibility depends on development choices and the potential for generating revenue or securing funding. Operational feasibility requires careful consideration of workflow integration, user adoption strategies, and ongoing support.

Overall, "The PAWsitive Friends" has strong potential to be a successful and impactful application. A well-defined development plan, cost analysis, and user adoption strategy are crucial for project success.

## 5.2 DFD-0

A Data Flow Diagram (DFD) is a graphical representation of the flow of data through a system. DFD-0 is the highest level of DFD and represents the overall system as a single process, with the main inputs and outputs.

For the project "The PAWsitive friends," here's a DFD-0 along with an explanation:

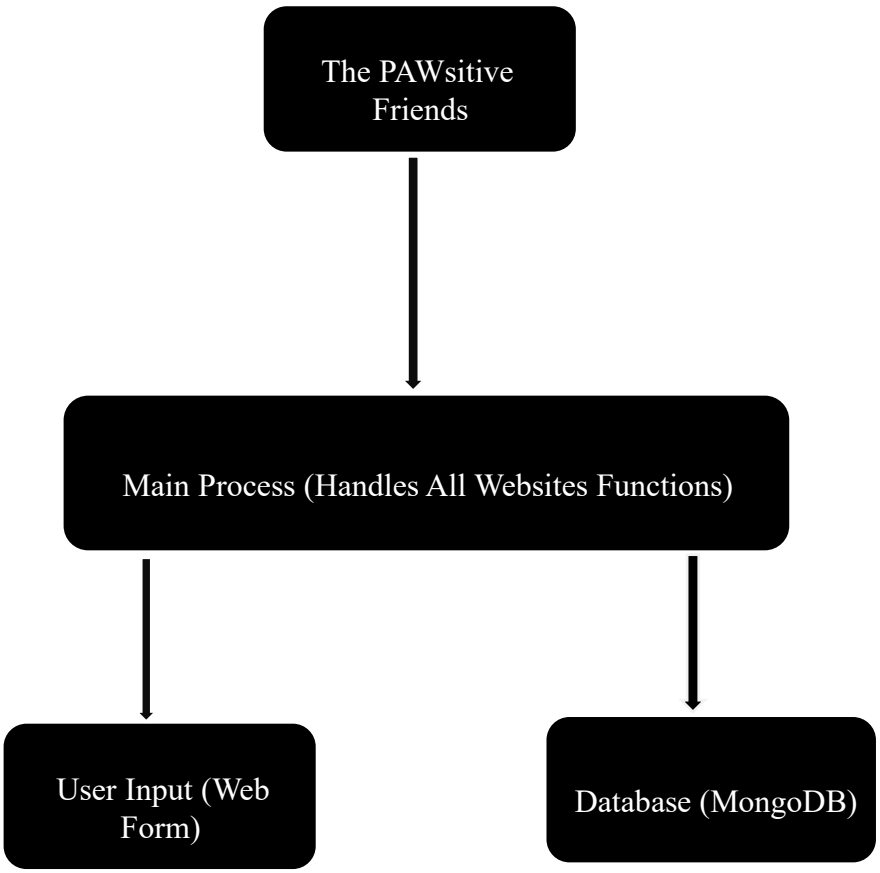



Fig 5.1

## Explanation:

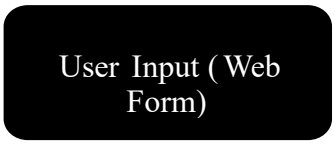
**Main Process:** This is the main process of the system, representing the entire website functionality of "The PAWsitive friends" project.




**User Input (Web Forms):** This represents the various forms available on different pages of the website such as the rescue page, contact us page, etc. Users input data like animal details, location, volunteer information, and contact details here.




**Database (MongoDB):** This represents the MongoDB database where all the data from the website is stored. It includes rescued animal details, user queries from the contact us page, and any other relevant information.




**Arrows:** Arrows between components represent the flow of data. For example, data flows from user input to the main process, and then to the database for storage.



This DFD-0 provides a high-level overview of how data flows through the system. In your project report's analysis chapter, you can use this diagram to explain the key components and interactions within your system.

## 5.3 DFD 1

A DFD-1 provides a more detailed view of the system by breaking down the main process into subprocesses and showing how data flows between them. Here's a DFD-1 for "The PAWsitive friends" project

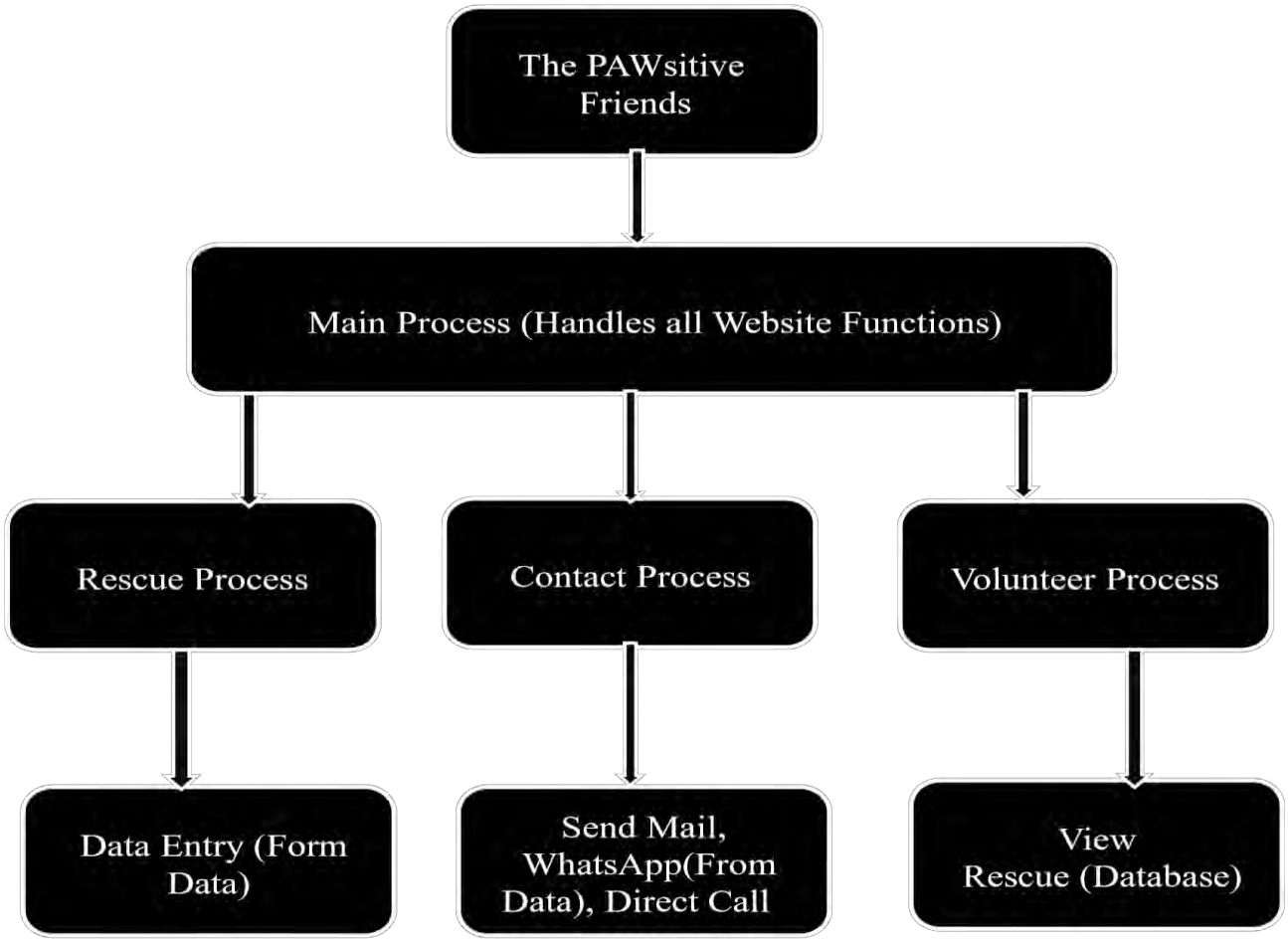



Fig 5.2

## Explanation:

**Main Process:** This is the main process of the system, handling all website functions. It comprises three subprocesses:

**Rescue Process:** This subprocess deals with rescuing animals. It involves data entry of animal details into the system.

**Contact Process:** This subprocess handles user queries from the contact us page. It involves sending emails to the website's email address.

**Volunteer Process:** This subprocess manages volunteer-related functionalities. It involves viewing rescued animals' details stored in the database.

**Data Entry (Form):** This subprocess within the Rescue Process represents the form where users input details about injured animals, including type, injury description, and photos. **Send Mail (Form Data):** This subprocess within the Contact Process represents the form data entered by users when submitting queries. It includes their name, contact number, email address, and query.

**View Rescues (Database):** This subprocess within the Volunteer Process represents retrieving and viewing rescued animals' details stored in the database.

Arrows indicate the flow of data between subprocesses and between subprocesses and the main process. For example, data entered in the rescue form flows to the main process, which then stores it in the database. Now can use this DFD-1 in the project report to provide a detailed understanding of how different processes interact within your system.

## 5.4 Table Structure

The table structure defines the organization and storage of data within the MongoDB database for the "PAWsitive Friends" project. This section outlines the collection and its properties, as well as the structure of the nearby hospitals data stored in a JSON file.

### Collection

**Animal Rescue Requests:** This MongoDB collection stores information about animal rescue requests submitted by users of the platform.

**Name:** Animal Rescue Requests

**Definition Type:** Regular collection, **Size**: 4.1 KB

Usage: Records animal rescue request details, including type of animal, location, and status.

Properties: Primary key (id) is automatically generated and indexed with a unique constraint.

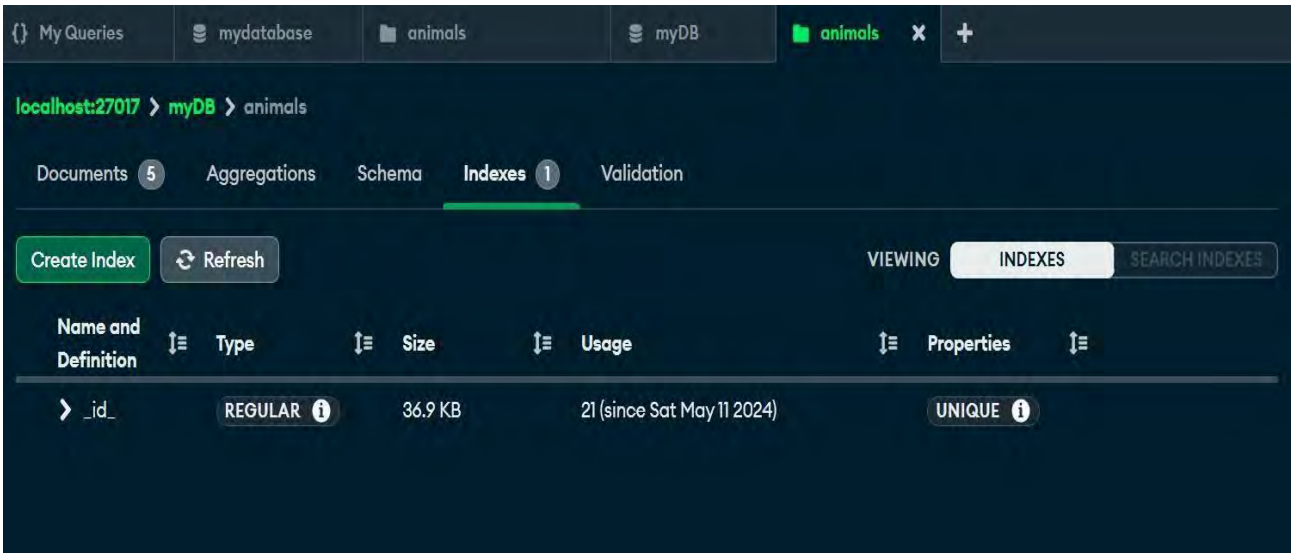



*Fig 5.3*

**Nearby Hospitals JSON File**

The nearby hospitals data is stored in a JSON file containing information about veterinary hospitals and clinics located in the vicinity. **File Name: nearby hospitals. Json Format:** JSON (JavaScript Object Notation) **Content:**


```
[
  {
    "name": "Hospital 5",
    "address": "789 Elm St, City Mohalin 2",
    "doctorPhone": "555-555-999",
    "location": {“lat": 30.900975, "lng": 75.8672758}
  },
  {
    "name": "Hospital Guru",
    "address": "789 Elm, City Mohali, Punjab",
    "doctorPhone": "8278750889",
    "doctorName": "Dr. Aman",
    "email": "amandeep@gmai.com",
    "location": {“lat": 30.7280021, “lng": 76.6975746}
  }
]
```


The table structure encompasses the MongoDB collection used to store animal rescue requests and the format of the nearby hospitals data stored in a JSON file. By defining the collection properties and structure of external data sources, the database schema facilitates efficient storage, retrieval, and manipulation of information relevant to animal rescue operations and veterinary services within the "PAWsitive Friends" platform.

# CHAPTER-06

# SOFTWARE ENGINEERING PARADIGM APPLIED

## 6.1 S/W ENGINEERING & PARADIGM APPLIED

Software Engineering and Paradigms Applied in "The PAWsitive Friends". This chapter explores the software engineering principles and paradigms employed in developing "The PAWsitive Friends" web application. We'll delve into the development approach, the chosen paradigms, and how they contribute to the overall functionality and maintainability of the system.

## 1. Development Approach

"The PAWsitive Friends" utilizes a structured development approach, emphasizing well-defined phases and deliverables.

**This approach promotes:**

**Clear Project Lifecycle:** The development process is divided into stages like requirements gathering, system design, development, testing, and deployment.

**Phased Development:** Complex functionalities can be implemented in phases, allowing for iterative development and testing cycles.

**Improved Maintainability:** Clear code documentation and modular design principles ensure easier maintenance and future enhancements.

## 2.Applied Paradigms

**Object-Oriented Programming (OOP):** OOP serves as the primary programming paradigm for "The PAWsitive Friends." Here's how it benefits the project:

**Data Encapsulation:** Data (animal rescue reports, hospital information) is encapsulated within objects, promoting data integrity and security.

**Code Reusability:** OOP principles like inheritance and polymorphism enable code reuse and efficient development, especially for handling different types of users (citizens, organizations).

**Modular Design:** The application can be divided into well-defined objects representing functionalities (reporting, hospital search), improving maintainability.

OOP and the chosen web development framework offer several advantages for "The PAWsitive Friends":

**Maintainability:** Modular design and code reusability principles make the application easier to maintain and update in the future.

**Scalability:** OOP allows for efficient handling of increasing data volume and user traffic as the platform grows.

**Flexibility:** The system can be easily extended with new functionalities by adding new objects or leveraging framework features.

**Development Efficiency:** Web development frameworks provide pre-built components and functionalities, accelerating development and reducing time-to-market.

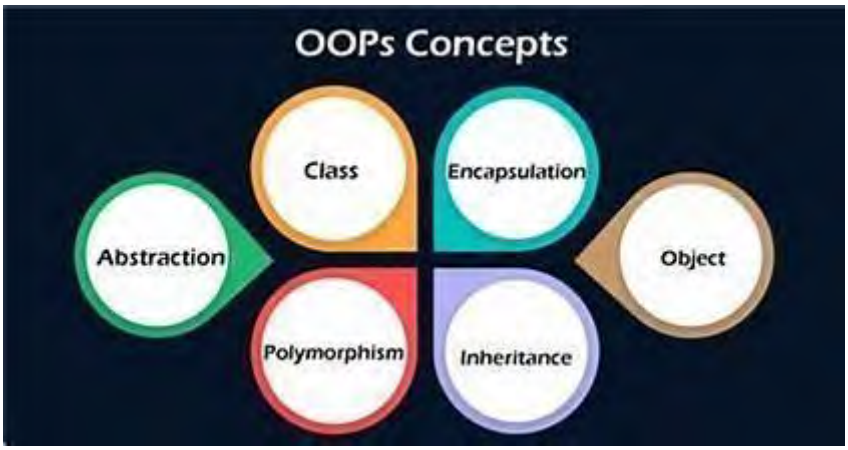



Fig 6.1

**Conclusion:**

By adopting a structured development approach and employing object-oriented programming principles, "The PAWsitive Friends" is built on a solid foundation for maintainability, scalability, and future enhancements. The chosen paradigms contribute to the overall effectiveness of the application in achieving its goals of streamlining animal rescue efforts and fostering better animal welfare outcomes.

# CHAPTER-07
# SYSTEM DESIGN

## 7.1 SYSTEM DESIGN

**System Design for "The PAWsitive Friends"**

The system design chapter outlines the architectural blueprint for "The PAWsitive Friends" web application. Here, we'll explore the system's components, their interactions, and the chosen technologies that bring the application to life.

## 1. System Architecture

"The PAWsitive Friends" utilizes a multi-tier architecture, separating the application into distinct layers that promote modularity, scalability, and maintainability. Here's a breakdown of the typical layers:

**Presentation Layer (Frontend):** This layer handles the user interface (UI) elements that citizens, animal welfare organizations, and (potentially) volunteers interact with. Technologies like HTML, CSS, and JavaScript frameworks (e.g., React, Angular) are commonly used for frontend development.

**Business Logic Layer (Backend):** This layer contains the core functionalities of the application, processing user requests, interacting with the database, and implementing business logic. Programming languages like Python, Java, or JavaScript (Node.js) are often used for backend development.

**Data Access Layer (Database):** This layer stores all application data, including animal rescue reports, hospital information, user details (if applicable), and potentially volunteer data (if applicable). A robust database management system (DBMS) like MySQL, PostgreSQL, or MongoDB is typically chosen.

**Additional Considerations:**

API Layer (Optional): An API layer can be implemented to facilitate communication between "The PAWsitive Friends" and external systems, such as veterinary hospital management software (if applicable).

Security Layer: Security measures are integrated throughout the system architecture to protect user data and system integrity. This may involve authentication protocols, authorization mechanisms, and secure data encryption practices.

## 2. Technology Stack

The technology stack refers to the specific set of technologies chosen to develop and deploy the application. Here's a possible technology stack for "The PAWsitive Friends": **Frontend:** A popular JavaScript framework like React or Angular can be used to build a responsive and user-friendly interface.

**Backend:** Python with a web development framework like Django or Flask can provide a robust and efficient backend for handling server-side logic and database interactions. **Database:** MongoDB or PostgreSQL are widely used, offering strong performance and scalability for web applications.

**Mapping API:** Integration with a mapping API like Google Maps API is essential for location-based functionalities like user location capture and nearby hospital searches. **Additional Tools**: Version control systems (e.g., Git) and project management tools (e.g., Jira, Trello) can streamline development and collaboration.

**Choosing the Right Technologies:** The specific technologies chosen will depend on factors like project requirements, developer expertise, scalability needs, and security considerations.

## 3. System Interfaces

**User Interface (UI):** The UI provides citizens, animal welfare organizations, and (potentially) volunteers with a user-friendly interface to interact with the application's functionalities. This may involve forms for reporting injured animals, viewing nearby hospitals, and potentially managing volunteer activities (if applicable).

**Database Interfaces:** The backend interacts with the database using appropriate APIs or libraries provided by the chosen DBMS to store, retrieve, and manipulate application data. External APIs (Optional): The system might interact with external APIs for functionalities like integrating with veterinary hospital management software (if applicable) or using third-party services for specific tasks.

## 4. System Design Considerations

**Securit**y: Secure coding practices, user authentication, authorization mechanisms, and data encryption are crucial to protect user data and system integrity.

**Scalability:** The system architecture should be designed to accommodate increasing user traffic and data volume as the platform gains popularity. Cloud-based infrastructure can be a viable option for scalability.

**Performance:** The application's performance should be optimized to ensure fast loading times and responsiveness under various user loads.

By adopting a well-defined multi-tier architecture, utilizing appropriate technologies, and considering essential design principles, "The PAWsitive Friends" lays the groundwork for a secure, scalable, and performant web application that effectively supports animal rescue efforts. This system design provides a solid foundation for the development of a user-centric and impactful application.

# CHAPTER-08

# SCREENSHOTS

## 8.1 HOME PAGE

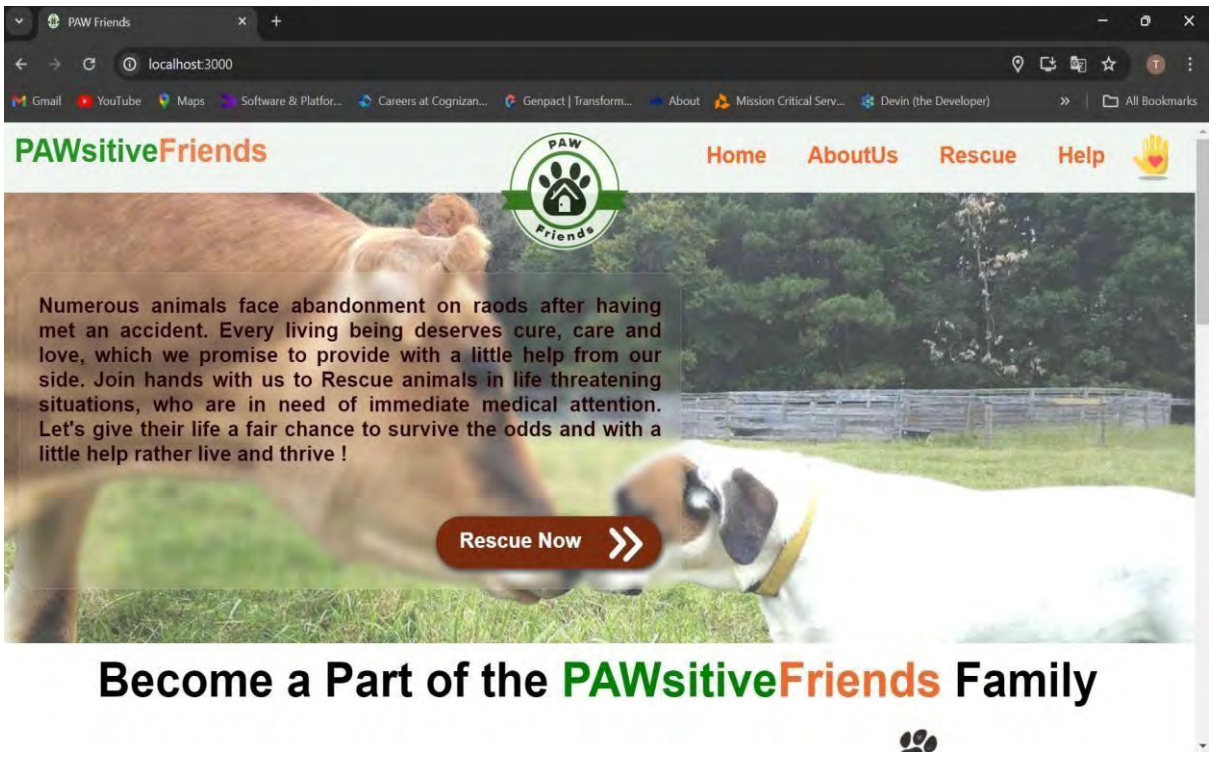



Fig:8.1

After clicking on Rescue Button will go to the “Rescue” Page




Fig:8.2

## 8.2.FOOTER SECTION

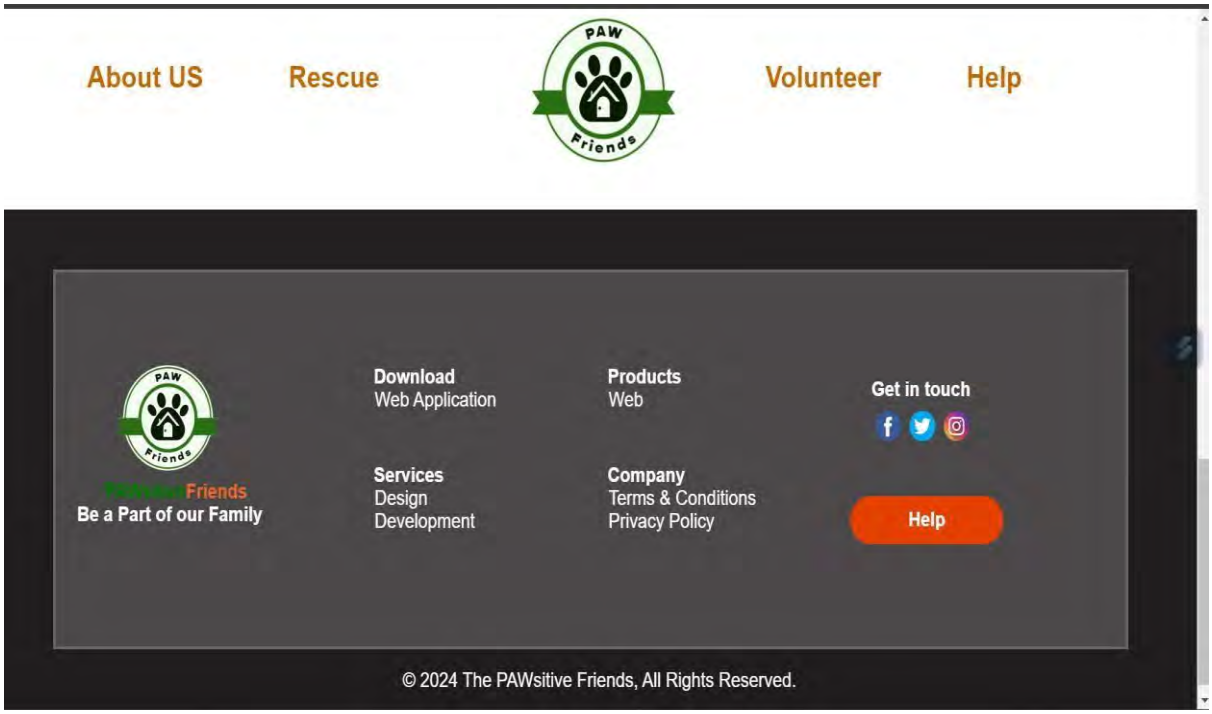



Fig:8.3

## 8.3. ABOUT US PAGE

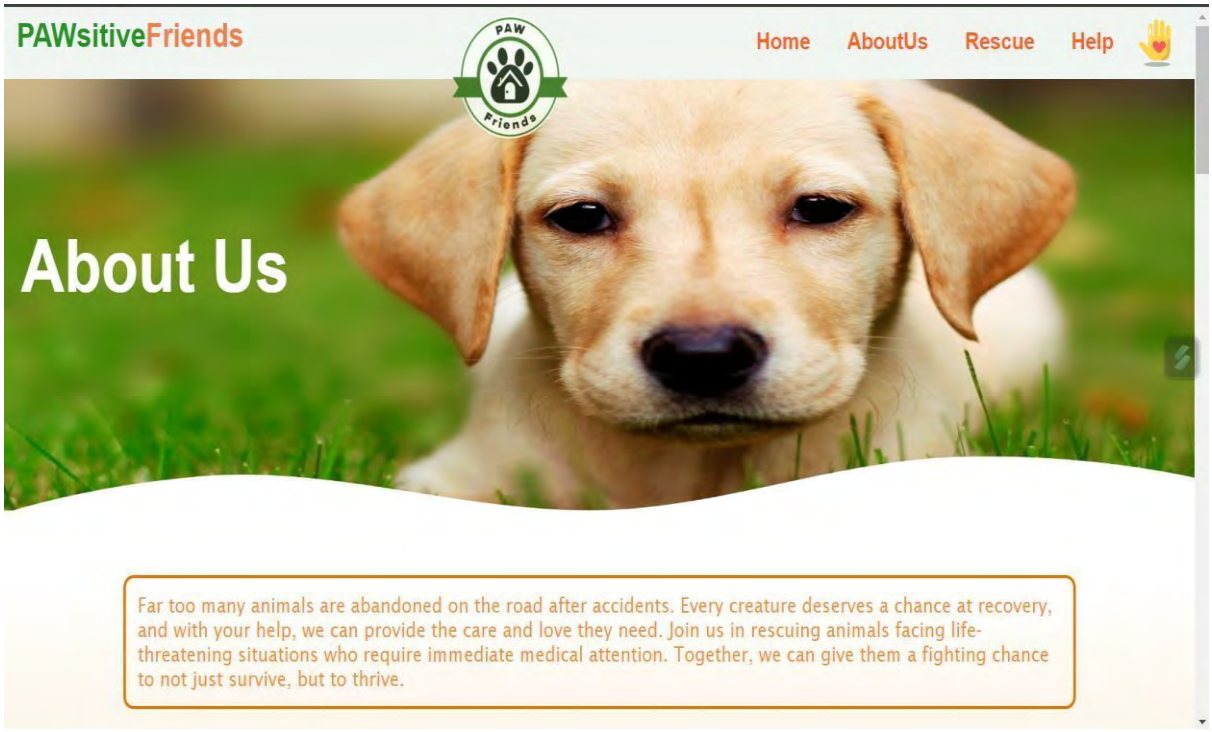



Fig:8.4


Our Mission
"The PAWsitive Friends is dedicated to creating a more compassionate world for animals by empowering communities to take action. We strive to reunite lost pets with their families, connect loving adopters with deserving companions, and streamline animal rescue efforts through innovative technology. By providing an accessible platform for reporting injured animals, locating nearby veterinary care, and fostering collaboration between citizens and animal welfare organizations, we aim to significantly improve animal welfare outcomes. Join us in making a difference, one pawsitive step at a time."
What We Do?
Do you see an animal in need? We can help! We connect animals requiring urgent veterinary care with compassionate veterinary professionals who can provide relief. If you encounter an injured animal or one experiencing a serious medical issue: • Call us on dial toll-free number1962. • Alternatively, you can go to our Rescue page with details about the animal's situation, preferable with a clear picture of their current situation. Our team of dedicated volunteers will be dispatched immediately to help the animal in distress.

Fig:8.5

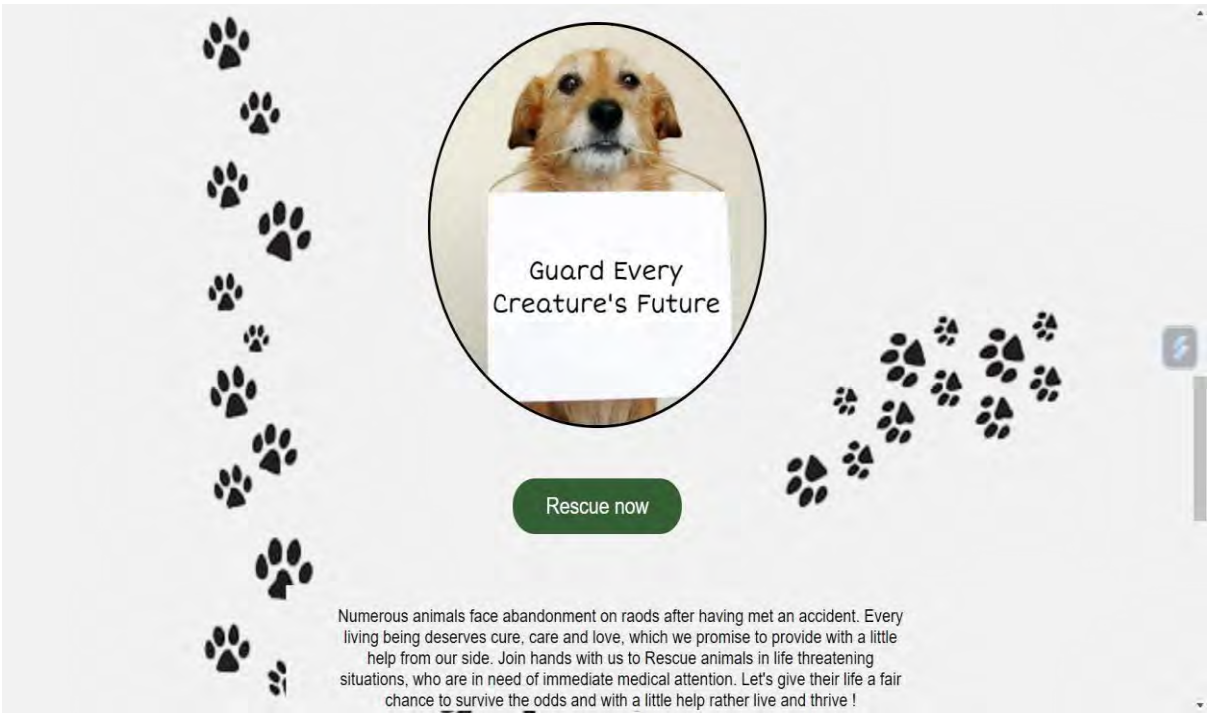

Guard Every Creature's Future
Rescue now
Numerous animals face abandonment on raods after having met an accident. Every living being deserves cure, care and love, which we promise to provide with a little help from our side. Join hands with us to Rescue animals in life threatening situations, who are in need of immediate medical attention. Let's give their life a fair chance to survive the odds and with a little help rather live and thrive !

Fig:8.6

## 8.4. RESCUE PAGE




Fig:8.7

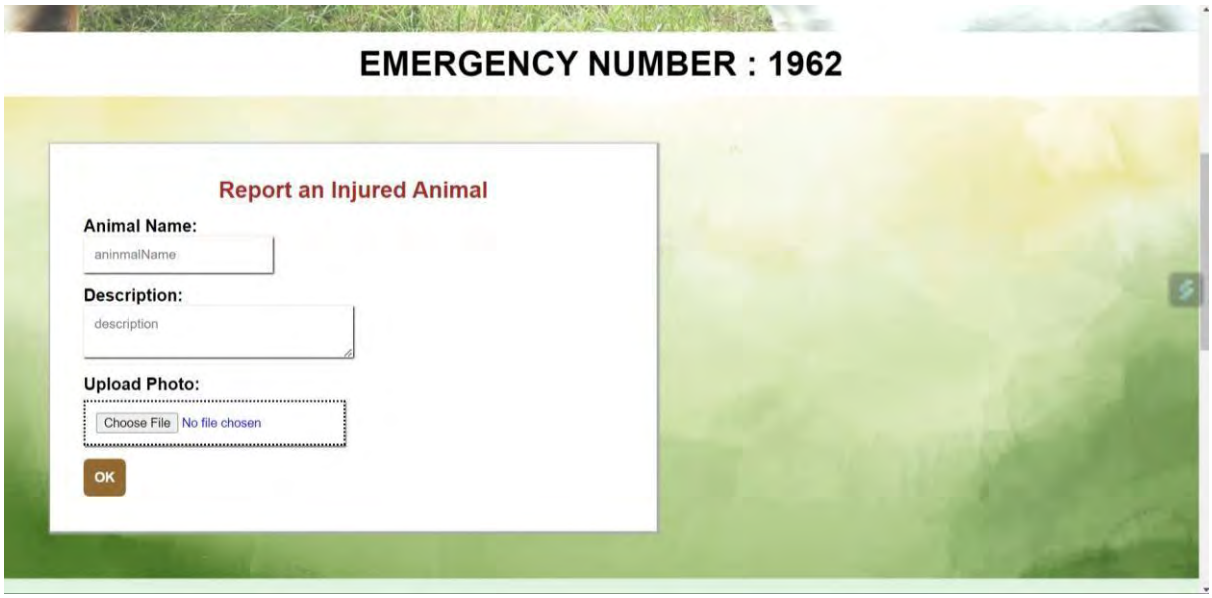



Fig:8.8

After clicking on “OK” button, the Form fields directly “POST” in the database through backend




Fig:8.9

After Clicking on "Get Current Location" button the current location of the user will display.

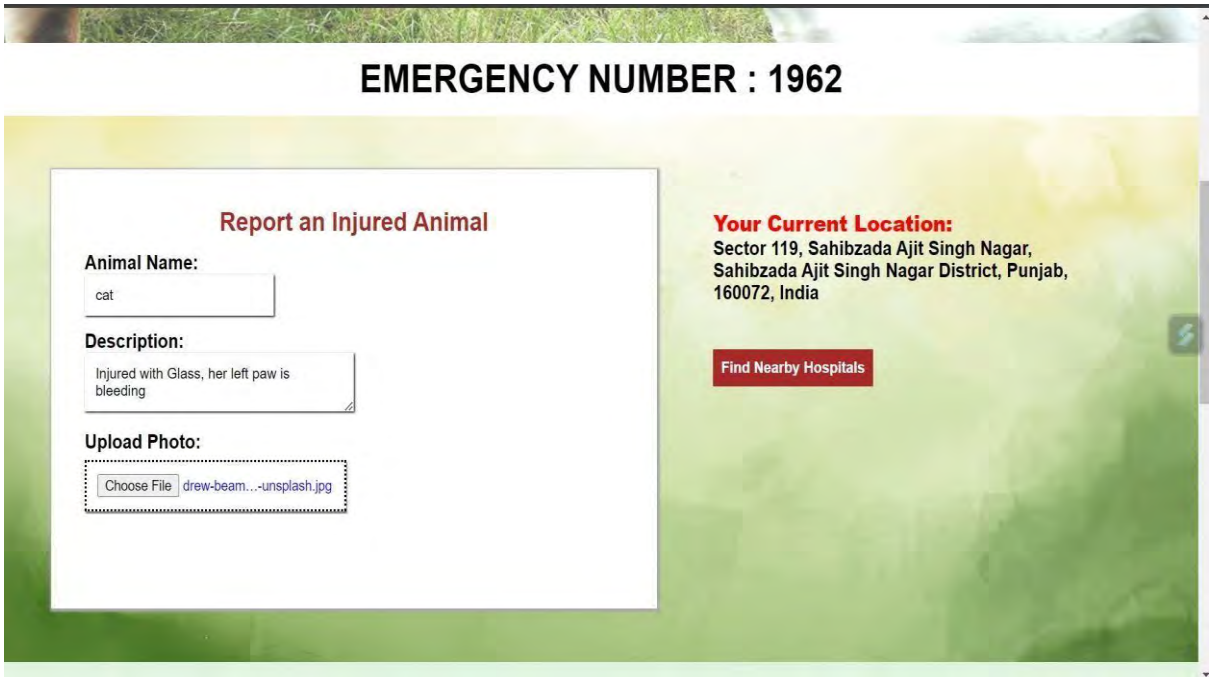



Fig:8.10

And when click on "Find Nearby Hospitals" button the user will get the list of nearby hospitals under 10 kilometres.

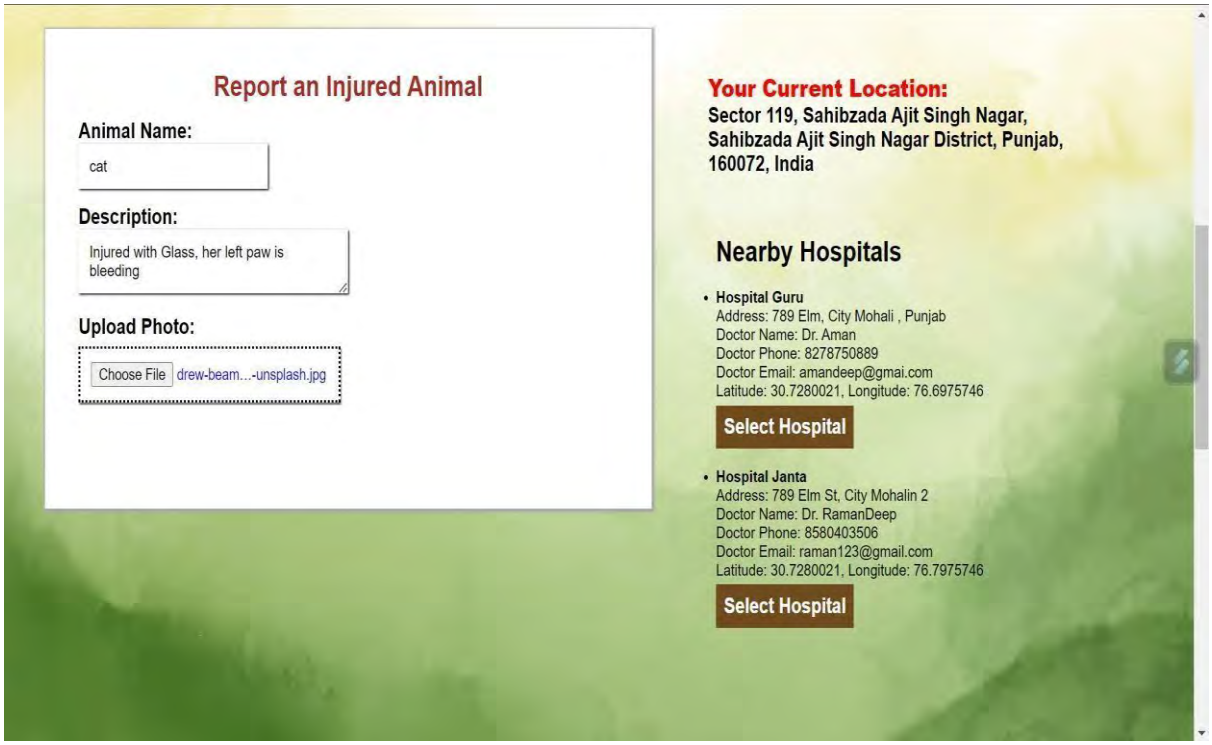



Fig:8.11

And when select nearby hospital. User get the options to contact the doctor.

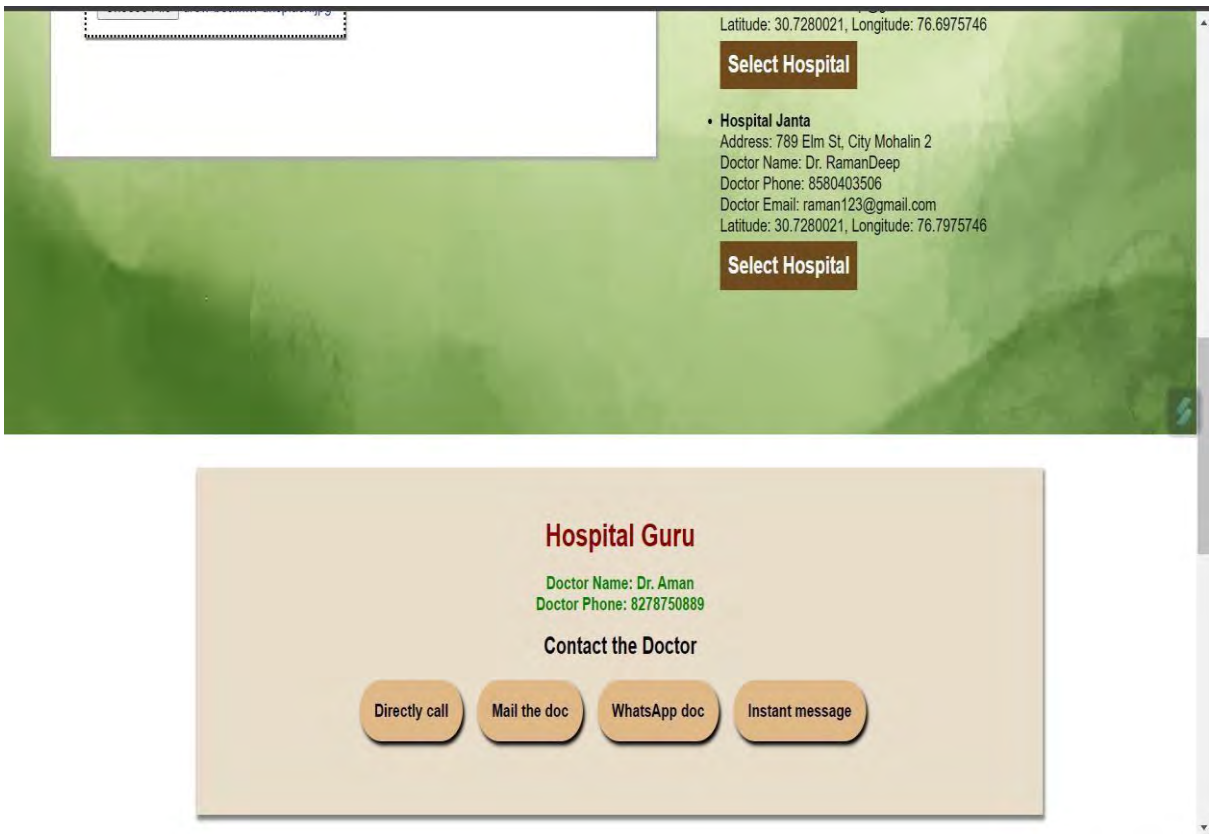



Fig:8.12

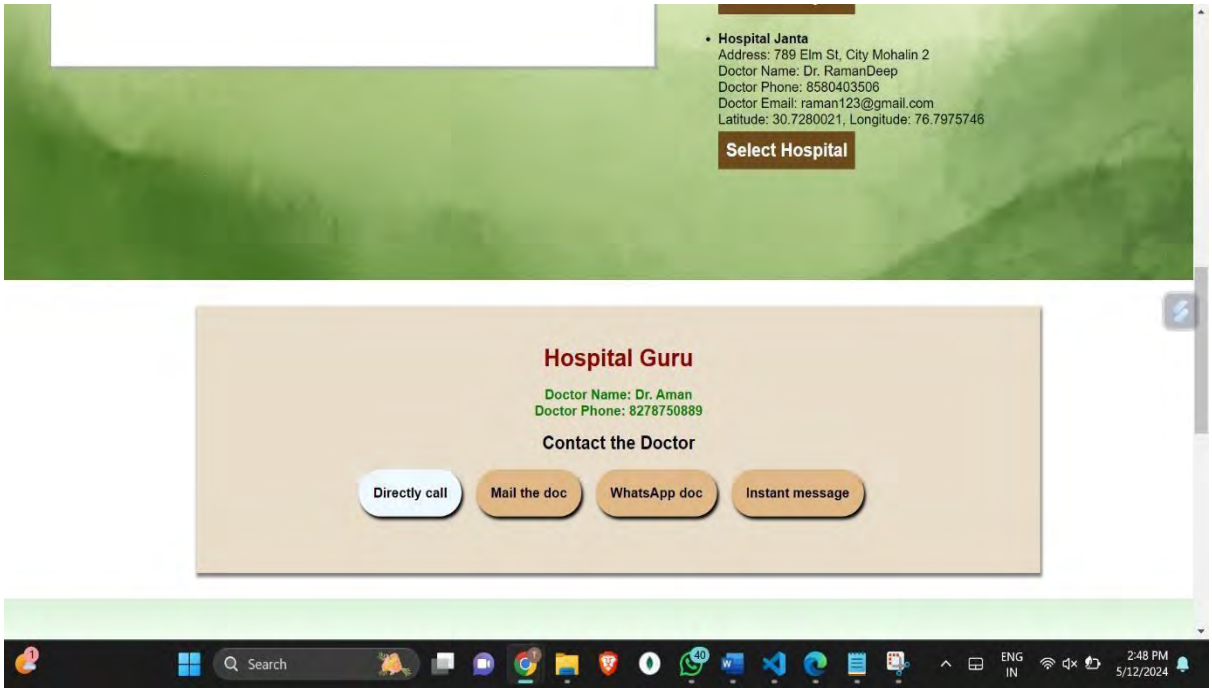



Fig:8.13

After clicking on “Directly call button” the window alters ask to open “Call Application”

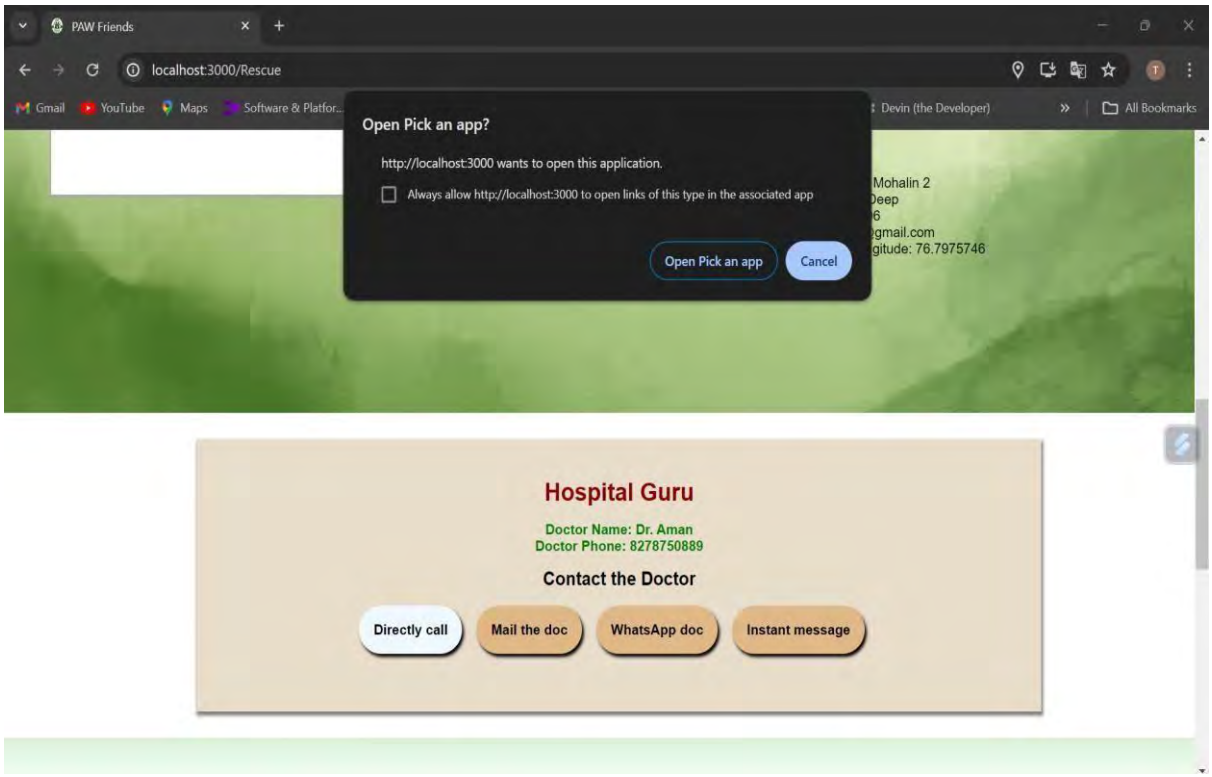



Fig:8.14

And after clicking on “Open Pick an App” the doctor number automatically enter in the Dialup and asking the user to “Call”.

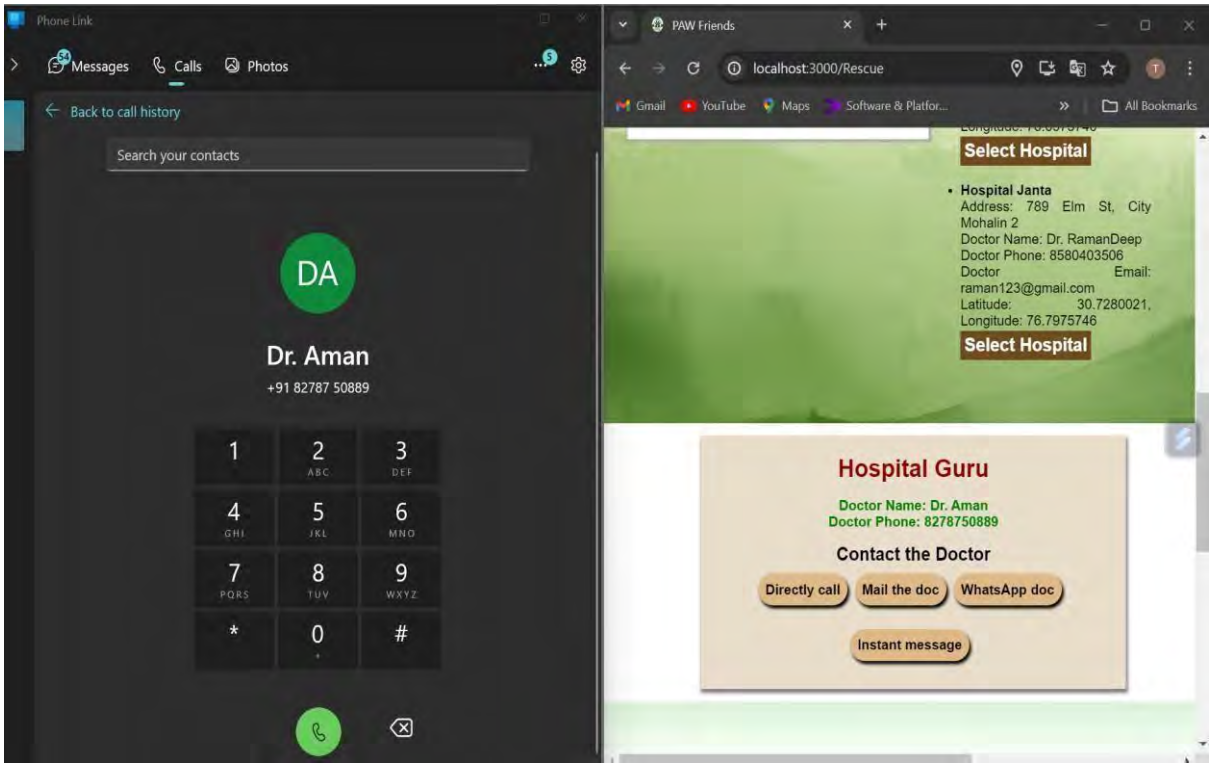



Fig:8.15

And after clicking on “Directly mail” button, mail application open and from the field it fields the subject and content in mail, and from the hospitals list, directly can send mail to the doctor form his fetched mail ID.

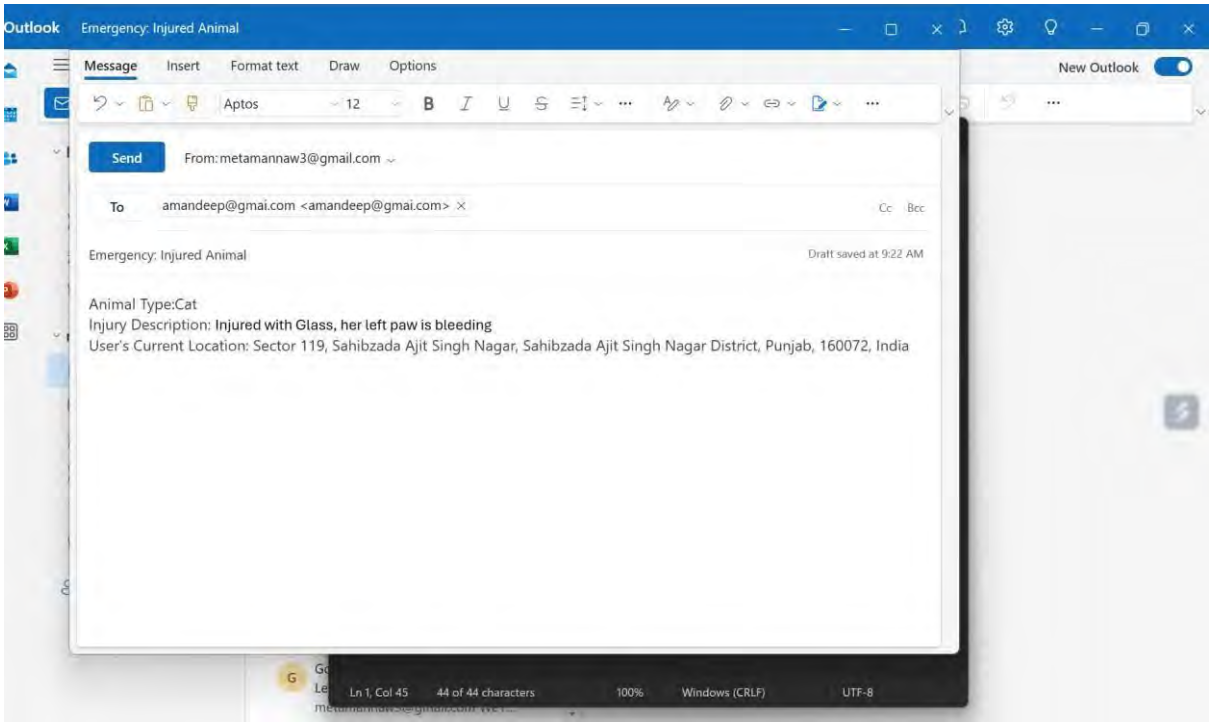



Fig:8.16

## 8.5 HELP PAGE




Fig:8.17

In help page, if user has any query, then can directly mail the doc. With his/her name, contact number, mail ID and the query message and directly will send to the animalresc@gmail.com.




Fig:8.18

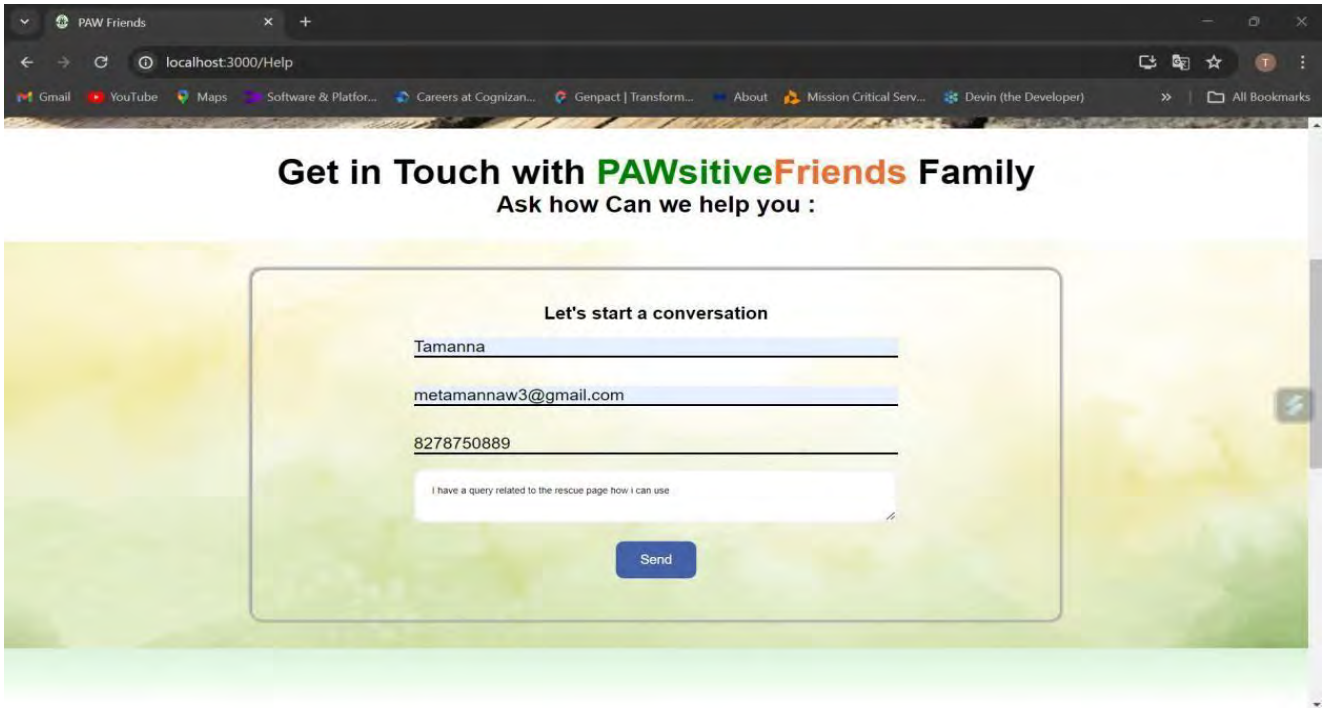



Fig:8.19

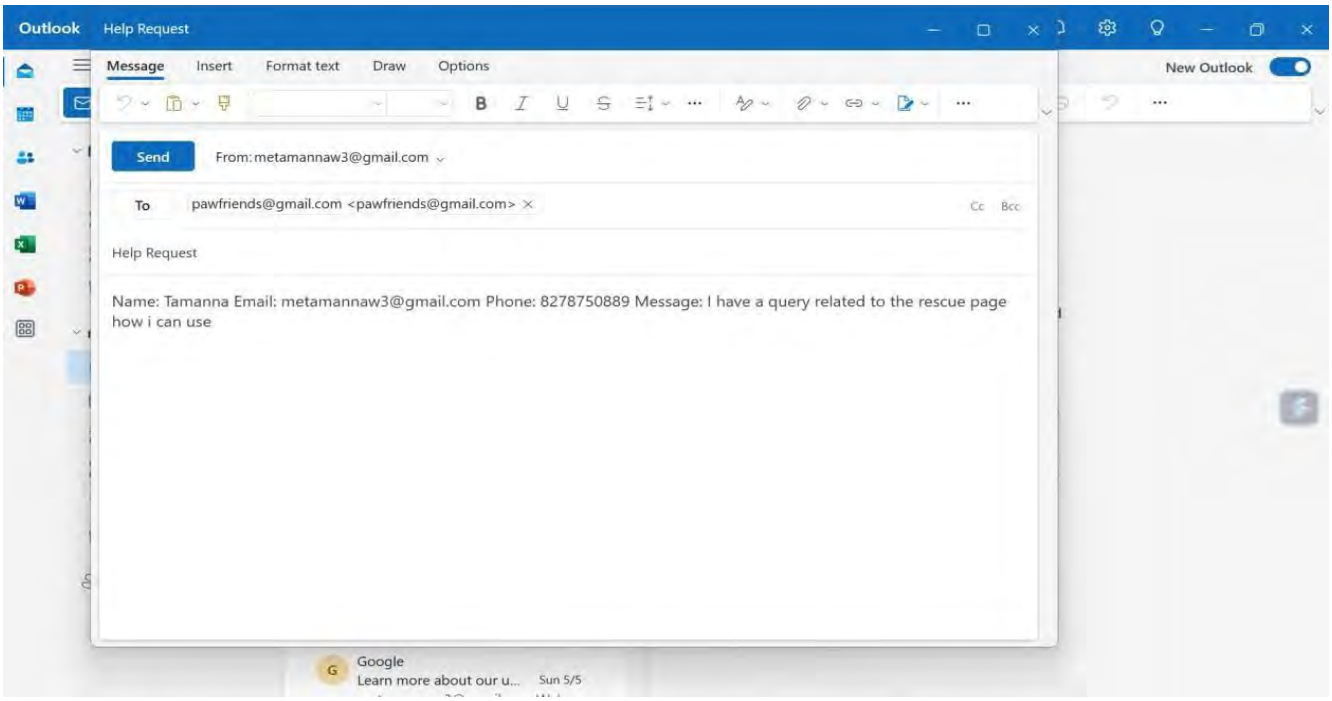



Fig:8.20

## 8.6 VOLUNTEER PAGE

In this page, all the rescued animals' details will show.




Fig:8.21




Fig:8.22

# CHAPTER-09

# CODING/MAIN MODULES OF THE PROJECT

## 9.1 ANIMAL RESCUE MODULE

```
// rescueController.js // Import required modules const
Rescue =
require ('../models/Rescue'); // Function to submit rescue
request exports.submitRequest
= async (req, res) => {  try {
    // Create new rescue object  const rescue = new Rescue(req.body);
// Save rescue request to database  await rescue.save();  res.status(201).json({ message:
"Rescue request submitted successfully"});
  } catch (error) {  console.error(error);  res.status(500).json({ message:
"Internal server error" });
  }
};
```

**Explanation:** This code snippet handles the submission of rescue requests by creating a new Rescue object with the provided details and saving it to the database using Mongoose.

## 9.2 Location Services Module

```
// Function to get current location exports.getCurrentLocation
= (req, res) => {
  // Implement logic to get current location using IoT devices or geolocation APIs
  // Placeholder code  const currentLocation = { latitude: 123.456, longitude:
789.012 };
res.status(200).json({ currentLocation }); };
```

**Explanation:** This code snippet represents the logic to retrieve the current location of the user using IoT devices or geolocation APIs. The current location is then returned as a response in JSON format.

## 9.3 Find Nearby Hospitals Module

```
const findNearbyHospitals = () => {  if (!userLocation) return;
```

```
const maxDistance = 10;     const hospitals = hospitalsData.filter(hospital => {
const distance =
calculateDistance(userLocation, hospital.location);       return distance
<= maxDistance;
   });
   setNearbyHospitals(hospitals);     if (hospitals.length === 0) {
setError("No hospitals found within 10 kilometers.");
   }
};
```

**Explanation:** This code will help to find the nearby hospitals.

## 9.4 Calculating the distance:

```
const calculateDistance =
(location1, location2) => {     const earthRadius = 6371;     const
lat1 = deg2rad(location1.lat);                const lat2 =
deg2rad(location2.lat);       const lng1 = deg2rad(location1.lng);
const lng2 =
deg2rad(location2.lng);

   const dLat = lat2 - lat1;
const dLng = lng2 - lng1;

   const a = Math.sin(dLat / 2) * Math.sin(dLat / 2) +
     Math.cos(lat1) * Math.cos(lat2) *      Math.sin(dLng / 2)
*   Math.sin(dLng   /   2);              const     c =     2    *
Math.atan2(Math.sqrt(a), Math.sqrt(1 - a));

   const distance = earthRadius * c;
   return distance;  };
```

```
  const deg2rad = (deg) => {
return deg * (Math.PI / 180);
};
```

**Explanation:** These lines of codes will help to calculate the distance.

## 9.5 Server-Side Connection:

```
const express = require('express'); const app = express();
const port = 8000; const connectDB =
require("./database/db"); const Animals =
require('./database/animals'); const cors = require('cors');

// Middleware for parsing JSON app.use(express.json());

// Enable CORS app.use(cors());

// Registration
app.post('/rescue', async (req, res) => {
try {
   const { animalName, description } = req.body; // Update keys to match client-side keys
console.log(req.body);
   const animal = new Animals({ animalname: animalName, desc: description }); // Update keys to
match database schema     await animal.save();     res.status(201).json({ message: "Animal Details
Posted Successfully" });
  } catch (error) {      res.status(500).json({ error: "Animal details not posted.
Failed!!!" });
  }
});
```

```
//fetch all the animals app.get('/animals', async (req,
res) => {   try {     const animals = await
Animals.find();     res.status(200).json(animals);
  } catch (error) {     res.status(500).json({ error: "Failed to fetch animals"
});
  } });

connectDB();


app.listen(port, () => {   console.log('Server is

Listening on Port 8000');

});
```

**Explanation:** These lines of code will connect the front-end with backend (i.e. server side connection).

## 9.6 Database Connection:

```
const mongoose=require('mongoose');

const connectDB =  async () => {     try{
      await mongoose.connect('mongodb://localhost:27017/myDB');

console.log("Connected to MongoDB");

   }

   catch(error){

console.log(error);

   }

}


module.exports = connectDB;
```

**Explanation:** These lines of code will connect the server with the “MongoDB”

# CHAPTER-10

# VALIDATION CHECKS

## 10.1 VALIDATION CHECKS FOR ANIMAL RESCUE REPORTS

The "Validation Checks" chapter outlines the mechanisms implemented in "The PAWsitive Friends" to ensure the accuracy and completeness of submitted animal rescue reports. This chapter details the specific validation checks performed on user-submitted data to maintain data integrity and facilitate efficient animal rescue efforts.

### 1. Required Fields

**Animal Type:** Users must select the type of animal (e.g., dog, cat, bird, etc.) from a predefined list or provide a free-text entry with appropriate validation (e.g., restricting special characters or excessive length).

**Current Location:** The application should employ geolocation to automatically capture the user's current location. If geolocation is unavailable or disabled, users should be able to manually enter their location details (e.g., address, zip code).

**Injured Description:** While optional, the system might encourage users to provide a brief description of the animal's injured state, aiding rescue efforts.

### 2. Data Type Validation

**Data type checks:** Ensure data entered in specific fields adheres to the expected format. For example, phone numbers should only contain numeric characters and appropriate separators (hyphens, spaces).

### 3. Data Range Validation

**Location Range (Optional):** If manual location entry is allowed, consider implementing a range validation to ensure the entered address or zip code falls within the operational area of the application.

(Optional) Injured Description Length: If implemented, limit the character length of the injured description field to prevent excessively long entries.

### 4. Data Consistency Checks

**Internal Consistency Checks:** Validate the consistency of user-provided data. For example, ensure the reported animal type aligns with any uploaded photos (if applicable).

## 5. User Input Sanitization

**Sanitize user input:** Implement mechanisms to prevent malicious code injection or manipulation of data submitted through the report form. This helps protect the system from security vulnerabilities.

## 6. User Feedback on Validation Errors

**Clear and actionable error messages:** Upon encountering validation errors, the system should provide clear and user-friendly error messages that inform users about the specific issue and guide them on how to correct it.

## 7. Importance of Validation Checks

Validation checks play a crucial role in "The PAWsitive Friends" for several reasons:

**Improved Data Quality:** Enforces accurate and complete reporting, ensuring animal welfare organizations receive reliable information to guide rescue efforts.

**Enhanced User Experience:** Clear error messages and user-friendly reporting forms provide a smooth user experience by helping users avoid common reporting mistakes.

**Efficient System Operations:** Validated data minimizes the risk of errors downstream, allowing the system to function efficiently and facilitate timely responses to animal rescue reports.

By implementing these validation checks, "The PAWsitive Friends" ensures the quality and accuracy of reported information, ultimately contributing to more effective animal rescue efforts.

# CHAPTER-11
# TESTING

## 11.1 TESTING STRATEGIES

This chapter outlines the comprehensive testing strategy implemented to ensure the quality, reliability, and user-friendliness of "The PAWsitive Friends" web application. Here, we'll delve into the different testing levels employed and the specific techniques used to identify and address potential issues before deployment.

### 11.1.1 Testing Level

**1. Unit Testing:**

The foundation of the testing strategy, unit testing focuses on verifying the functionality of individual software units (functions, modules) in isolation. This ensures each unit performs as expected and handles various input scenarios.

**Techniques:**

**White-Box Testing:** Examining the internal logic and structure of code to identify potential errors in implementation.

**Black-Box Testing:** Testing the unit's functionality from an external perspective, focusing on inputs, outputs, and expected behaviour without delving into the internal code.

**2. Integration Testing:**

Modules are integrated and tested to ensure they interact and function as expected together.

This verifies data flow and communication between different parts of the application.

**Techniques:**

**Top-Down Testing:** Testing modules from a high level down, ensuring higher-level modules call and interact with lower-level modules correctly.

**Bottom-Up Testing:** Testing modules from a low level up, verifying individual modules function properly before integration with higher-level components.

**3. System Testing:**

The entire application is tested as a whole to evaluate its overall functionality, performance, and user experience. This simulates real-world usage scenarios to identify potential issues before deployment.

**Techniques:**

**Functional Testing:** Verifying the application's core functionalities meet the defined requirements and user needs.

**Non-Functional Testing:** Evaluating non-functional aspects like performance, usability, security, and compatibility across different devices and browsers.

4. **User Acceptance Testing (UAT):** End-users (citizens, animal welfare organizations, and potentially volunteers) participate in testing to ensure the application meets their needs, is user-friendly, and addresses their workflows effectively.

**Techniques:**

**User Scenario Testing:** Testing the application based on predefined user scenarios that represent typical usage patterns.

**Usability Testing:** Observing users interact with the application to identify usability issues and areas for improvement.

## 11.1.2 Additional Testing Consideration

**Security Testing:** Rigorous security testing is crucial to identify and address potential vulnerabilities that could compromise user data or system integrity.

**Performance Testing:** The application's performance is evaluated under various load conditions (simulated user traffic) to ensure it can handle anticipated usage without performance degradation.

**API Testing (Optional):** If the application interacts with external APIs, specific testing is required to verify proper communication and data exchange.

## 11.1.3 Testing Tools & Automation

**Testing frameworks:** Utilizing frameworks like JUnit (Java), PHPUnit (PHP), or Jest (JavaScript) can streamline unit testing processes.

**Test automation tools:** Automating repetitive tests using tools like Selenium can save time and effort during the testing lifecycle.

**Continuous Integration/Continuous Delivery (CI/CD) Pipeline:** In an Agile development environment, integrating CI/CD practices can automate testing processes as code changes are committed, promoting early detection and resolution of issues.

### 11.1.4 Benefits for Comprehensive Testing

**Improved Software Quality**: Reduces bugs and defects, leading to a more robust and reliable application.

**Enhanced User Experience:** Identifies usability issues and ensures the application is userfriendly and meets user needs.

**Increased Confidence in Deployment:** Provides a higher level of confidence that the application is ready for deployment and real-world use.

**Reduced Risk of Issues in Production:** Proactive testing helps prevent critical issues from surfacing after deployment, minimizing disruptions and potential damage.

By implementing a comprehensive testing strategy with various levels, techniques, and tools, "The PAWsitive Friends" aims to deliver a high-quality web application that effectively addresses animal rescue needs and provides a positive user experience for all stakeholders.

# CHAPTER-12
# IMPLEMENTATION AND MAINTENANCE

## 12.1 IMPLEMENTATION

The implementation phase marks the transition from development to deployment, where the "PAWsitive Friends" platform is rolled out for public use. This phase involves several key steps to ensure a smooth and successful launch:

**Deployment Environment Setup:** The deployment environment is configured to host the application, including server infrastructure, database setup, and network configurations. Cloud platforms such as AWS, Azure, or Google Cloud are utilized to deploy and manage the application resources.

**Code Deployment:** The latest version of the application code is deployed to the production environment using continuous integration and deployment (CI/CD) pipelines. Automated deployment tools such as Jenkins, GitLab CI/CD, or GitHub Actions are employed to streamline the deployment process and minimize downtime.

**Database Migration:** Database schemas and data are migrated to the production database, ensuring consistency between development and production environments. Migration scripts are executed to apply any schema changes or data transformations required for the production deployment.

**Configuration and Security:** Application configurations are fine-tuned for the production environment, including security settings, performance optimizations, and error handling mechanisms. SSL certificates are installed to encrypt communication between clients and servers, ensuring data privacy and security.

**User Training and Onboarding:** Users, volunteers, and administrators are provided with training and onboarding sessions to familiarize them with the "PAWsitive Friends" platform. Training materials, user guides, and instructional videos are created to facilitate the onboarding process and promote adoption of the platform.

## 12.2 MAINTENANCE

Maintenance is an ongoing process that ensures the continued availability, performance, and security of the "PAWsitive Friends" platform. It involves proactive monitoring, regular updates, and addressing issues and feedback from users:

**Monitoring and Alerting:** Monitoring tools such as New Relic, Datadog, or Prometheus are deployed to monitor the health and performance of the application in real-time. Alerts are configured to notify administrators of any anomalies, errors, or performance degradation that may require attention.

**Patch Management:** Regular patches and updates are applied to the application, dependencies, and underlying infrastructure to address security vulnerabilities, bugs, and performance issues. Patch management processes are established to ensure timely and effective deployment of updates without disrupting service availability.

**Backup and Disaster Recovery:** Backup procedures are implemented to regularly backup critical data, configurations, and application code. Disaster recovery plans are developed to recover from unforeseen events such as server failures, data breaches, or natural disasters, minimizing downtime and data loss.

**User Support and Feedback:** A dedicated support team is available to assist users, volunteers, and administrators with any questions, issues, or feedback related to the "PAWsitive Friends" platform. Helpdesk systems, ticketing systems, and community forums are utilized to streamline communication and resolve issues promptly.

**Continuous Improvement:** Continuous improvement efforts are undertaken to enhance the functionality, usability, and performance of the "PAWsitive Friends" platform. User feedback, analytics data, and market trends are analysed to identify areas for improvement and prioritize feature enhancements and updates.

The implementation and maintenance phases play a crucial role in ensuring the successful deployment, operation, and evolution of the "PAWsitive Friends" platform. By following best practices for deployment, maintenance, and user support, we aim to deliver a reliable, secure, and user-friendly platform for animal rescue and welfare, making a positive impact on the lives of animals and communities.

# CHAPTER-13

# SYSTEM SECURITY AND MEASURES

## 13.1 SYSTEM SECURITY MEASURES

Security is paramount in ensuring the confidentiality, integrity, and availability of data within the "PAWsitive Friends" platform. As the platform deals with sensitive information related to animal rescue operations and user interactions, robust security measures are implemented to protect against potential threats and vulnerabilities.

### Authentication and Authorization

**User Authentication:** User authentication is enforced using secure authentication mechanisms such as password hashing and salting. Strong password policies are enforced to prevent unauthorized access to user accounts.

**Role-based Access Control (RBAC):** Role-based access control is implemented to restrict access to sensitive functionalities and data based on user roles. Different roles such as administrators, volunteers, and regular users are assigned specific permissions and privileges.

### Data Encryption

**Transport Layer Security (TLS):** TLS encryption is used to secure communication between clients and servers, preventing eavesdropping and data interception. SSL certificates are installed to encrypt data in transit and establish secure connections.

**Data Encryption at Rest:** Sensitive data stored in the database is encrypted using encryption algorithms such as AES (Advanced Encryption Standard) to protect against unauthorized access and data breaches.

### Secure Development Practices

**Code Reviews:** Code reviews are conducted to identify and mitigate security vulnerabilities such as injection attacks, cross-site scripting (XSS), and insecure deserialization. Peer reviews and automated code analysis tools are used to ensure code quality and security.

**Input Validation:** Input validation techniques are employed to sanitize and validate user inputs, preventing injection attacks and malicious input manipulation.

## Security Auditing and Monitoring

**Log Management:** Comprehensive logging mechanisms are implemented to record and monitor system activities, user interactions, and security events. Log files are regularly reviewed and analysed to detect suspicious activities and security incidents.

**Intrusion Detection and Prevention Systems (IDPS):** IDPS tools are deployed to monitor network traffic, detect suspicious patterns, and prevent unauthorized access or malicious activities in real-time.

## Incident Response and Disaster Recovery

**Incident Response Plan:** An incident response plan is developed to outline the steps and procedures for responding to security incidents, data breaches, and cyber-attacks. Incident response teams are trained and equipped to handle security incidents promptly and effectively.

**Backup and Recovery:** Regular backups of critical data and configurations are performed to facilitate data recovery in the event of system failures, data corruption, or ransomware attacks. Backup procedures are tested regularly to ensure data integrity and availability.

By implementing robust security measures and adopting a proactive approach to security, the "PAWsitive Friends" platform aims to safeguard sensitive information, protect user privacy, and maintain the integrity and availability of data. Continuous monitoring, security audits, and adherence to best practices ensure that the platform remains resilient against evolving threats and vulnerabilities, providing users with a secure and trustworthy environment for animal rescue and welfare efforts.

# CHAPTER-14

# PERT CHART/ GANTT CHART

Gantt chart for the “The PAWsitive Friends” steganography Python project involves breaking down the project into tasks, estimating their durations, and scheduling them over time.

| Task | Duration(weeks) | Start Date | End Date |
|---|---|---|---|
| Project Planning and Research | 1.5 | 05-Jan | 14-Jan |
| Requirement Gathering and Analysis | 1 | 15-Jan | 21-Jan |
| Designing User Interface | 1 | 22-Jan | 28-Jan |
| Learning DOM Manipulation Concept & React | 2 | 29-Jan | 11-Feb |
| Implementing Front End | 2 | 12-Jan | 25-Feb |
| Learning NodeJS, ExpressJS & | 2 | 26-Jan | 10-Mar |
| Implementing Backend concept | 2 | 11-Jan | 24-Mar |
| Learning & Connecting to Database | 2 | 25-Jan | 07-Apr |
| Integration & Testing | 2 | 08-Jan | 21-Apr |
| Documentation and User Manul | 1 | 22-Jan | 28-Apr |
| Final Review and Bug Fixing | 1 | 29-Jan | 05-May |

Table 14.1 Timeline of Entire Project in table

# CHAPTER-15

# FUTURE SCOPE

## 1.Expansion of Features

**Enhanced User Experience:** Continuously improve the user interface and experience by incorporating user feedback and usability testing. Introduce features such as personalized recommendations, social sharing, and gamification to enhance user engagement and retention.

**Advanced Rescue Management:** Implement advanced features for managing rescue operations, such as real-time tracking of rescue teams, automated dispatching based on location proximity, and integration with IoT devices for remote monitoring of rescued animals.

**Community Engagement:** Foster a sense of community and collaboration among users and volunteers by introducing features such as forums, chat rooms, and events. Encourage knowledge sharing, networking, and volunteer recruitment to expand the reach and impact of animal welfare efforts.

## 2. Integration with Emerging Technologies

**Artificial Intelligence (AI) and Machine Learning (ML):** Explore the integration of AI and ML algorithms for predictive analytics, behaviour analysis, and image recognition to enhance animal identification, health monitoring, and decision-making processes.

**Internet of Things (IoT):** Leverage IoT devices such as wearable sensors, GPS trackers, and environmental monitors to collect real-time data on animal health, behaviour, and habitat conditions. Integrate IoT data with the platform to provide comprehensive insights and actionable information for users and administrators.

**Blockchain Technology:** Investigate the use of blockchain technology for secure and transparent tracking of donations, transactions, and supply chain activities related to animal welfare. Implement smart contracts for automating donation management and ensuring accountability and transparency in fundraising efforts.

## 3. Geographic Expansion and Collaboration

**Global Outreach:** Expand the reach of "PAWsitive Friends" beyond its current geographical region to serve a broader audience of animal lovers, rescue organizations, and volunteers worldwide. Localize the platform to support multiple languages and cultural contexts, enabling global participation and collaboration.

**Partnerships and Alliances:** Forge strategic partnerships and alliances with animal welfare organizations, veterinary clinics, government agencies, and corporate sponsors to amplify the impact of the platform and promote joint initiatives for animal rescue, adoption, and advocacy.

## 4. Research and Innovation

**Research and Development:** Invest in ongoing research and development initiatives to explore innovative solutions for addressing emerging challenges in animal welfare and conservation. Collaborate with academic institutions, research organizations, and industry experts to leverage cutting-edge technologies and scientific advancements.

**Hackathons and Competitions:** Organize hackathons, innovation challenges, and competitions to crowdsource ideas, solutions, and talent for advancing the mission of "PAWsitive Friends." Encourage collaboration, creativity, and entrepreneurship to drive innovation in animal welfare and technology.

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# DEPARTMENT OF COMPUTER SCIENCE
# HPURC DHARAMSHALA
## Department of PGDCA
## Attendance Sheet

**Subject:** Project Work (DCS-207) **Session:** Morning **Date: 10/07/2024**

**Examination:** 2nd Semester for the session 2023-24

| Sr. No. | Exam. Roll. No. | Roll No. | Student Name | Signature |
|---|---|---|---|---|
| 1. | 140232950010 | 1251 | Kanishka | Kanishka |
| 2. | 140232950001 | 1252 | Akhilesh | Akhi |
| 3. | 140232950019 | 1253 | Satyan Choudhary | Satyan |
| 4. | 140232950022 | 1254 | Shalini | Shalini |
| 5. | 140232950005 | 1255 | Anjali | Anjali |
| 6. | 140232950008 | 1256 | Deepika Walia | Deepika Walia |
| 7. | 140232950020 | 1257 | Shagun | Shagun |
| 8. | 140232950023 | 1258 | Shanvi | Shanvi |
| 9. | 140232950007 | 1259 | Atul Chaudhary | Atul Chaudhary |
| 10. | 140232950009 | 1261 | Dikshu Sharma | Dikshu Sha |
| 11. | 140232950002 | 1262 | Akshita Sharma | Akshita |
| 12. | 140232950003 | 1263 | Aniket | Aniket |
| 13. | 140232950025 | 1265 | Anjali | Anjali |
| 14. | 140232950012 | 1268 | Meghna | Meghna |
| 15. | 140232950013 | 1269 | Pankaj Kumar | Pankaj |
| 16. | 140232950018 | 1270 | Rohit | Rohit |
| 17. | 140232950021 | 1271 | Shakshi | Shakshi |
| 18. | 140232950017 | 1272 | Ritika | Ritika |
| 19. | 140232950006 | 1273 | Ashish Kumar | Ashish |
| 20. | 140232950015 | 1274 | Rajeev Singh | Rajeev Singh |
| 21. | 140232950004 | 1276 | Anjali | Anjali |
| 22. | 140232950011 | 1277 | Manish Kumar | Manish |
| 23. | 140232950016 | 1278 | Rakesh Kumar | Rakesh |
| 24. | 140232950014 | 1279 | Rajat Kumar | Rajat |

**Internal Examiner**
(Ms. Shikha)

**External Examiner**
(Dr. Yogesh Mohan)

A PROJECT REPORT

ON

# "BLOOD DONATION CAMP"

SUBMITTED TO

HIMACHAL PRADESH UNIVERSITY - SHIMLA

IN PARTIAL FULFILMENT OF THE REQUIREMENTS OF

POST GRADUATE DIPLOMA IN COMPUTER APPLICATION (PGDCA)

**BATCH :2023-2024**

**DEPARTMENT OF COMPUTER SCIENCE**

**REGIONAL CENTER DHARAMSHALA**


**SUBMITTED TO:-**

**MR.DHEERAJ SONKHLA**

**SUBMITTED BY:-**

**AKSHITA SHARMA**
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**KANISHKA**
**(140232950010)**
**SHALINI**
**(140232950022**

# DECLARATION

This is to certify, that the Project Report titled **"BLOOD DONATION CAMP "** submitted by me is an outcome of my independent and original work. I have duly acknowledged all the sources from which the ideas and extracts have been taken. The project is free from any plagiarism and has not been submitted elsewhere to any other University / Institute for the fulfilment of the requirements of any course of study.

Dated:
PGDCA (2023-2024)

Signature of Student
AKSHITA
KANISHKA
SHALINI

# CERTIFICATE

**This is to certify that the project report entitled "blood donation camp** submitted to Department of Computer Science, Regional Centre Dharamshala - in partialfulfillment of the requirement for the award of the Post Graduate Diploma in Computer Application (PGDCA), carried out by **Akshita Sharma (14023295002) & kanishka (140232950010)& Shalini (140232950022)** under my guidance.

Dated:

Guide's Signature

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Signature
Akshita
Kanishka
Shalini

Place: Dharamshala
Date

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# CHAPTER 1
# INTRODUCTION

A blood donation camp website aims to facilitate the organization and management of blood donation events. It helps in creating awareness, registering donors, and providing essential information about the camp. Using HTML and CSS, you can create a user-friendly and visually appealing website.
Features:
The main features of the website, such as:

- Home page with information about the importance of blood donation.
- Registration form for donors.
- Schedule of upcoming blood donation camps.
- Contact information and FAQs.

## HTML

HTML stands for Hyper Text Markup Language. HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content.

- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

## History

The first version of HTML was written by Tim Berners-Lee in 1993. Since then, there have been many different versions of HTML. The most widely used version throughout the 2000's was HTML 4.01, which became an official standard in December 1999. Another version, XHTML, was a rewrite of HTML as an XML language.

### Features of HTML 2.0

Here are some notable additions to the second version of HTML language:
**Tables:** It introduced the

element, allowing web developers to create tabular data structures.

**Images:** HTML 2.0 introduced the

andelements to provide better support for images. These elements allowed web developers to associate captions with images, enhancing the overall visual experience.

**Alignment and Margins:** HTML second version introduced alignment and margin attributes for elements such as images and tables. These attributes allowed developers to control the positioning and spacing of elements within a web page.

## CSS

CSS stands for Cascading Style Sheet CSS describes how HTML elements are to be displayed on screen, paper, or in other media CSS saves a lot of work. It can control the layout of multiple web pages all at on External style sheets are stored in CSS files.

Following features are fundamental in creating a modern, responsive website:

- Flexbox: Flexbox is a layout model that allows you to design complex layouts with ease. It helps in aligning items within a container and distributing space efficiently

- Grid Layout: CSS Grid Layout is a powerful tool for creating two-dimensional layouts.

- Styling Multiple Pages: With CSS, you can apply styles to multiple web pages at once by linking them to a single CSS file. This ensures consistency across your site and saves time.

- Responsive Design: CSS enables you to create responsive designs that adapt to different screen sizes and devices. This is crucial for providing a good user experience on both desktop and mobile devices.

- Flexibility and Control: CSS gives you control over the layout, colors, fonts, spacing, and positioning of elements on your web pages. You can create complex layouts and designs with ease.

- Animations and Transitions: CSS supports animations and transitions, allowing you to add dynamic effects to your web pages without using JavaScript.

- Browser Compatibility: CSS is supported by all modern web browsers, ensuring that your styles will be applied consistently across different platforms.

- Efficiency: By using CSS, you can reduce the amount of code in your HTML files, making them cleaner and more efficient. This can also improve the loading speed of your web pages.

- Customizable: CSS allows you to create custom styles for different elements, giving you the flexibility to design your website exactly as you want it.

## History

CSS (Cascading Style Sheets) is a style sheet language used for specifying the presentation and styling of documents written in markup languages like HTML or XML.

- CSS enabled better content accessibility, flexibility, and control over presentation.
- It allowed multiple web pages to share formatting by using external files.
- CSS3, which began development after CSS2, took a modular approach.
- Instead of a single monolithic specification, it was published as separate documents or modules.
- These modules covered various aspects like animations, grid, and more.

# CHAPTER 2
# HARDWARE AND SOFTWARE REQUIREMENTS

## INTRODUCTION:

Hardware and software requirements are necessary for successfully running this system. The major element in building systems is selecting compatible hardware and software. The system analyst has to determine what software package is the best for the blood donation camp and software is not an issue, the kind of hardware and peripherals needed for the final conversion.

## HARDWARE AND SOFTWARE SPECIFICATION

### Software requirements:

- Microsoft window 8,10,11 with 64-bit version
- HTML
- CSS
- operating system

### Hardware requirements:

- RAM: 4GB
- Hard disk 80Gb or more
- Monitor LCD monitor
- Processor: AMD E2/ INTEL Pentium
- Keyboard
- Compatible mouse

# CHAPTER-3
# SYSTEM ANALYSIS

System analysis is the process of studying a system in order to identify its components, analyse their relationships and interactions, and understand the behaviour of the system as a whole. It is used in various fields, such as computer science, engineering, management, and social sciences, to design, develop, and improve systems.

System analysis is the process of studying a system in order to identify its components, analyse their relationships and interactions, and understand the behaviour of the system as a whole. It is used in various fields, such as computer science, engineering, management, and social sciences, to design, develop, and improve systems. System analysis can be performed using various techniques, such as data flow diagrams, use case diagrams, process maps, and decision trees. These techniques help to break down complex systems into smaller components and to visualize the relationships and interactions between them. System analysis can also involve interviewing stakeholders, observing system operations, and collecting data through surveys or other methods.

Overall, system analysis is an important tool for understanding complex systems and for improving their efficiency, effectiveness, and sustainability

# CHAPTER 4

# SYSTEM DESIGN

Designing a website for a blood donation camp involves several key components to ensure it is effective and user-friendly. Here's a structured approach to the system design:

1**. User Requirements Analysis**:

- Target Audience: Identify who will use the website (donors, volunteers, organizers).
- User Goals: Understand what users expect from the website (donation scheduling, information about the camp, registration).

2. **Functional Requirements:**

- Registration and Login: Allow donors, volunteers, and organizers to register and log in securely.
- Donor Management: Maintain a database of donors, including contact information and blood type.
- Appointment Scheduling: Enable donors to schedule appointments for donation.
- Information Pages: Provide details about the blood donation process, eligibility criteria, FAQs, and contact information.
- Notification System: Send reminders for appointments, updates about the camp, and thank-you messages.

3. **System Architecture**:

- Frontend: Develop a responsive, user-friendly interface using HTML, CSS, and JavaScript.
- Backend: Use a server-side language (e.g., Python, Node.js, PHP) with a framework (e.g., Django, Express, Laravel) for handling business logic and database interactions.
- Database: Choose a database system (e.g., MySQL, PostgreSQL) to store user data, appointments, and other relevant information.

4. **Key Features Implementation**:

- Registration Module: Allow users to register as donors, volunteers, or organizers with appropriate validations.

# CHAPTER 5

# PROJECT SNAPSHOTS

**HOMEPAGE:** A welcoming page with information about the blood donation camp, its purpose, and upcoming events.

It also shows the different webpages of our website in the menu.

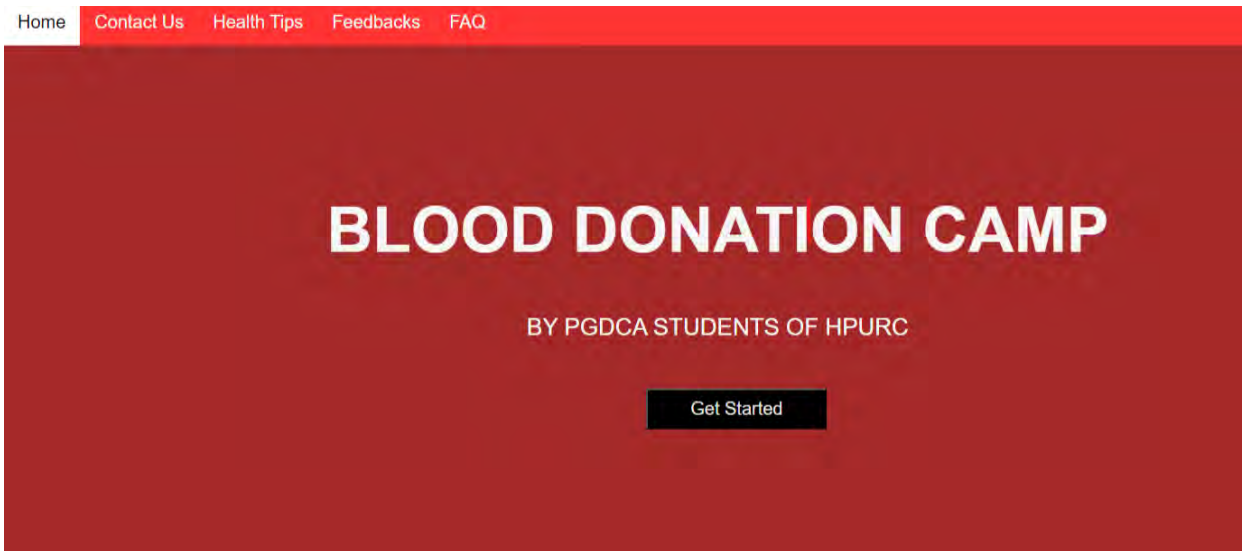



Fig. 5.1

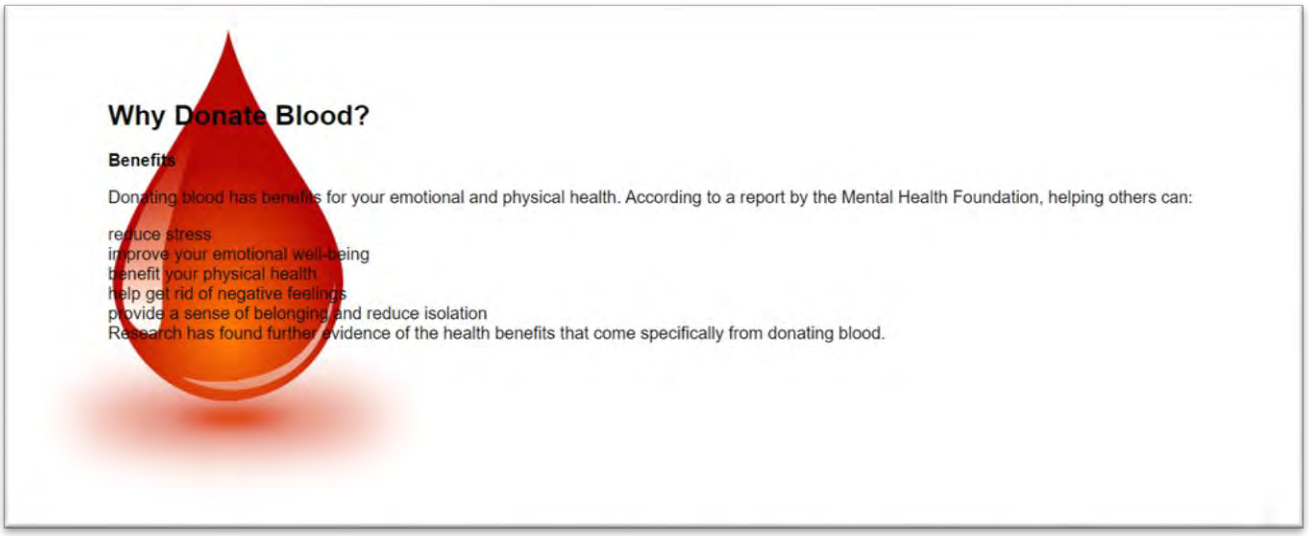



Fig. 5.2

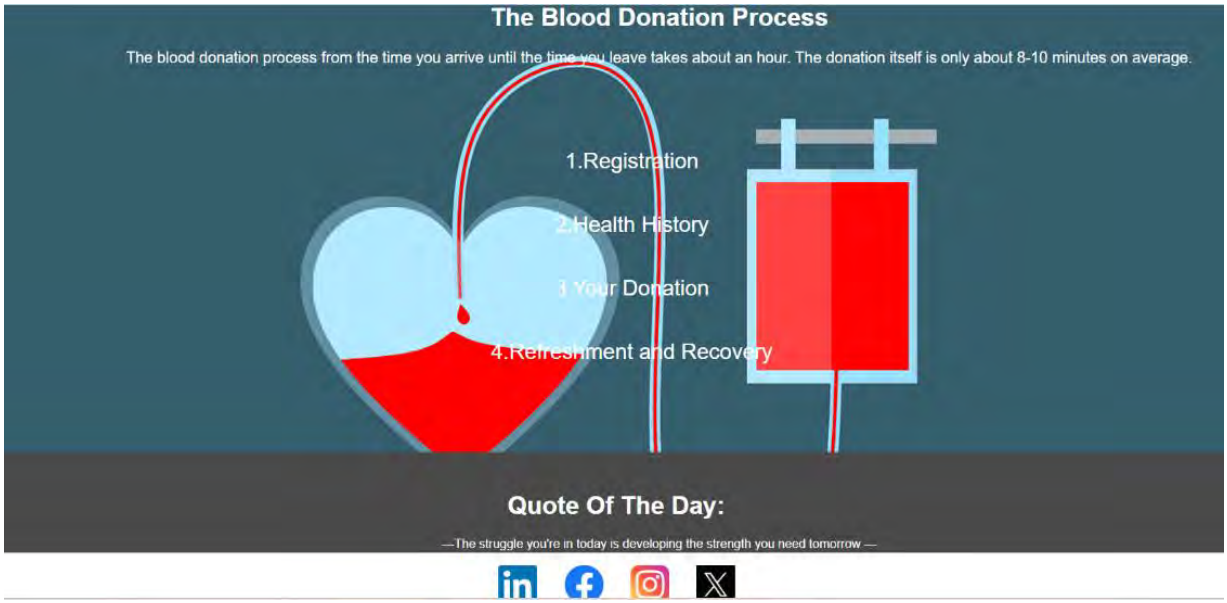



Fig. 5.3

CONTACT US: A page with contact details and a form for inquiries.

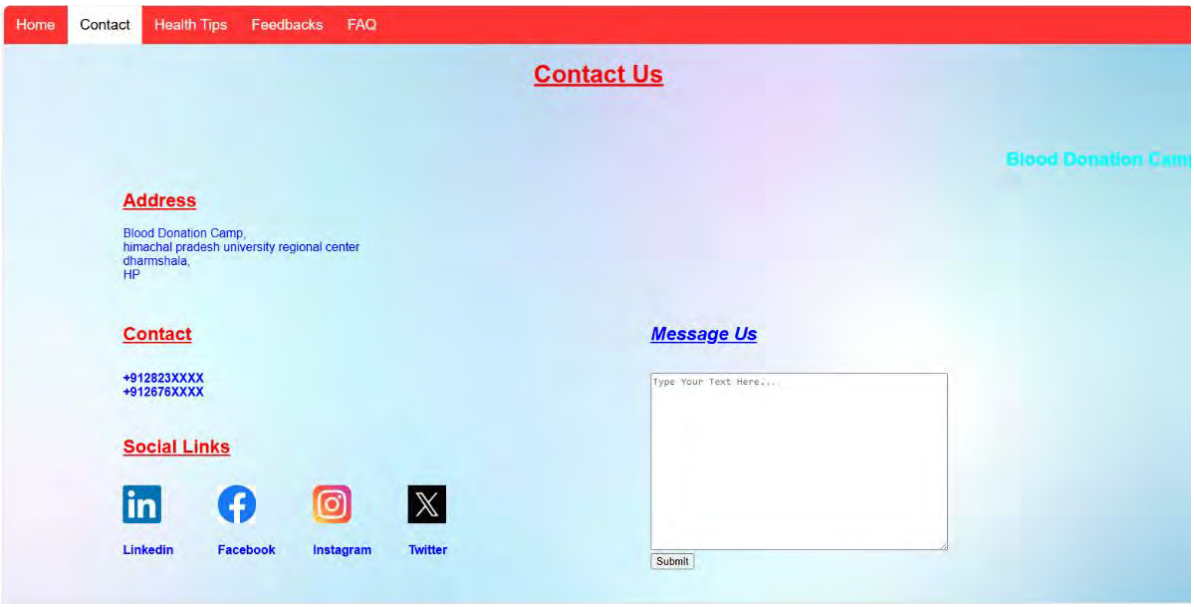



Fig. 5.4

**HEALTH TIPS**: Here are some health and nutrition tips about blood donation.




Fig. 5.5

FEEDBACK: A form for donors to register their details, including name, blood group, contact information, and availability.

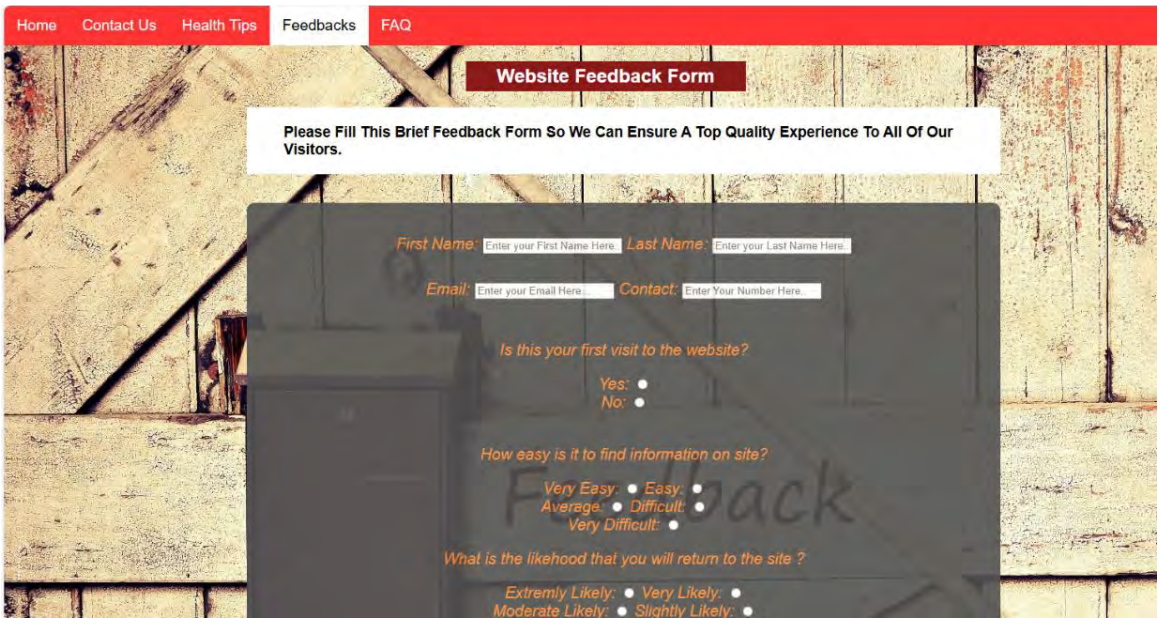



Fig. 5.6

FAQ: Here are some frequently asked question about blood donation.

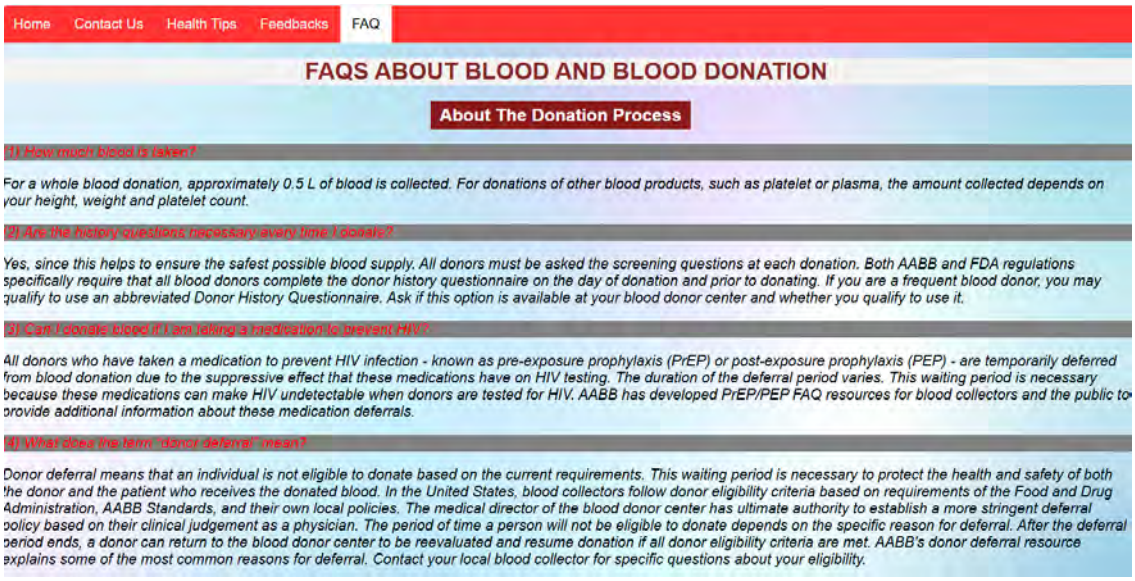



Fig. 5.7

# CHAPTER 6

# CODING

```
  color: #f2f2f2;
      text-decoration: none;
      font-size: 20px;
    } text-align: center;
      padding: 14px 16px;<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Home page</title>
</head>
  <style>
    body {
      margin: 0;
      font-family: sans-serif;
    }

    .topnav {
      overflow: hidden;
      background-color: rgb(255, 53, 53);
      position: fixed;
      position:sticky;
    }

    .topnav a {
      float: left;

    .topnav a:hover {
```

```
  background-color: white;
  color: black;
}

.topnav a.active {
  background-color: white;
  color: rgb(0, 0, 0);
}

.column1 {
  background-color: brown;
  height: 500px;
  padding-top: 60px;
}

.column2 {
  height: 500px;
  padding-top: 60px;
  background-image: url("blood-156063_1280.png");
  background-size:contain;
  background-repeat: no-repeat;
  margin-top: 20px;
}

.column3 {
  background-image: url("heart-5724137_1280.png");
  background-size:cover;
  background-repeat: no-repeat;
  margin-top: 20px;
  height: 600px;
  padding-top: 30px;
  text-align: center;
  color: white;
```

```
}

.column4 {
  background-color: rgb(74, 74, 74);
  height: 100px;
  padding-top: 30px;
}

.column6 {
  background-color: rgb(255, 255, 255);
  height: 80px;
  padding-top: 30px;
}


.column1 h1 {
  font-size: 70px;
  text-align: center;
  color: whitesmoke;
  padding-top: 52px;
  margin: 52px;
}


.column1 p {
  font-size: 26px;
  text-align: center;
  color: whitesmoke;
  margin: 52px;
}

.column4 h1 {
  color: white;
  text-align: center;
```

```
}

.column4 p {
  color: white;
  text-align: center;
}

.column2 h1,
p {
  margin-left: 7%;
}
.column2 p {
  font-size: 20px;
}

.btn {
  color: rgb(228, 228, 228);
  width: 200px;
  height: 45px;
  font-size: 20px;
  margin-left: 45%;
  background-color: black;
}

.btn:hover {
  background-color: rgb(207, 207, 207);
  color: black;
}
#login{
  float: left;
  margin-left: 80%;
}
.column3 ul{
  margin-left: 0%;
}
```

```
    #li{
      font-size: 28px;
    margin: 50px;
   text-decoration: none;
   list-style: none;
    }

  </style>
</head>

<body>

  <div class="topnav">
    <a class="active">Home</a>
    <a href="contact.html">Contact Us</a>
    <a href="healthtips.html">Health Tips</a>
    <a href="feedback.html">Feedbacks</a>
    <a href="FAQ.html">FAQ</a>
  </div>



  <div class="column1">
    <h1>BLOOD DONATION CAMP</h1>
    <p>BY PGDCA STUDENTS OF HPURC</p>
    <a href="getstarted.html"><input class="btn" type="button" value="Get Started"></a>
  </div>
  <div class="column2">
    <h1> Why Donate Blood?</h1>
    <p><B>Benefits</B></P>
<P>Donating blood has benefits for your emotional and physical health. According to a report by the Mental Health Foundation, helping others can:</P>

<P>reduce stress <BR>
improve your emotional well-being<BR>
benefit your physical health <BR>
```

```
help get rid of negative feelings <BR>
provide a sense of belonging and reduce isolation <BR>
Research has found further evidence of the health benefits that come specifically from donating blood.
</p>
  </div>
  <div class="column3">
    <h1>The Blood Donation Process</h1>
     <p>The blood donation process from the time you arrive until the time you leave takes about an hour. The donation itself is only about 8-10 minutes on average.</p>
    <br><br>
    <ul>
      <li  id="li">1.Registration </li>
      <li id="li">2.Health History </li>
      <li id="li">3.Your Donation</li>
      <li id="li">4.Refreshment and Recovery</li>
    </ul>
  </div>
  <div class="column4">
    <h1>Quote Of The Day:</h1>
    <p>---The struggle you're in today is developing the strength you need tomorrow ---</p>
  </div>
  <div style="padding-left:40%;">

    <div style="width: 9%; height: 100px; float:left;">
      <p><a href="https://www.linkedin.com">
          <img src="linked-in-2668696_1280.png" width="50" height="50">
      </a><h4>Linkedin</h4></p>
  </div>

  <div style="width: 9%; height: 100px; float:left; ">
      <p><a href="https://www.facebook.com">
          <img src="facebook-2815970_1920.jpg" width="50" height="50">
      </a><h4>Facebook</h4></p>
  </div>
```

```
  <div style="width: 9%; height: 100px; float:left;">
      <p><a href="https://www.Instagram.com">
          <img src="insta icon.png" width="50" height="50">
      </a><h4>Instagram</h4></p>
  </div>

  <div style="width: 8%;  height: 100px; float:left;">
      <p><a href="https://www.twitter.com">
          <img src="twitter2.jpeg" width="50" height="50">
      </a><h4>Twitter</h4></p><br>
  </div>
</div>
</body><br><br><br><br><br><br>

<p style="text-align:center;opacity: 50%;">All Rights Reserved By ©BloodDonationCamp2024</p>


</body>

</html>



<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Contact Us</title>


<style>
    body{
      font-family: sans-serif;

        background-image: url("system-3699542.jpg");
```

```
        background-repeat: no-repeat;
        background-size: cover;
        margin: 0%;
    }
    .topnav {
      overflow: hidden;
      background-color: rgb(255, 53, 53);

      position: sticky;
    }

.topnav a {
  float: left;
  color: #f2f2f2;
  text-align: center;
  padding: 14px 16px;
  text-decoration: none;
  font-size: 19px;
}

.topnav a:hover {
  background-color:white;
  color: black;
}
.topnav a.active {
      background-color: white;
      color: rgb(0, 0, 0);
    }
    </style>
<body>
    <div class="topnav">
        <a href="homepage.html">Home</a>
              <a class="active">Contact</a>
        <a href="healthtips.html">Health Tips</a>
        <a href="feedback.html">Feedbacks</a>
        <a >FAQ</a>
```

```
</div>
    <h1 style="text-align:center; color:RED"><u> Contact Us</u></h1>
    <br><br>
  <h2 style="color:aqua"><marquee>Blood Donation Camp</marquee></h2>
      <div style="padding-left:10%;">

          <div style="padding-left: 0px;
              padding-right: 20px;">
              <h2 style="color:RED;"><u>Address</u></h2>
              <p style="color:BLUE;">Blood Donation Camp,<br>
              himachal pradesh university regional center<br>
              dharmshala,<br>
              HP</p><br>

              <div style="width: 50%;  height: 10%; float:right;">
                <h2 style="color:BLUE;"><b><u><em>Message Us</em></u></b></h2><br>
              <textarea rows="15" cols="50" placeholder="Type Your Text Here..."></textarea><br>
              <button>Submit</button>
                </div>

            <div style="width: 50%;  height: 10%; float:right;">
            <h2 style="color:RED;"><u>Contact</u></h2>
            <div style="width: 9%; height: 100px; float:left;">
                <p style="color:BLUE;"><b>+912823XXXX<br>
                    +912676XXXX</b></p>


            </div><br><br><br>

          </div>
          <h2 style="color:RED;"><u>Social Links</u></h2>

          <div style="width: 9%; height: 100px; float:left;color:BLUE">
              <p><a href="https://www.linkedin.com">
                  <img src="linked-in-2668696_1280.png" width="50" height="50">
```

```
            </a><h4>Linkedin</h4></p>
        </div>

        <div style="width: 9%; height: 100px; float:left;color:BLUE">
            <p><a href="https://www.facebook.com">
                <img src="facebook-2815970_1920.jpg" width="50" height="50">
            </a><h4>Facebook</h4></p>
        </div>


        <div style="width: 9%; height: 100px; float:left;color:BLUE">
            <p><a href="https://www.Instagram.com">
                <img src="insta icon.png" width="50" height="50">
            </a><h4>Instagram</h4></p>
        </div>

        <div style="width: 8%;  height: 100px; float:left;color:BLUE">
            <p><a href="https://www.twitter.com">
                <img src="twitter2.jpeg" width="50" height="50">
            </a><h4>Twitter</h4></p><br>
        </div>
    </div>
</body>

</head>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>health tips</title>
</head>
<style>
     body{
      font-family: sans-serif;
        background-image: url("apple-4833764.jpg");
        background-repeat: no-repeat;
        background-size: cover;
        background-attachment: fixed;


        margin: 0%;
    }
    .topnav {
      overflow: hidden;
      background-color: rgb(255, 53, 53);
      position: fixed;


      position:sticky
    }

.topnav a {
  float: left;
  color: #f2f2f2;
  text-align: center;
  padding: 14px 16px;
  text-decoration: none;
  font-size: 20px;
}

.topnav a:hover {
  background-color:white;
  color: black;
}
h1{
    color: white;
```

```
}
.topnav a.active {
      background-color: white;
      color: rgb(0, 0, 0);
    }
    #p{
        color: white;
        background-color: #b7b7b7;
        font-size: 20px;
        font-style: oblique;



    }
    h2,h3{
        color:WHITE;
        font-size: 20px;
        font-style: oblique;
        text-decoration: underline;
        background-color: rgb(201, 104, 104);
        margin-right: 80%;

    }
    p{
        color: BLUE;
        font-size: 20px;
        font-style: oblique;

    }
    ul{
      color: white;
      font-size: 18px;
    }

</style>
<body>
```

```
<div class="topnav">
  <a href="homepage.html">Home</a>
      <a href="contact.html">Contact Us</a>
  <a class="active" href="#Health Tips">Health Tips</a>
  <a href="feedback.html">Feedbacks</a>
  <a href="FAQ.html">FAQ</a>
 </div>
 <h1>10 Health and Nutrition Tips That Are Actually Evidence-Based</h1>
 <p id="p">It's easy to get confused when it comes to health and nutrition. Even qualified experts often seem to hold opposing opinions, which can make it difficult to figure out what you should actually be doing to optimize your health.

  Yet, despite all the disagreements, a number of wellness tips are well supported by research.

  Here are 10 health and nutrition tips that are based on scientific evidence.
 </p>
  <h2>1. Limit sugary drinks</h2>
   <p>Sugary drinks like sodas, fruit juices, and sweetened teas are the primary source of added sugar in the American diet</p>
  <p>Unfortunately, findings from several studies point to sugar-sweetened beverages increasing risk of heart disease and type 2 diabetes, even in people who are not carrying excess body fat</p>
      <ul>
   <li>Water</li>
   <li>Unsweetened Teas</li>
   <li>Sparkling water</li>
   <li>Coffee</li>
  </ul>
  <h2>2. Eat nuts and seeds</h1>
   <p>Some people avoid nuts because they are high in fat. However, nuts and seeds are incredibly nutritious. They are packed with protein, fiber, and a variety of vitamins and minerals</p>
  <p>Nuts may help you lose weight and reduce the risk of developing type 2 diabetes and heart disease (</p>
   <p>Additionally, one large observational study noted that a low intake of nuts and seeds was potentially linked to an increased risk of death from heart disease, stroke, or type 2 diabetes</p>
  <h2>3. Avoid ultra-processed foods</h2>
```

Ultra-processed foods are foods containing ingredients that are significantly modified from their original form. They often contain additives like added sugar, highly refined oil, salt, preservatives, artificial sweeteners, colors, and flavors as well

<ul>
<li>Snack Cakes</li>
<li>Fast Food</li>
<li>Frozen Meals</li>
<li>Canned Foods</li>
<li>Chips</li>
</ul>

However, it's best to consume coffee and any caffeine-based items in moderation. Excessive caffeine intake may lead to health issues like insomnia and heart palpitations. To enjoy coffee in a safe and healthy way, keep your intake to less than 4 cups per day and avoid high-calorie, high-sugar additives like sweetened creamer.

<h2>5. Eat fatty fish</h2>

<h2>6. Get enough sleep</h2>

What's more, poor sleep is one of the strongest individual risk factors for weight gain and obesity.

<h2>7. Feed your gut bacteria</h2>

<h2>8. Stay hydrated</h2>

Hydration is an important and often overlooked marker of health.

This can help your body better produce melatonin naturally as evening progresses, helping you sleep better

</body><br><br><br><br><br><br>

</body>

</html>

```
.topnav a {
    float: left;
    color: #f2f2f2;
    text-<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Feedback</title>
</head>
<style>
    body {
        background-image: url("feedback-1213042.jpg");
        background-repeat: no-repeat;
        background-size: cover;
        margin: 0%;
        font-family: sans-serif;
        background-attachment: fixed;

    }

    .topnav {
        overflow: hidden;
        background-color: rgb(255, 53, 53);
        position: sticky;
    }align: center;
        padding: 14px 16px;
        text-decoration: none;
        font-size: 19px;
    }

    .topnav a:hover {
```

```
        background-color: white;
        color: black;
    }

    .topnav a.active {
        background-color: white;
        color: rgb(0, 0, 0);
    }

    }
    #head{
        font-size: 20px;
    }
</style>

<body>
    <div class="topnav">
        <a href="homepage.html">Home</a>
            <a href="contact.html">Contact Us</a>
        <a href="healthtips.html">Health Tips</a>
        <a class="active" href="#Feedbacks">Feedbacks</a>
        <a href="FAQ.html">FAQ</a>

    </div>

    <h2>Website Feedback Form</h2>
    <div class="headings">
     <h3>Please Fill This Brief Feedback Form So We Can Ensure A Top Quality Experience To All Of Our Visitors.</h3>
</div><br>
<br>
    <form action="test.php">
        <div class="register">
            <div class="a">
            First Name: <input type="text" placeholder="Enter your First Name Here...">
```

```
        Last Name: <input type="text" placeholder="Enter your Last Name Here...">
    <br>
    <br>
    <div class="a">
        Email: <input type="email" placeholder="Enter your Email Here...">
        Contact: <input type="number" placeholder="Enter Your Number Here..">
    </div>
    <br>
    <p id="head">Is this your first visit to the website?</p>

  <div>
   Moderate Likely: <input type="radio" name="option2">
   Slightly Likely: <input type="radio" name="option2">
   </div>
   <div>
      Unlikely to return: <input type="radio" name="option2">
   </div>
<div><br><br>
   <input type="button" value="Send">
</div>
</div>
</form>
</div>
</div>
</body><br><br><br><br><br><br>


</body>

</html>



<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
```

```
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>FAQ</title>
</head>
<style>
    body{
      font-family: sans-serif;

        background-image: url("question-mark-1872665.jpg");
        background-repeat: no-repeat;
        background-size: cover;
        margin: 0%;
        background-attachment: fixed;
    }
    .topnav {
      overflow: hidden;
      background-color: rgb(255, 53, 53);

      position: sticky;
    }

.topnav a {
  float: left;
  color: #f2f2f2;
  text-align: center;
  padding: 14px 16px;
  text-decoration: none;
  font-size: 19px;
}

.topnav a:hover {
  background-color:white;
  color: black;
}
.topnav a.active {
      background-color: white;
```

```
      color: rgb(0, 0, 0);
    }
    .q{background-color: rgb(129, 129, 129);
        color:RED;
        font-size: 20px;
        font-style: oblique;
    }
    .a{
        font-size: 20px;
        color:BLACK;
        font-style: oblique;
    }

    h1{
        color: rgb(134, 40, 40);
        text-align: center;
        background-color: #f2f2f2;
    }
    h2{
        color: white;
        background-color: rgb(137, 27, 27);
        padding: 5px;
        margin-right: 39%;
        text-align: center;
        margin-left: 38%;

    }
</style>
<body>
    <div class="topnav">
        <a href="homepage.html">Home</a>
                <a href="contact.html">Contact Us</a>
        <a href="healthtips.html">Health Tips</a>
        <a href="feedback.html">Feedbacks</a>
        <a class="active">FAQ</a>
```

```
</div>
<h1>FAQS ABOUT BLOOD AND BLOOD DONATION</h1>
<h2>About The Donation Process</h2>
<p class="q">(1)
How much blood is taken?</p>
<p class="a">For a whole blood donation, approximately 0.5 L of blood is collected. For donations of other blood products, such as platelet or plasma, the amount collected depends on your height, weight and platelet count.</p>

<p class="q">(2) Are the history questions necessary every time I donate?</p>
<p class="a">Yes, since this helps to ensure the safest possible blood supply.

<p class="q">(3) Can I donate blood if I am taking a medication to prevent HIV?</p>
<p class="a"> All donors who have taken a medication to prevent HIV infection - to provide additional information about these medication deferrals.</p>

<p class="q">(4) What does the term “donor deferral” mean?</p>

<p class="q">(5) If I was deferred once before, am I still ineligible to donate?</p>
<p class="a">Your blood donor center will inform you if you are permanently deferred or temporarily deferred. The deferral time depends upon the reason for deferral. Prior to each donation, you will be given a mini-physical and medical interview. At that time, it will be determined if you are eligible to donate blood on that day.</p>

<p class="q">(6) If I just received a flu shot, can I donate blood?</p>
<p class="a"> Yes. There is no waiting period to donate after receiving a flu shot.</p>

<p class="q">(7) If I have a cold or the flu, can I donate blood?</p>
<p class="a"> No, blood centers require that you be in good health (symptom-free) and feeling well.</p>

<p class="q">(8) Can I still donate if I have high blood pressure?</p>
<p class="a">Yes, if your blood pressure falls within the limits set by FDA regulations.</p>

<p class="q">(9) What if I'm taking aspirin or medication prescribed by my doctor?</p>
```

```
<p class="q">(10) How long will the actual donation process take?</p>


<p class="q">(12) What is apheresis?</p>
<p class="a">Apheresis, an increasingly common procedure, is the process of removing a specific component of the blood, such as platelets, red blood cells, plasma (liquid part of the blood) or granulocytes (white blood cells)

The apheresis donation procedure takes longer than that of a whole blood donation. A whole blood donation takes about 20 minutes to collect the blood as compared to an apheresis donation which may take about one to two hours, depending on the blood component(s) that is being donated.</p>

<p class="q">(13) What can you do if you aren't eligible to donate?</p>
<p class="a"> While a given individual may be unable to donate, he or she may be able to recruit a suitable donor. Blood banks are always in need of volunteers to assist at blood draws or to organize mobile blood drives.
</p>
</div>
</body><br><br><br><br><br><br>

</body>
</html>
```

# CHAPTER 7

# TESTING

1. Functionality Testing

    - Verify that all links and buttons work correctly.
    - Check forms (like registration forms) for proper input validation.
    - Ensure that the website performs as expected across different browsers and devices

2. Performance Testing:

    - Test the website's loading speed, especially important pages like registration or donation forms.
    - Check how the website handles traffic spikes, if applicable.
    - Ensure that images and multimedia content load properly without issues.

3. Security Testing:

    - Verify that sensitive information (like personal details in forms) is handled securely (using HTTPS, data encryption, etc.).
    - Check for vulnerabilities such as SQL injection or XSS (cross-site scripting) attacks.

4. Compatibility Testing:

    - Test the website across different devices (desktops, tablets, smartphones) and screen sizes.
    - Ensure compatibility with various operating systems (Windows, macOS, Linux) and browsers (Chrome, Firefox, Safari, Edge, etc.).

5. Content Review:

    - Double-check all content for accuracy, especially event dates, times, and locations.
    - Ensure that all content is grammatically correct and free of spelling errors.

# CHAPTER 8

# LIMITATIONS OF WEBSITE

One limitation of a project website for a blood donation camp could be the lack of accessibility for individuals with limited internet connectivity or digital literacy skills. This could potentially exclude some potential donors who rely on other means to gather information about such events. Another limitation could be the inability to effectively reach certain demographics who may not frequent websites or use digital platforms extensively. Additionally, if the website lacks updates or is not user-friendly, it may fail to engage visitors and convey essential information about the event, impacting its overall effectiveness. These factors underline the importance of considering diverse communication channels and ensuring inclusive outreach strategies when organizing such initiatives.

- **Eligibility Criteria**: Ensure that the website clearly communicates eligibility requirements for blood donors.
- **Health Screening**: While donating blood is generally safe, it's crucial to emphasize the importance of health screening.
- **Safety Precautions**: Blood donation centres must adhere to strict safety guidelines. Website should educate potential donors about the process, benefits, and potential side effects. Providing accurate information can alleviate concerns and encourage participation.
- **Donor Experience**: User experience matters. Make sure the website is user-friendly, with clear instructions on how to schedule appointments, find donation centres, and track donation history

# CHAPTER 9

# CONCLUSION

The blood donation website project aimed to create a user-friendly and informative platform to encourage and facilitate blood donation. By utilizing HTML and CSS, we developed a clean, responsive, and accessible website with essential web pages such as "Contact Us," "Health Tips," "Feedback," and "FAQs." Each page serves a unique purpose to ensure users have access to vital information and can easily navigate the site. The "Contact Us" page provides users with a way to reach out for inquiries or support, while the "Health Tips" section educates users on maintaining good health and the benefits of blood donation. The "Feedback" page allows users to share their experiences and suggestions, and the "FAQs" page addresses common questions and concerns.

This project successfully met its objectives of creating a straightforward and effective web presence for blood donation awareness. The website's design and functionality reflect the project's commitment to enhancing public knowledge and engagement in blood donation activities.

# CHAPTER 10

# FUTURE SCOPE

The blood donation website has a solid foundation, but there are several areas for future enhancement and expansion:

- Database Integration: Implementing a database to manage donor information, blood donation history, and scheduled donation drives can streamline the process and provide valuable insights.

- User Authentication and Profiles: Introducing user authentication will allow for personalized experiences, enabling users to create profiles, track their donation history, and receive reminders for future donations.

- Interactive Map: Adding an interactive map to show nearby blood donation centres and upcoming blood drives can help users find convenient locations to donate blood.

- Online Appointment Scheduling: Integrating an online appointment scheduling system will facilitate easier planning for donors and improve the efficiency of donation centres.

- Educational Resources: Expanding the "Health Tips" section to include detailed articles, videos, and infographics about blood donation, its benefits, and the science behind it can further educate and motivate potential donors.

- Mobile App Development: Developing a companion mobile app can provide users with on-the-go access to the website's features and push notifications for important updates and reminders.

- By implementing these enhancements, the blood donation website can evolve into a comprehensive and dynamic platform, further promoting blood donation and contributing to saving lives on a larger scale.

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**Dated: 06th April, 2024.**

**NOTICE**

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# EVALUATING THE IMPACT OF SMART CITY MISSION ON QUALITY OF LIFE: A CASE STUDY OF SHIMLA

## A PROJECT REPORT

**IN THE PARTIAL FULFILLMENT OF THE REQUIREMENT OF DEGREE**

## MASTER OF PUBLIC ADMINISTRATION

**(2022-2024)**




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# A CASE STUDY : SOLID WASTE MANAGEMENT IN BOILEAUGANJ WARD OF SHIMLA CITY

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# EXPLORING THE ROLE OF MGNREGA IN PROMOTING GENDER EQUALITY AND EMPOWERING WOMEN IN RURAL AREA: A CASE STUDY OF THARI PANCHAYAT, SHIMLA

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# AWARENESS AND ADOPTION OF e-SERVICES AT PANCHAYAT LEVEL: A STUDY OF BANTHAL PANCHAYAT IN DISTRICT MANDI H.P.

**IN THE PARTIAL FULFILLMENT OF THE REQUIREMENT**

**FOR THE AWARD OF DEGREE**

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# WASTE DISPOSAL PRACTICES AND ADMINISTRATIVE POLICIES IN MUNICIPAL CORPORATION SHIMLA

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# STUDY OF AWARENESS AND KNOWLEDGE REGARDING JANANI SURAKSHA YOJANA (JSY) AMONG ANC REGISTERED WOMEN IN KAMLA NEHRU STATE HOSPITAL FOR MOTHER AND CHILD SHIMLA

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# MENSTRUAL HYGIENE MANAGEMENT: A STUDY OF SHIMLA CITY

**A DISSERTATION**
**SUBMITTED TO HIMACHAL PRADESH UNIVERSITY, SHIMLA**
**FOR AWARD OF DEGREE OF**
**MASTERS**
**IN**
**PUBLIC ADMINISTRATION**
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# CYBER CRIME IN HIMACHAL PRADESH: A CASE STUDY OF SHIMLA

**A**

**PROJECT REPORT**

**SUBMITTED TO HIMACHAL PRADESH UNIVERSITY, SHIMLA FOR THE AWARD OF**

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| 5. | Mr. Manas Mishra | 5. |
| 6. | Ms. Preeti Dobriyal | 6. |
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This is to certify that the dissertation entitled "***Tailoring physicochemical parameters for maximum production of exopolysaccharide by Bacillus sp. PRS-05 and its applications***" has been carried out by ***Mr. Amit Kumar Pramanik*** in partial fulfilment of the requirements for the award of the Degree of **"Master of Science (M.Sc.) in Biotechnology"** under my guidance. The content of the dissertation being submitted contains original work done by him under my supervision in Department of Biotechnology, Himachal Pradesh University, Shimla. Further, to the best of my knowledge and belief, no part of this dissertation has been earlier submitted for any other degree to this and any other university/institute.

I wish him success in his future endeavours.

29/8/24

**Dated.** 29/08/2024
**Place.** Shimla

**Dr. Ravi Kant**
**Supervisor**

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Bio-Tech No. 1335
Dated: 12/09/24

## CERTIFICATE

This is to certify that the research work entitled "**Purification, immobilization and characterization of lactase from *Kluyveromyces lactis* LPY-08**" submitted by **Mr. AVINASH UPADHYAY** in the partial fulfillment for the degree of Master of Science (M.Sc.) in Biotechnology to the Department of Biotechnology, Himachal Pradesh University, Shimla, contains original work carried out by the candidate under my supervision in the Department of Biotechnology.

No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.

I wish him success in his future endeavors.

12/09/2024
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Dated: 29/08/2024

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I wish her success in her future endeavors.

Gupta
29-08-24

**(Prof. Reena Gupta)**

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Summer Hill, Shimla-171 005 (HP), India
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जैव प्रौद्योगिकी विभाग
हिमाचल प्रदेश विश्वविद्यालय

Dr. Savitri
Assistant Professor

Bio-Tech. No. : 556
Date: 12/8/24

# CERTIFICATE

This is to certify that Mr. Jatin Sharma has worked on dissertation work entitled "Production of exopolysaccharide from lactic acid bacteria MS-110 and its applications" under my supervision and guidance. The content of this dissertation, being submitted to the Department of Biotechnology, Himachal Pradesh University, Shimla for the award of Master of Science in Biotechnology contain original work done by him under my supervision in the Department of Biotechnology, Himachal Pradesh University, Shimla. Further, no part of this report has been earlier submitted for any other degree to this or any other University.

12/8/2024
(Savitri)

Multi Faculty Building (Phase-I), HP University Campus, Summer Hill, Shimla - 171005 (HP), India
**Phone/Fax:** 9418306308, E mail: savvy2000in@gmail.com, savitrihpu@hpuniv.ac.in

Dr. Arvind Kumar Bhatt
डा॰ अरविंद कुमार भट्ट
M.Sc., M.Phil., Ph.D., M.N.A.Sc.
Professor - Industrial Biotechnology
Incharge- Biotechnology Incubation Centre
Dean - Planning & TM, Dean Engg & Technology, HPU
Chairman, Department of Biotechnology, Microbiology & Forensic Science
Project Director-MoEF&CC-GoI,ICMR, DPIIT-GoI., HIMCOSTE, DEST-GoHP, JICA

Department of Biotechnology
HIMACHAL PRADESH UNIVERSITY
Summer Hill, Shimla-171 005 (HP), India
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Phone/Fax: (+91-177) 2831948, 2833705 (D), 2832660 (Res.), +94184-50009 (M)
E-Mail: arvind.bhatt@hpuniv.ac.in, bhtarvind@yahoo.com
www.hpuniv.ac.in

Biotech No-562.

Ref. No. AKB-HPU/M.Sc-2024

Dated: June, 2024

# CERTIFICATE

This is certified that the work presented in the dissertation **"*Evaluation of* antimicrobial potential and phytochemical analysis of *Taxus wallichiana* leaf extract"** by **Mr. Manas Mishra** submitted to the Department of Biotechnology, Himachal Pradesh University, Shimla-5 (H.P.) in partial fulfilment of the requirements for the award of the degree of **Master of Science** (M.Sc.) in **Biotechnology** contains original piece of work done by the candidate under my direct supervision and guidance in the department.

Further no part of this work has been earlier submitted for any other degree in this or in any other University/Institute.

29/6/24

**(Arvind Kumar Bhatt)**

**Date : June 2024**

**Place :** Shimla

Department of Biotechnology
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited 'A' Grade University)
Summer Hill, Shimla-171005 (H.P.), India

Dr. Wamik Azmi
Professor

जैव प्रौद्योगिकी विभाग
हिमाचल प्रदेश विश्वविद्यालय

Biotech no - 577

# CERTIFICATE

This is to certify that **Ms. Preeti Dobriyal** has worked on dissertation work entitled ***"Production, partial purification and characterization of inulinase from Rhizobium massiliae"*** under my supervision. The content of this dissertation, being submitted to the Department of Biotechnology, Himachal Pradesh University, Shimla for the award of Master of Science in Biotechnology contain original work done by her under my supervision in the Department of Biotechnology, Himachal Pradesh University, Shimla. Further, no part of this report has been earlier submitted for any other degree to this or any other University.

9/9/2024

**(Wamik Azmi)**

DEPARTMENT OF BIOTECHNOLOGY
DR WAMIK AZMI
Professor
Himachal Pradesh University, Shimla

Faculty Building (Phase-I), HP University Campus, Summer Hill, Shimla- 171005
(HP), India **Phone/Fax:** (+91-177): 2831948, **E-Mail:** wamikazmi@rediffmail.com

# HIMACHAL PRADESH UNIVERSITY
A State University Accredited with 'A' Grade by NAAC
DEPARTMENT OF BIOTECHNOLOGY
SUMMER HILL, SHIMLA, INDIA

**Professor Duni Chand**
(Ph. D. Appl. Microbiol) PDF (DAAD) Germany


Bio-Tech No. 1334
Dated: 12/9/24

## CERTIFICATE

This is to certify that the research work entitled **"Purification and immobilization of serratiopeptidase from *Serratia marcesens* SPB-07"** submitted by **Ms. PRITY CHATTERJEE** in the partial fulfillment for the degree of Master of Science (M.Sc.) in Biotechnology to the Department of Biotechnology, Himachal Pradesh University, Shimla, contains original work carried out by the candidate under my supervision in the Department of Biotechnology.

No part of this research work will be published/ presented in any part of the journal(s) or conference(s) without the written permission of the undersigned.

I wish her success in her future endeavors.

12/09/2024
(Duni Chand)


Multi Faculty Building (Phase-I), Gyan Path, HP University Campus, Summerhill, Shimla - 5 (HP), India
Phones: ++ 91-177-2831948, 2832704, Fax: ++ 91-177-2832154, E-mail: dunichand_2000@yahoo.com, www.hpuniversity.nic.in

Department of Biotechnology
HIMACHAL PRADESH UNIVERSITY
Summer Hill, Shimla-171 005 (HP), India
(NAAC Accredited "A" Grade University)

जैव प्रौद्योगिकी विभाग
हिमाचल प्रदेश विश्वविद्यालय

Phone/Fax:(+91-177) : 2831948, 2832153, 2833702, www.hpuniv.ac.in
Email : reenagupta_2001@yahoo.com

Prof. Reena Gupta

Biotech. No. 569.....

Dated: 29-08-2024.....

# CERTIFICATE

This is to certify that the research work entitled, **"Qualitative phytochemical analysis, antimicrobial, antioxidant and anti-inflammatory activities of *Zingiber officinale* (ginger)"** submitted by **Mr. Salim Sk** in partial fulfilment of the requirements for the award of the Degree of **Master of Science (M.Sc.)** in **Biotechnology, Department of Biotechnology, Himachal Pradesh University, Shimla,** is an original work carried out by the candidate under my guidance. Further, to the best of my knowledge and belief, this work has not been submitted earlier for consideration for the award of any degree or diploma of Himachal Pradesh University, Shimla or any other institution. It is further stated that the candidate will not submit or publish this work without prior permission from the undersigned.

I wish him success in his future endeavors.

Gupta
29-08-24

**(Prof. Reena Gupta)**

NAAC Accredited 'A' Grade University
DEPARTMENT OF BIOTECHNOLOGY
Himachal Pradesh University, Shimla-171 005
Phone/Fax: 0177-2831948; 2833703
Email: kanwarss2000@yahoo.com; callsskanwar@hpuniv.ac.in
ORCID ID: 0000-0002-3196-3366

**S. S. Kanwar, Ph.D.**
Professor
**Co-ordinator Biotechnology Program**
Fellow of United Writers Association of India
Former Dean Faculty of Life Sciences
Former Executive Council Member
Member Central Council - Association of Microbiologists of India
Community Member – American Chemical Society
Honorary Member Applied Microbiology International

Dated: August 25, 2024
Biotech No. ..5.66.....

# CERTIFICATE

This is to certify that the matter embodied in the M.Sc. thesis entitled, **"Effect of neem [*Azadirachta indica*] extracts on growth of MDR bacterial strains isolated from oral cavity"** is the result of investigations carried out by Mr. Shahzeb Khan under my direct supervision and guidance. The content of the thesis being submitted to the Faculty of Life Sciences, Himachal Pradesh University, Shimla for the award of degree of Master of Science in Biotechnology contains original work done by him at Department of Biotechnology, Himachal Pradesh University, Shimla. This work has not been submitted by him for the award of degree or diploma of any other institution to the best of my knowledge and belief.

**(S. S. Kanwar)**
Dr. S. S. Kanwar, Professor
Biotechnology, H. P. University,
Shimla-171 005 (India).
Email: kanwarss2000@yahoo.com
Telefax: +91-177-2831948; 2832154

DEPARTMENT OF BIOTECHNOLOGY
HIMACHAL PRADESH UNIVERSITY
Summer Hill, Shimla-171 005 (HP), India
(NAAC Accredited "A" Grade University)

जैव प्रौद्योगिकी विभाग
हिमाचल प्रदेश विश्वविद्यालय

Dr. Savitri
Assistant Professor

Bio-Tech. No. : 567
Date: 29/08/2024

# CERTIFICATE

This is to certify that Ms. Srishti Srivastava has worked on dissertation work entitled "Production and applications of exopolysaccharide from yeast isolate Y-98" under my supervision and guidance. The content of this dissertation, being submitted to the Department of Biotechnology, Himachal Pradesh University, Shimla for the award of Master of Science in Biotechnology contain original work done by her under my supervision in the Department of Biotechnology, Himachal Pradesh University, Shimla. Further, no part of this report has been earlier submitted for any other degree to this or any other University.

29/8/2024
(Savitri)

Multi Faculty Building (Phase-I), HP University Campus, Summer Hill, Shimla - 171005 (HP), India
Phone/Fax: 9418306308, E mail: savvy2000in@gmail.com, savitrihpu@hpuniv.ac.in

Dr. Neelam Kaushik
Assistant Professor

Department of Biotechnology
HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited "A" Grade University)
Summer hill, Shimla-171005

जैव प्रौद्योगिकी विभाग
हिमाचल प्रदेश विश्वविद्यालय

Bio-Tech. No. 572 Date: 29/08/2024

## CERTIFICATE

This is to certify that the research work entitled, **"Exploration of therapeutic applications of root bulb alkaloid extract of *Narcissus poeticus*"** has been carried out and submitted by **Mr. Victor Wilson Mattathi** in partial fulfilment of the requirements for the award of the Degree of **Master of Science (M.Sc.)** in **Biotechnology,** under my supervision in the **Department of Biotechnology, Himachal Pradesh University, Shimla.** This work contains original work carried out by the candidate under my guidance. Further, to the best of my knowledge and belief, no part of this dissertation has been submitted earlier for any degree or diploma of Himachal Pradesh University, Shimla or any other institution.

I wish him success in his future endeavours.

29/8/24
**(Dr. Neelam Kaushik)**

# POLYANDRY PRACTICES, CHANGES, AND CHALLENGES IN THE HATTI COMMUNITY: A SOCIOLOGICAL STUDY OF SIRMAUR DISTRICT IN HIMACHAL PRADESH

**A DISSERTATION**

**SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY, SHIMLA**

**IN PARTIAL FULFILMENT OF THE REQUIREMENTS**

**FOR THE DEGREE OF**

**MASTER OF ARTS**

**IN**

**SOCIOLOGY**

**2024**


**SUPERVISED BY:**

**Dr. ASHWANI KUMAR**

**SUBMITTED BY:**

**SAKSHI KANWAR**

**ROLL. NO. 25**

**DEPARTMENT OF SOCIOLOGY AND SOCIAL WORK**

**HIMACHAL PRADESH UNIVERSITY,**

**(NAAC ACCREDITED 'A' GRADE UNIVERSITY)**

**SUMMER HILL, SHIMLA-171005**

# DIYAUDI : A SOCIO-CULTURAL STUDY OF THE BUDHI DIWALI OF NIRMAND VILLAGE IN KULLU DISTRICT OF HIMACHAL PRADESH

**A DISSERTATION**

**SUBMITTED TO THE HIMACHAL PRADESH UNIVERSITY, SHIMLA**

**IN PARTIAL FULFILMENT OF THE REQUIREMENTS**

**FOR THE DEGREE OF**

**MASTER OF ARTS**

**IN**

**SOCIOLOGY**

**2024**


**SUPERVISED BY:**

**Dr. ASHWANI KUMAR**

**SUBMITTED BY:**

**SURAJ NEGI**

**ROLL. NO. 30**

**DEPARTMENT OF SOCIOLOGY AND SOCIAL WORK**

**HIMACHAL PRADESH UNIVERSITY,**

**(NAAC ACCREDITED 'A' GRADE UNIVERSITY)**

**SUMMER HILL, SHIMLA-171005**

Department of Physics
Himachal Pradesh University
*******

No. -HPU/PHY -2024--

Dated: 5.3.2024

# Notice

**Following are the group wise distribution of M.Sc. 4th Semester students for their Project work for session 2022-24**

| Group | Name of Students (Mr./Mrs. | Father Name (Sh.) | Class Roll | Exam . Roll No. | Name of Supervisor |
|---|---|---|---|---|---|
| 1. | ANKUSH NEGI | SUKHDEEP SINGH | 3314 | 78220010005 | |
| | KULDEEP KUMAR | SITA RAM | 3328 | 78220010014 | |
| | PRIYANKA SHARMA | MADAN LAL | 3338 | 78220010018 | Prof. Mahavir Singh |
| | JATIN THAKUR | RAJENDER KUMAR | 3348 | 78220010011 | |
| 2. | AYUSH | SURINDER KUMAR | 3302 | 78220010008 | |
| | SIMRAN SHARMA | GYANENDER SHARMA | 3315 | 78220010028 | |
| | VIVEK RAMAN MUNIHAL | RATTAN CHAND MUNIHAL | 3329 | 78220010038 | Prof. N.S. Negi |
| | ISHA THAKUR | SUBHASH CHAND | 3339 | 78220010010 | |
| | MAMTA SHARMA | OM PRAKASH SHARMA | 3349 | 78220010015 | |
| 3. | TULSI DEVI | KHUB RAM | 3304 | 78220010035 | |
| | KARTIKAY | PAWAN KUMAR | 3317 | 78220010013 | |
| | SAUMYA CHAUHAN | SANDEEP CHAUHAN | 3330 | 78220010024 | Prof. V.S. Rangra |
| | SHREYA THAKUR | ANIL KUMAR | 3340 | 78220010026 | |
| | AMAN BHALARIA | RAVINDER KUMAR | 3350 | 78220010002 | |
| 4. | SUBHASH CHAND | CHINT RAM | 3307 | 78220010030 | |
| | VARENDER KUMAR | KESAR SINGH | 3318 | 78220010036 | Prof. Nagesh Thakur |
| | TANUJA | DULLA RAM | 3331 | 78220010033 | |
| | ANCHAL | ASHWANI KUMAR | 3341 | 78220010003 | |
| 5. | ABHISHEK UDHAM | SHISHU PAL | 3308 | 78220010001 | |
| | SAKSHI | RAVINDER SINGH | 3319 | 78220010023 | |
| | SHVETA | SHIV KUMAR | 3332 | 78220010027 | Prof. Raman Sharma |
| | RACHIT CHAUHAN | CHAMAN LAL | 3342 | 78220010019 | |
| 6. | TAMANNA | RAJ KUMAR | 3313 | 78220010031 | |
| | NEERAJ THAKUR | AMBIKA PRASHAD | 3316 | 78220010017 | |
| | ANCHAL CHADWAL | RAMAN KUMAR | 3333 | 78220010004 | Dr. Amarjeet Singh |
| | SAHIL DHARWAL | RAJ KUMAR | 3343 | 78220010022 | |
| 7. | SIYA RANA | MAKHAN PAL | 3309 | 78220010029 | |
| | ANUP KUMAR | MAHENDER | 3322 | 78220010007 | |
| | TIJENDER THAKUR | PRATAP SINGH THAKUR | 3334 | 78220010034 | Dr. Balbir Singh Patial |
| | HEMANJALI SHARMA | DINA NATH SHARMA | 3344 | 78220010009 | |
| 8. | ANMOL SHARMA | DEV RAJ | 3311 | 78220010006 | |
| | ROHIT CHAUHAN | SHAMSHER SINGH | 3324 | 78220010021 | Dr. Dheeraj Sharma |
| | RITISH SHARMA | VINOD KUMAR SHARMA | 3335 | 78220010020 | |
| | MEGHA SHARMA | RAJESH KUMAR | 3346 | 78220010016 | |
| 9. | SHREYA SHARMA | RAJESH KUMAR | 3312 | 78220010025 | |
| | KAMAL KUMAR | SH. MOHAN | 3327 | 78220010012 | |
| | TANIYA | JAGDISH RAM | 3337 | 78220010032 | Dr. Raj Kumar |
| | VIPIN CHAUHAN | DAULAT RAM | 3347 | 78220010037 | |

Chairman, Dept. of Physics

Chairman
Deptt. of Physics
H. P. University
Shimla - 171005

| Internship certificates of batch 2022-2024 | | | |
|---|---|---|---|
| **Sr. No.** | **Name** | **Roll No.** | **Internship Organisation name** |
| 1. | Aakriti Sharma | 67220010001 | Deptt. of Information & Public Relations H.P. Shimla |
| 2. | Aashna Negi | 67220010002 | Himachal Darpan Live TV |
| 3. | Anchal Azad | 67220010003 | Punjab Kesari Shimla |
| 4. | Anjali Thakur | 67220010005 | Editorial Department Zee Phh. |
| 5. | Ankita | 67220010006 | Punjab Kesari, Shimla |
| 6. | Bhawna | 67220010007 | Doordarshan Shimla |
| 7. | Mehak Dhiman | 67220010009 | Amar Ujala Shimla |
| 8. | Muskan Gautam | 67220010010 | Editorial Department of Zee Phh. |
| 9. | Muskan Sharma | 67220010011 | Punjab Kesari Shimla |
| 10. | Parul Sharma | 67220010012 | Editorial Department of Zee Phh. |
| 11. | Pushap Lata | 67220010013 | Amar Ujala Shimla |
| 12. | Rajni | 67220010014 | Doordarshan Shimla |
| 13. | Sakshi Thakur | 67220010016 | Mantrin.com Chandigarh |
| 14. | Saya | 67220010017 | Punjab Kesari Shimla |
| 15. | Shivaksh Sharma | 67220010018 | The Future Society Churu, Jaipur |
| 16. | Shivani Khachi | 67220010019 | Deptt. of information & Public Relations H.P. Shimla |
| 17. | Sushant Gaurav | 67220010021 | Bharat-24 Noida |
| 18. | Vaishali | 67220010022 | Hindustan Times Chandigarh |
| 19. | Varun Sharma | 67220010023 | Amar Ujala Shimla |
| 20. | Vipasha | 67220010024 | Hindustan Times Chandigarh |

सूचना-सम्पर्क-सेवा
सूचना एवं जन सम्पर्क विभाग, हिमाचल प्रदेश

# Department of Information & Public Relations
# Himachal Pradesh, Shimla-2

No. I&PR-(Hq)-B(15)-2/2019 5999 Dated : Shimla-2 29th February, 2024

## CERTIFICATE OF INTERNSHIP

This is to certify that **Ms. Aakriti Sharma, IIIrd Semester, MA in Journalism & Mass Communication, Himachal Pradesh Univerisity, Shimla-5** has successfully completed her Internship in the Department of Information & Public Relations, Himachal Pradesh from 11th January, 2024 to 29th February, 2024. During her internship, she has gained experience in the field of Advertisement, Editing, Press Release and functions of the Department, besides carrying out publicity of various policies, programmes and activities of the Government through different Social Media platforms.

This Certificate is presented in appreciation to her work as an intern and recognition of outstanding accomplishments & contributions while working with the department.

**Ms. Aakriti Sharma** is obedient, hard working and sincere. I wish her all success in her future endeavours.

**Rajiv Kumar**, HAS
**Director**
**Information & Public Relations**
**Himachal Pradesh, Shimla-2**

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THE VOICE OF ROOTS
www.himachaldarpanlive.tv

Ref. No:- HDLT/KINNAUR 264-39

Date : - 03-03-2024

# To Whom It May Concern

This is to certify that Ms. Aashna Negi D/o Sh. Bijlu Ram Department of Journalism and Mass Communication, Himachal Pradesh University, Shimla has completed her 30 days internship at Himachal Darpan Live TV from 1st February 2024 to 1st March 2024. During her internship she learns the basic knowledge of reporting and field work. We found her extremely inquisite and hard working. We wish her all the best for future assignments.

HIMACHAL DARPAN LIVE TV CERTIFIED

HIMACHAL DARPAN LIVE TV APPROVED

राजकुमार सूद
संपादक

1st floor, Chandel Complex, Near Post Office, rajgarh himachaldarpanlivetv@gmail.com 94182-88725, 98821-75823, 98820-27897

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Phone: 0177-2658033 E-mail: shimlapk@gmail.com

Ref pk/sml/02/2024/04

Date 04/02/2024

## To Whom It May Concern

This is to certify that Ms. Anchal Azad D/o Sh. Susheel Kumar Azad, Department of Journalism and Mass Communication, Himachal Pradesh University, Shimla has completed her 30 days internship at Punjab Kesari Sub office, Shimla from 3rd January 2024 to 1st February 2024 . During her internship she learns the basic knowledge of reporting, production process and field work. We found her extremely inquisitive and hard working.
We wish her all the best for future assignments.

Anil Bhardwaj
State Bureau Chief
Himachal Pradesh
Punjab Kesari Group

पंजाब केसरी, शिमला
पंजाब केसरी
अलमंजिल, शिमला-171001

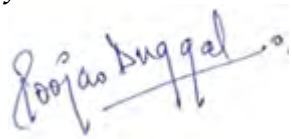
04 March 2024
Ref No: HR-2023-2024/1290

**To Whomsoever It May Concern**

This is to certify that **Anjali Thakur** has successfully completed her internship from **08 January 2024** to **28 February 2024**. During her internship, She has worked in the **Editorial Department** of **Zee Phh.**

Her overall performance was rated as Good.

*for* **Zee Media Corporation Limited**



**HR Department**

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Phone: 0177-2658033 E-mail- shimlapk@gmail.com

Ref : pk/sml/02/2024/03

Date: 04/02/2024

## To Whom It May Concern

This is to certify that Ms. Ankita D/o Sh. Sukhdev Singh, Department of Journalism and Mass Communication, Himachal Pradesh University, Shimla has completed her 30 days internship at Punjab Kesari Sub office, Shimla from 3rd January 2024 to 1st February 2024 . During her internship she learns the basic knowledge of reporting, production process and field work. We found her extremely inquisitive and hard working.
We wish her all the best for future assignments.

Anil Bhardwaj
State Bureau Chief
Himachal Pradesh
Punjab Kesari Group

पंजाब केसरी, शिमला ब्यूरो
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अलमंजिल, शिमला-171001, हिमाचल

प्रसार भारती/PRASAR BHARATI
भारत का लोक सेवा प्रसारक/INDIA'S PUBLIC SERVICE BROADCASTER
दूरदर्शन केन्द्र शिमला–4 (हि.प्र.)/DOORDARSHAN KENDRA SHIMLA
Tele: 0177-2652366, Email: rnushimla@gmail.com

Date 29-01-2024

## To Whom so Ever it May Concern

Certified that Ms.Bhawna D/o Sh.Dhani Ram, is working on editorial desk on monthly basis with Regional News Unit Doordarshan Kendra Shimla from November 2023 to till date.

She is a good worker and her performance is up to the mark. This certificate is being issued for her internship requirement of her course undertaken by her in HPU only. I wish success in her future endeavors.

(Nandini Mittal)
Dy. Director (News)
RNU Head, Shimla

**Corporate Office:**
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W www.amarujala.com

अमर उजाला
AMAR UJALA LIMITED
(Formerly known as Amar Ujala Publications Limited)

Dated: 02nd January 2024

The Chairman,
Department of Journalism & Mass Communication,
Himachal Pradesh University,
Shimla - 171005,

Dear Madam/Sir;

Ms. Mehak Dhiman, student of M.A (J.M.C) would be undergoing internship for a period of 4 weeks starting from (04th January 2024 to 31st January 2024) in Editorial Department at our Shimla Unit. Her facilitator during the internship period would be Shimla Editorial Head.

On completion of her internship, she would have to submit a copy of internship report to the organization.

For Amar Ujala Limited
(Formerly known as Amar Ujala Publications Limited)

AMAR UJALA LIMITED MEERUT

Renu Mattoo,
(Head HR)

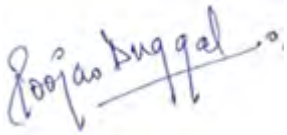
04 March 2024
Ref No: HR-2023-2024/1288

**To Whomsoever It May Concern**

This is to certify that **Muskan Gautam** has successfully completed her internship from **08 January 2024** to **28 February 2024**. During her internship, She has worked in the **Editorial Department** of **Zee Phh.**

Her overall performance was rated as Good.

*for* **Zee Media Corporation Limited**



**HR Department**

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Phone: 0177-2658033 E-mail- shimlapk@gmail.com

Date 04/02/2024

Ref pk/sml/02/2024/02

## To Whom It May Concern

This is to certify that Ms. Muskan Sharma D/o Sh. Naval Kishor, Department of Journalism and Mass Communication, Himachal Pradesh University, Shimla has completed her 30 days internship at Punjab Kesari Sub office, Shimla from 3rd January 2024 to 1st February 2024 . During her internship she learns the basic knowledge of reporting, production process and field work. We found her extremely inquisitive and hard working.
We wish her all the best for future assignments.

Anil Bhardwaj
State Bureau Chief
Himachal Pradesh
Punjab Kesari Group

पंजाब केसरी, शिमला
पंजाब केसरी
शिमला-171001

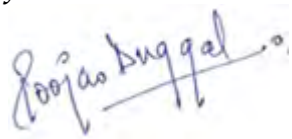
01 March 2024
Ref No: HR-2023-2024/1289

**To Whomsoever It May Concern**

This is to certify that **Parul Sharma** has successfully completed her internship from **08 January 2024** to **28 February 2024**. During her internship, She has worked in the **Editorial Department** of **Zee Phh.**

Her overall performance was rated as Good.

*for* **Zee Media Corporation Limited**



**HR Department**

**Corporate Office:**
164/1, Mohakampur, Delhi Road,
Meerut - 250002
T +91 121 2513801
E response@amarujala.com
W www.amarujala.com

अमर उजाला
AMAR UJALA LIMITED
(Formerly known as Amar Ujala Publications Limited)

Dated: 12th January 2024

The Chairman,
Department of Journalism & Mass Communication,
Himachal Pradesh University,
Shimla - 171005,

Dear Madam/Sir;

Ms. Pushap Lata, student of M.A (J.M.C) would be undergoing internship for a period of 4 weeks starting from (15th January 2024 to 11th February 2024) in Editorial Department at our Shimla Unit. Her facilitator during the internship period would be Shimla Editorial Head.

On completion of her internship, she would have to submit a copy of internship report to the organization.

For Amar Ujala Limited
(Formerly known as Amar Ujala Publications Limited)

Renu Mattoo,
(Head HR)

AMAR UJALA LIMITED

**Regd. Office :** 1101, 11th Floor, Antriksh Bhawan, 22, Kasturba Gandhi Marg,
Connaught Place, New Delhi - 110001
**Tel.** +91-41516166

# Internship Jan - Feb 2024

I, Rajni, a fourth-semester student in the Department of Journalism and Mass Communication, have been employed as a casual anchor at Doordarshan Himachal since December 2022. The attached screenshots of official emails display the list of shows I have hosted in January and February 2024.

PRASAR BHARATI
(India's Public Service Broadcaster)
Doordarshan

DD P-5
Artist ID:
BOOKING NO. - DDK S/PROGR/20424863

DDK SHIMLA
DDK SHIMLA

Dear Rajni ,
We invite you take part in the capacity of Actor/Performer/Producer in the Production to be telecast as detailed below upon the conditions printed overleaf We shall be obliged if you will kindly Sign and return the attached confirmation sheet, duly completed, within three days of the date of this letter :-
Title: BOOKED AS A COMPERE IN FIELD BASED PROG.RIDGE SHOW. TOPIC- MAKAR SANKRANTI AUR SADBHAVNA (14 JAN. 2024)
Date of Telecast : 14th Jan 2024,
Time of Telecast : 05:30:00 PM,
Date & Time of recording : 11th Jan 2024 02:00:00 PM
Duration : 00 hrs 00 mins
Place of Telecast :

The Stamp Duty will be borne by the Government.

Yours faithfully
Director/Authorised signatory
Doordarshan
For and on behalf of the Prasar Bharati through

PRASAR BHARATI
(India's Public Service Broadcaster)
Doordarshan

DD P-5
Artist ID:
BOOKING NO. - DDK S/PROGR/20507812

DDK SHIMLA
DDK SHIMLA

Dear Rajni ,
We invite you take part in the capacity of Actor/Performer/Producer in the Production to be telecast as detailed below upon the conditions printed overleaf We shall be obliged if you will kindly Sign and return the attached confirmation sheet, duly completed, within three days of the date of this letter :-
Title: BOOKED AS A COMPERE IN LIVE PROG. (JEEVAN SATHI)
Date of Telecast : 1st Mar 2024,
Time of Telecast : 02:00:00 PM,
Date & Time of recording :
Duration : 00 hrs 00 mins
Place of Telecast :

The Stamp Duty will be borne by the Government.

Yours faithfully
Director/Authorised signatory
Doordarshan
For and on behalf of the Prasar Bharati through

| | | | |
|---|---|---|---|
| Prasar Bharati IT T. | New Booking - Prasar Bharati Talent Booking System | - Dear Ms. Rajni , You have been offered new booking throu... | 1 Mar |
| Prasar Bharati IT T. | New Booking - Prasar Bharati Talent Booking System | - Dear Ms. Rajni , You have been offered new booking throu... | 20 Feb |
| Prasar Bharati IT T. | New Booking - Prasar Bharati Talent Booking System | - Dear Ms. Rajni , You have been offered new booking throu... | 16 Feb |
| Prasar Bharati IT T. | New Booking - Prasar Bharati Talent Booking System | - Dear Ms. Rajni , You have been offered new booking throu... | 15 Feb |
| Prasar Bharati IT T. | New Booking - Prasar Bharati Talent Booking System | - Dear Ms. Rajni , You have been offered new booking throu... | 29 Jan |
| Prasar Bharati IT T. | New Booking - Prasar Bharati Talent Booking System | - Dear Ms. Rajni , You have been offered new booking throu... | 26 Jan |
| Prasar Bharati IT T. | New Booking - Prasar Bharati Talent Booking System | - Dear Ms. Rajni , You have been offered new booking throu... | 16 Jan |
| Prasar Bharati IT T. | New Booking - Prasar Bharati Talent Booking System | - Dear Ms. Rajni , You have been offered new booking throu... | 15 Jan |
| Prasar Bharati IT T. | New Booking - Prasar Bharati Talent Booking System | - Dear Ms. Rajni , You have been offered new booking throu... | 11 Jan |

? ? ! !
Mantrin

Date: 29.02.2024

# To whomsoever it May Concern

This letter verifies that **Ms. Sakshi Thakur** interned with us as a copy writer, Client Servicing, and Basic of SEO from January 15th, 2024, to February 29th, 2024. She demonstrated the utmost sincerity, creative prowess and dedication throughout her tenure, proving to be a valuable asset to our company. We appreciate her contributions and wish her continued success in her future endeavours.

Thanks & Regards,

For Mantrin

Auth. Sign.

Mantrin

HR

ADDRESS
SCO: 188-90
4th Floor
Sector 34-A
Chandigarh

PHONE
+91 172 5039530 (10 Lines)
+91-172-5039529

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**STATE BUREAU OFFICE:** Al-Manzil Building, **U.S.Club Gate, Shimla-171001**
Phone: 0177-2658033 E-mail- shimlapk@gmail.com

Ref : pk/sml/02/2024/01

Date: 04/02/2024

## To Whom It May Concern

This is to certify that Ms. Saya D/o Sh. Ravinder Chauhan, Department of Journalism and Mass Communication, Himachal Pradesh University, Shimla has completed her 30 days internship at Punjab Kesari Sub office, Shimla from 3rd January 2024 to 1st February 2024. During her internship she learns the basic knowledge of reporting, production process and field work. We found her extremely inquisitive and hard working.
We wish her all the best for future assignments.

Anil Bhardwaj
State Bureau Chief
Himachal Pradesh
Punjab Kesari Group

पंजाब केसरी, शिमला ब्यूरो
पंजाब केसरी
शिमला-171001

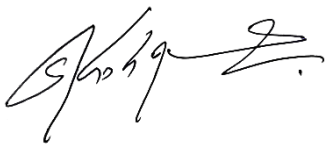
# *Internship Certificate*

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Shivaksh Sharma has successfully completed his Internship from January 1st to 20th February 2024 in Reporting & Content Writing. He has worked with team of digital baal mela for website content writing to educate and bring political awareness in young children.

His overall performance was rated as Very Good. We Wish Shivaksh all the very best.

For, The Future Society Churu



Sushil Sharma

President

सूचना-सम्पर्क-सेवा
सूचना एवं जन सम्पर्क विभाग, हिमाचल प्रदेश

# Department of Information & Public Relations
# Himachal Pradesh, Shimla-2

No. I&PR-(Hq)-B(15)-2/2019-5998 Dated : Shimla-2 29th February, 2024

## CERTIFICATE OF INTERNSHIP

This is to certify that **Ms. Shivani Khachi, IIIrd Semester, MA in Journalism & Mass Communication, Himachal Pradesh Univerisity, Shimla-5** has successfully completed her Internship in the Department of Information & Public Relations, Himachal Pradesh from 12th January, 2024 to 29th February, 2024. During her internship, she has gained experience in the field of Advertisement, Editing, Press Release and functions of the Department, besides carrying out publicity of various policies, programmes and activities of the Government through different Social Media platforms.

This Certificate is presented in appreciation to her work as an intern and recognition of outstanding accomplishments & contributions while working with the department.

**Ms. Shivani Khachi** is obedient, hard working and sincere. I wish her all success in her future endeavours.

**Rajiv Kumar**, HAS
**Director**
**Information & Public Relations**
**Himachal Pradesh, Shimla-2**

Date: - 07th March 2024

To whom so ever it may concern

This is to certify that **Mr. Sushant Gaurav Negi** has successfully completed his internship from 17-January 2024 to 20 February 2024.

During his internship, he has worked in **Production** Department of **Bharat 24**.

His overall performance was rated as good.

For Jaipur Media And Broadcasting Pvt. Ltd.



Authorized Signatory

Jaipur Media & Broadcasting Private Limited
Corporate Office : Discovery Tower A-17, Sector - 62, Noida - 201 309 (UP)
Tel: 0120-6914200/01
Website : www.bharat24live.com

**HT Media Limited**
C-164-165, Phase - VIII B,
Industrial Focal Point, Mohali (Punjab)
**Tel :** 0172-5050600
**Fax :** 0172-5050606
corporatedept@hindustantimes.com
www.hindustantimes.com
CIN No. L22121DL2002PLC117874

Feb 15, 2024

To whom it may concern

This is to certify that Ms. Vaishali has done four-week internship (January 15 – Feburary 15, 2024) at Hindustan Times, Mohali, as part of her journalism course in the school of Communication Studies, HP University, Shimla.

We wish her all the best in her future endeavors.

Ramesh Vinayak
Executive Editor
Hindustan Times, SAS Nagar

**Corporate Office:**
164/1, Mohakampur, Delhi Road,
Meerut - 250002
T +91 121 2513801
E response@amarujala.com
W www.amarujala.com

अमर उजाला
AMAR UJALA LIMITED
(Formerly known as Amar Ujala Publications Limited)

Dated: 26th December 2023

The Chairman,
Department of Journalism & Mass Communication,
Himachal Pradesh University,
Shimla - 171005,

Dear Madam/Sir;

Mr. Varun Sharma, student of M.A (J.M.C) would be undergoing internship for a period of 6 weeks starting from (01st January 2024 to 11th February 2024) in Editorial Department at our Shimla Unit. His facilitator during the internship period would be Shimla Editorial Head.

On completion of his internship, he would have to submit a copy of internship report to the organization.

For Amar Ujala Limited
(Formerly known as Amar Ujala Publications Limited)

AMAR UJALA LIMITED

Renu Mattoo,
(Head HR)

**HT Media Limited**
C-164-165, Phase - VIII B,
Industrial Focal Point, Mohali (Punjab
**Tel :** 0172-5050600
**Fax :** 0172-5050606
corporatedept@hindustantimes.com
www.hindustantimes.com
CIN No. L22121DL2002PLC117874

Feb 15, 2024

To whom it may concern

This is to certify that Ms. Vipasha has done four-week internship (January 15 – Feburary 15, 2024) at Hindustan Times, Mohali, as part of her journalism course in the school of Communication Studies, HP University, Shimla.

We wish her all the best in her future endeavors.

Ramesh Vinayak
Executive Editor
Hindustan Times, SAS Nagar

ADITYA BIRLA

UltraTech

March 19th, 2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Sourabh Kalia,** a bonafide student of Himachal Pradesh University Business School, has completed his Internship Project on **"Market Research"** from 3rd January 2024 to 17th Feb 2024 in Una under the guidance of **Mr. Amit Sharma.**

His conduct was found satisfactory, and we wish him all the best for future endeavors.

**Yours Sincerely,**
**For ULTRATECH CEMENT LIMITED,**
**CEMENT MARKETING DIVISION**

**NAVNEET CHAUHAN**
**REGIONAL-HR**
**PUNJAB, J&K and HP**
**CMD, BPD & RMC DIVISION**

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T: +91 22 6691 7800 / 6691 7801 | CIN: L26940MH2000PLC128420

एसजेवीएन लिमिटेड
**SJVN Limited**
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

**SJVN/CHQ/HR/HRD/115/1669** **07.03.2024**

# To Whom So Ever It May Concern

*This is to certify that Ms. Stuti, student of MBA (Finance), Himachal Pradesh University Business School, Himachal Pradesh University, Shimla (HP) has undergone Industrial Training in SJVN Limited w.e.f. 08.01.2024 to 07.03.2024. During the training period, she was deputed in Finance Department, Corporate Headquarters, SJVN, Shimla, wherein she has carried out a project work on "Financial Analysis". She has successfully completed the same and submitted a report to this effect, which was evaluated and found to be Excellent.*

*During this period she was found sincere and industrious.*

*We wish her bright future and success in life.*

7/3/24

***Dr. Vandana Bagharia Sehgal)***
***Sr. Manager (HR)***
***Corporate Training & HRD***

एसजेवीएन लिमिटेड
**SJVN Limited**
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

SJVN/CHQ/HR/HRD/115/1704

14.03.2024

# To Whom So Ever It May Concern

*This is to certify that Ms.Vanshika Mehta, student of MBA (HR), HPUBS Shimla has undergone Industrial Training in SJVN Limited w.e.f. 08.01.2024 to 14.03.2024. During the training period, She was deputed in HR Department, Corporate Headquarters, SJVN Shimla. She has successfully completed the internship wherein she has carried out a project work on "Functional Areas of HR In SJVN". She has successfully completed the same which was evaluated and found to be Excellent.*

*During this period she was found sincere and industrious.*

*We wish her bright future and success in life.*

14/3/24

***(Dr.Vandana Bagharia Sehgal)***
***Sr. Manager (Corporate Training & HRD)***



Scanned with ACE Scanner

Date: 04-04-2024

# Certificate of Internship

This is to certify that **Varun Katna** has completed his internship in **Airmeet** starting from **22-Jan-2024** to **31-Mar-2024**.

He has worked as an Intern with the Growth team on projects in which he demonstrated exceptional skills with a self-motivated attitude to learn new things. His performance exceeded expectations, and was able to complete the project successfully on time.

We wish him all the best in his future endeavors!

Yours sincerely,

For **Airmeet Networks Pvt Ltd**




**Deepa Ramakrishnan**

Associate Director - Human Resources

---

Ananta Vyom Consultants

**TO WHOM IT MAY CONCERN**

This is to certify that Mr.Vasu Garg has successfully completed his internship from January 01st 2024 to January 31st 2024 with our Organization in the capacity of Intern TA – HR. During the internship , he has been involved in Recruitment of the candidates , following the entire recruitment cycle, maintaining of database , submission of the reports and other Talent Acquisition activities.

All the work assigned to him has been upto the satisfactory level and he has shown tremendous growth during the internship with us.

He has been always dedicated to the work and adhered to the deadlines.

During the tenure with us , we found him hardworking , sincere and keen learner.

Here's wishing him all the best for future endeavours .

For **Ananta Vyom Consultants**



Himpriya Sharma

Dated : 15-02-2024

Happy Home, New Totu, Shimla-171011 ( HP) ; Email: anantavyomconsultants@gmail.com
Mob: 9418028207, 8626858207,9459623897

March 19th, 2024

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr. Vipen Thakur,** a bonafide student of Himachal Pradesh University Business School, has completed his Internship Project on **"Recruitment and Selection"** from 15th January 2024 to 8th March 2024 in Regional Office Chandigarh under the guidance of **Mr. Navneet Chauhan.**

His conduct was found satisfactory, and we wish him all the best for future endeavors.

**Yours Sincerely,**
**For ULTRATECH CEMENT LIMITED,**
**CEMENT MARKETING DIVISION**

**NAVNEET CHAUHAN**
**REGIONAL-HR**
**PUNJAB, J&K and HP**
**CMD, BPD & RMC DIVISION**

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T: +91 22 6691 7800 / 6691 7801 | CIN: L26940MH2000PLC128420

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**SJVN Limited**
(A Joint Venture of Govt. of India & Govt. of H.P.)
A Mini Ratna & Schedule 'A' PSU
CIN: L4014HP1988GOI0020409
रामपुर हाइड्रो पावर स्टेशन
Rampur Hydro Power Station

**Ref. SJVN/RHPS/HR/Estt013/** 3148 **Dated: 01.03.2024**

## To Whomsoever It May Concern

This is to certify that Sh. Yashwant, S/o Sh. Kanwar Singh, MBA (HR & Finance), student of HPU, Shimla (HP), has successfully completed Industrial/Project Training in Rampur Hydro Power Station, 412 MW, Bayal, Distt. Kullu (H.P) w.e.f 1st January 2024 to 29th February 2024.

He was found to be sincere and hardworking during the training period.

Manju Saini

**(Manju Saini)**
**Manager (HR)**

Manager (HR)
Human Resource Deptt.
Rampur HPS, Bayal

एसजेवीएन
SJVN

# Certificate of
# TRAINING COMPLETION

SR No. : 277

This is to certify that Mr./Ms. YOGESHWAR THAKUR

S/o D/o Sh. KAMAL SINGH, student of MBA (HR) from HIMACHAL PRADESH UNIVERSITY, SHIMLA has undergone industrial training in SJVN Limited at "Nathpa Jhakri Hydro Power Station - 1500 MW" – Jhakri w.e.f. 01/01/24 to 14/02/24.

Mr./Ms. YOGESHWAR THAKUR has completed his/her training successfully. We wish all success and bright future in his/her career.

No. : 6104

Date : 14/02/2024

Place : JHAKRI

14/02/24

Authorized Signatory

प्रबन्धक

मानव संसाधन विभाग

Seal

FUJIKAWA POWER

**Ref: OFPPL/HR/Jan-24** **Date 06.01.2024**

To,

Mr. Shivanshu Sharma ,

Village Garh Khas, Post Malakher. Tehsil Palampur,

District Kangra., Himachal Pradesh – 176093

Subject :– **Offer of Student Internship 2024.**

Dear Mr. Shivanshu Sharma,

We are pleased to offer you the position of intern at our plant Okaya Fujikawa Power Pvt. Ltd. Bagbaniya, Nalagarh Distt Solan (H.P.) for the duration of 3 months starting from 08.01.2024 to 06.04.2024. We believe that your skills and enthusiasm will be a valuable addition to our team.

We shall be obliged if you could kindly confirm your acceptance of the above by returning this letter duly signed by you.

Yours Sincerely

For Okaya Fujikawa Power Pvt. Ltd.

6/1/24

Handa Kundi, Nalagarh, Solan H.P. ★ VIII. Okaya Fujikawa Power Private Limited

(Deputy Manager HR)

ACKNOWLEDGEMENT CLAUSE:

I accept the terms set out above.

Signature

Date 06/01/2024

**OKAYA FUJIKAWA POWER PVT. LTD.**
**REGD. OFFICE** : H-19, Udyog Nagar, Rohtak Road, New Delhi - 110 041, India.
vp.fbcl@okayapowerltd.com +91 11 47451500
CIN: U31109DL2022PTC397158 Fujikawa Power : Village Handa Kundli, Nalagarh Road, Baddi

**Ameriprise India LLP**
(LLPIN: AAO-9932)
[Converted into LLP from
Ameriprise India Private Limited
(U72200DL2005PTC139739)]

Ameriprise Financial

12th March 2024

**Prachi Sharma**
Type5/3 Shri Lal bahadur Shastri National Sanskrit University, Qutab Institutional Area Katwaria Sarai New Delhi 110016.

This is to certify that **Prachi Sharma** has successfully completed the Internship Program in Finance and has successfully completed her project at Ameriprise India LLP from **January 25, 2024 – March 25, 2024.**

We wish her all the very best for her future endeavors.

With Best Regards,
**For Ameriprise India LLP**



(Authorized Signatory)

Harish Kukreja

Vice President- Regional Head of HR, India

**PAISSO TECHNOLOGY PVT. LTD.**
C 127, 1st Floor, Phase 8 Industrial Area, Mohali (160071)

DialaBank
India's First Financial Helpline

**Mar 30, 2024**

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Pranav Gupta has completed his internship with **Paisso Technology Pvt. Ltd.** at the position of **Banking: Relationship Manager (Intern)** from **Jan 04, 2024** to **Mar 30, 2024.**

During this tenure of internship, Pranav remained involved in his work and he is a professionally sound, hard-working and devoted. He has the motivation to take initiatives and we feel delighted that he had been helpful in the advancement of our organization.

Moreover, he has a genial temperament and can efficiently work in a team for the realization of organizational goals and objectives.

We wish him all the best for future endeavor.

**With Best Wishes**

Jasleen Mangat

**Jasleen Kaur Mangat – HR Head**

एसजेवीएन लिमिटेड
SJVN Limited
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

SJVN/CHQ/HR/HRD/115/1668 07.03.2024

# To Whom So Ever It May Concern

*This is to certify that Ms. Priyanjali Dharma, student of MBA (Finance), Himachal Pradesh University Business School, Himachal Pradesh University, Shimla (HP) has undergone Industrial Training in SJVN Limited w.e.f. 08.01.2024 to 07.03.2024. During the training period, she was deputed in Finance Department, Corporate Headquarters, SJVN, Shimla, wherein she has carried out a project work on "Financial Analysis". She has successfully completed the same and submitted a report to this effect, which was evaluated and found to be Excellent.*

*During this period she was found sincere and industrious.*

*We wish her bright future and success in life.*

7/3/24

***Dr. Vandana Bagharia Sehgal)***
***Sr. Manager (HR)***
***Corporate Training & HRD***

कारपोरेट मुख्यालय : शक्ति सदन, शनान,
शिमला–171006 (हि.प्र.) www.sjvn.nic.in
शीघ्रकरण कार्यालय : एनबीसीसी कॉम्पलेक्स, टॉवर–1,
6वीं मंजिल, पूर्वी किदवई नगर, नई दिल्ली–110023
दूरभाष: 011–61901919 फैक्स: 011–61901915

Corporate H.Q. : Shakti Sadan, Shanan,
Shimla-171006, (H.P.) www.sjvn.nic.in
Expediting Office : NBCC Complex, Tower-1,
(6th Floor), East Kidwai Nagar, New Delhi-110023
Tele: 011-61901919, Fax: 011-61901915

adani
Cement

March 15, 2024

## "TO WHOM SO EVER IT MAY CONCERN"

This is to certify that Mr. Rajat S/o Shri Roshan Lal student of MBA - Finance from Himachal Pradesh University of Business School, Shimla (HP) has successfully completed his training for Eight Weeks from 02-01-2024 to 29-02-2029 at ACC Limited, Gagal Cement Works, Barmana Distt. Bilaspur [H.P].

He has successfully completed his training without stipend. We wish him good luck for future endeavor.

**MANAGER – HR**
**GAGAL CEMENT WORK**

Manager - HR
Gagal Cement Works

**ACC Limited**
Gagal Cement Works
VPO Barmana, Tehsil Sadar
Distt. Bilaspur 174 013
Himachal Pradesh, India

www.acclimited.com

CIN: L26940MH1936PLC002515

Registered Office: Cement House, 121, Maharshi Karve Road, Mumbai 400 020, Maharashtra, India

कृषि सहकारी
कर्मचारी प्रशिक्षण संस्थान
सांगटी, समर हिल, शिमला - 171 005
टेलीफोन : 0177 - 2830561 2831780 फैक्स : 2830561
ई-मेल : acstishimla@yahoo.in

hpscb
(Scheduled Bank)

AGRICULTURE COOPERATIVE
STAFF TRAINING INSTITUTE (ACSTI)
Sangti, Summer Hill, Shimla – 171 005
Phone : 0177 – 2830561 2831780 Fax : 2830561
E-Mail : acstishimla@yahoo.in

Ref.No.: HP.ACSTI / SML / 184 / 1439 / 2023-24 Dated: 30.03.2024

# TO WHOM IT MAY CONCERN

It is certified that **Mr. Rakesh Kumar**, S/o Sh. Khem Raj, V.P.O. Jarol, Teh. Sundernagar, Mandi (HP) has successfully completed the Summer Training of 12 weeks on "**Marketing of Banking Products & Services - A Case Study of H.P. State Cooperative Bank Ltd. of District Office Mandi-II at Sundernagar**" at Agriculture Cooperative Staff Training Institute (ACSTI) of the H.P. State Cooperative Bank Ltd.

SRThakur
(Sita Ram Thakur)
Principal

दि हिमाचल प्रदेश राज्य सहकारी बैंक मर्यादित
दि माल, शिमला - 171 001 (हिमाचल प्रदेश)
टेलीफोन : 0177 – 2804490, 91, 92 फैक्स : 2809991, 93
ई-मेल : info@hpscb.com

THE HIMACHAL PRADESH STATE COOPERATIVE BANK LTD.
The Mall, SHIMLA – 171 001 (Himachal Pradesh)
Phone : 0177 – 2804490, 91, 92 Fax : 2809991, 93
E-Mail : info@hpscb.com

एनएचपीसी लिमिटेड
(भारत सरकार का उद्यम)
NHPC Limited
(A Govt. of India Enterprise)

चमेरा पावर स्टेशन-II/ Chamera Power Station-II
करियां चंबा हि.प्र./Karian,
P.O. Hardaspura
Distt. Chamba (HP) -176310
फैक्स/Fax :01899-220030
CIN: L40101HR1975GOI032564

संख्या:एनएच/सीपीएस-II/मा.सं./ट्रेनिंग/2024-1705 दिनांक:- 30.03.2024

## प्रमाण पत्र/*CERTIFICATE*

*यह प्रमाणित किया जाता है कि मा. ऋषभ देव चौहान जो एच.पी.यू. बिजनेस स्कूल, समरहिल शिमला (हि.प्र.) से एमबीए (वित) सामान्य प्रबंधन कर रहे है, उन्होने एमबीए (वित) सामान्य प्रबंधन की आंशिक पूर्ति हेतु दिनांक 20.01.2024 से 30.03.2024 तक हमारे संगठन में (होम असाइनमेंट सहित) सफलतापूर्वक औद्यगिक प्रशिक्षण प्राप्त किया है ।*

*This is to certify that Mr. Rishabh Dev Chauhan student of H.P.U. Bussiness School Summer Hill, Shimla has successfully completed the industrial training (Including Home Assignments) in our organization from 20/01/2024 to 30/03/2024 in partial fulfillment of Course Curriculum Degree MBA (Finance & General Management).*

30/3/24

वरि. प्रबंधक(मा.सं.)/*Sr.Manager (HR)*

वरि. प्रबन्धक ( मा.सं. )/Sr. Manager (HR)
चमेरा-II पावर स्टेशन/ Chamera-II Power Station
एनएचपीसी लिमिटेड/NHPC Limited
करियाँ, चम्बा ( हि.प्र )/Karian, Chamba (H.P.)



Scanned with CamScanner

adani
Cement

February 26, 2024

## "TO WHOM SO EVER IT MAY CONCERN"

This is to certify that Ms. Ritika Thakur D/o Shri Balwant Singh student of MBA in Human Resources from Himachal Pradesh University Business School, H.P.University, Summer Hill, Shimla (HP) has successfully completed her Eight Weeks training starts from 01-01-2024 to 26-02-2024 at Human Resources Depatment ACC Limited, Gagal Cement Works, Barmana Distt. Bilaspur [H.P].

She has successfully completed her training without stipend. We wish her good luck for future endeavor.

**MANAGER – HR**
**GAGAL CEMENT WORK**

**ACC Limited**
Gagal Cement Works
VPO Barmana, Tehsil Sadar
Distt. Bilaspur 174 013
Himachal Pradesh, India

www.acclimited.com

CIN: L26940MH1936PLC002515

Registered Office: Cement House, 121, Maharshi Karve Road, Mumbai 400 020, Maharashtra, India

The Kangra Central Co-op. Bank Ltd.
H.O. Civil Line, Dharamshala,
Distt. Kangra (H.P.) 176215

कांगड़ा केन्द्रीय सहकारी बैंक सीमित
मु. का.: सिविल लाईन, धर्मशाला,
जिला कांगड़ा (हि.प्र.) 176215

Ref. No. 544.

Date .....

BO THURAL

30/03/2024

## *TO WHOM IT MAY CONCERN*

*This is to certify that Mr. Sachin Rana S/o Sh. Sandeep Kumar Vill. Bharanta PO Sai, Tehsil Thural, Distt. Kangra(HP), a student of MBA bearing Roll No. 36220010086 of HPU Shimla, has completed the On-The-Job Training as Relationship Manager w.e.f. 15/02/2024 to 30/03/2024.*

*BRANCH MANAGER*

The K.C.C. Bank Ltd.
Tel : 01894-276649
THURAL

Fundsroom

connect@fundsroom.com
www.fundsroom.com

# Internship Certificate

Date: 11th February , 2024

To Whomsoever It May Concern

We are pleased to confirm that **Mr. Sachin Chandel** has successfully undertaken his role as a **Financial analyst Intern** and completed his internship for a period of 45 days from 28th December 2023 to 11th February 2024.

During his time at Fundsroom, he showcased some key traits which emphasized managerial and technical skills related to his domain which included financial knowledge related to various investment sectors, research and analysis regarding the topic related to the product/service which overall impacted a positive manner which led to the growth of the organization.

We would like to wish him best of luck for his future professional journey ahead and we believe his dedication, knowledge and zest to work would surely help the future workplace.

Thanking you!

Yours Sincerely
Fundsroom Investment Services.

Fundsroom Investment Services
Reg No- 48100052 40594

Pooja Shedge
BusinessManager

Fundsroom

connect@fundsroom.com
www.fundsroom.com

# Internship Certificate

Date: 11th February , 2024

To Whomsoever It May Concern

We are pleased to confirm that **Mr. Sachin Chandel** has successfully undertaken his role as a **Financial analyst Intern** and completed his internship for a period of 45 days from 28th December 2023 to 11th February 2024.

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We would like to wish him best of luck for his future professional journey ahead and we believe his dedication, knowledge and zest to work would surely help the future workplace.

Thanking you!

Yours Sincerely
Fundsroom Investment Services.

Fundsroom Investment Services
Reg No- 48100052 40594

Pooja Shedge
BusinessManager

एसजेवीएन
SJVN

# Certificate of

# TRAINING COMPLETION

SR No. : 279

This is to certify that Mr./Ms. SAHIL MEHTA

S/o D/o Sh. SANTOSH MEHTA, student of MBA (HR) from HIMACHAL PRADESH UNIVERSITY, SHIMLA has undergone industrial training in SJVN Limited at "Nathpa Jhakri Hydro Power Station - 1500 MW" – Jhakri w.e.f. 04/01/2024 to 15/02/2024.

Mr./Ms. SAHIL MEHTA has completed his/her training successfully. We wish all success and bright future in his/her career.

No. : 6121

Date : 15/02/2024

Place : JHAKRI

15/02/24

Authorized Signatory

प्रबन्धक
मानव संसाधन विभाग
एन. जे. एच. पी. झाकड़ी

Seal

# JEENA SIKHO® LIFECARE LIMITED

(Formerly known as Jeena Sikho Lifecare Private Limited)
REGD OFFICE: SCO-11, Kalgidhar Enclave, Baltana, Zirakpur, Punjab-140604, 01762-513185
Branch: B-26, Opp. Metro Pillar No. 223, Rohtak Road, New Multan Nagar, Delhi - 110056
CIN NO.: L52601PB2017PLC046545 Email ID.: contact@jeenasikho.co.in

Ref. No. HR/JSLC/OPS/2024/I/127 Dated 19-02-2024

## INTERNSHIP COMPLETION CERTIFICATE

**Ms. Sakshi Gupta D/O Mr. Desh Raj Gupta** student of **Himachal Pradesh University** has successfully completed her **2 months** Internship program in **"Human Resource Department"** at Jeena Sikho Lifecare Limited, Zirakpur.

During her tenure with us, she was found to be sincere, hardworking and trustworthy.

We wish her all the best in her future endeavors.

Jeena Sikho Lifecare Limited

Akansha Auth. Signatory

Human Resources

Jeena Sikho Lifecare Ltd.

UNIQUE CODE : 5504976

# CERTIFICATE

## OF COMPLETION

## SAKSHI KAISTH

*has successfully completed his/her internship at GreenBhumi as an HR Intern for a period of 2 months .We are pleased to command his/her sincerity, dedication and commitment to work. His/Her contribution have been invaluable to our team and we are grateful for his/her hard work and dedication. We wish him/her all the best in his/her future endeavors, and we are confident that he/she will continue to achieve great things.*

**FROM -23/01/2024**
**TO - 30/03/2024**

**Mayank Shekhar Pathak**
**CEO**

TOPTROVE FOUNDATION
Innovating Education
TTF
Serving Society
NEW DELHI 110096

Note:- This is an E-Certificate, Contact: contact@greenbhumi.com for authentication

DARPAN
DL/2021/0285035

U85300DL2021NPL378475

UQ - 2021082676

MSME
UDYAM-DL-02-0012667

ACME GROUP

Date : 15th March' 2024

## TO WHOMSOEVER IT MAY CONCERN

This is to Certify that **Ms. Samiksha**, has completed an Internship with **ACME Finvest Private Limited** into Wealth Management from 18th January' 2024 to 15th March' 2024.

During her tenure of Internship **Ms. Samiksha** observed to be enthusiast and determined to new learnings, also maintained professional demeanor and showcased good moral character throughout.

Her interest into Financial Research and various Assets of Welath Management is prise worthy.

Wishing her good wishes for her future endeavors.

**ACME Finvest Private Limited,**

V-Ramteri
15/03/2024

**Authorised Signatory**

REGD. ADDRESS :
BLDG. NO. 8, FIRST FLOOR,
104-107, JOGANI IND. COMPLEX,
SION - CHUNABHATTI,
MUMBAI - 400 022. INDIA
TEL. : 022 - 6825 2525
FAX : 022 - 2405 7708
E-MAIL : info@naxparlab.com
CIN No. : U52310MH2004PTC144449

# Naxpar Pharma Pvt. Ltd.

WORKS : 182, VILLAGE GURUMAJRA, TEHSIL NALAGARH,
BADDI, DIST. SOLAN (H.P.)-174 101.
TEL. : 01795-248666

**Date:- 05.03.2024**

## TO WHOM IT MAY CONCERN

This is certify that Ms. Sandhya D/O Mr. Anil Kumar, student of Himachal Pradesh University Business School Shimla has under gone training in our Organization from 08.01.2024 to 05.03.2024 in Account Department.

During the training time we found her sincere and hardworking.

We wish her all success in her future endeavours and a very bright future.

For **Naxpar Pharma Pvt. Ltd.**

**Authorized Signatory**

एसजेवीएन लिमिटेड
**SJVN Limited**
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

**SJVN/CHQ/HR/HRD/115/1666** **07.03.2024**

## To Whom So Ever It May Concern

*This is to certify that Ms. Sanya Kanwar, student of MBA (HR), Himachal Pradesh University Business School, Himachal Pradesh University, Shimla (HP) has undergone Industrial Training in SJVN Limited w.e.f. 08.01.2024 to 07.03.2024. During the training period, she was deputed in Human Resource Department, Corporate Headquarters, SJVN, Shimla, wherein she has carried out a project work on HR Structure in SJVN". She has successfully completed the same and submitted a report to this effect, which was evaluated and found to be Excellent.*

*During this period she was found sincere and industrious.*

*We wish her bright future and success in life.*

7/3/24

***Dr. Vandana Bagharia Sehgal)***
***Sr. Manager (HR)***
***Corporate Training & HRD***

एसजेवीएन लिमिटेड
**SJVN Limited**
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

**SJVN/CHQ/HR/HRD/115/** 1703 **14.03.2024**

## To Whom So Ever It May Concern

*This is to certify that Mr. Saurav Negi, student of MBA (Finance), HPUBS Shimla has undergone Industrial Training in SJVN Limited w.e.f. 08.01.2024 to 14.03.2024. During the training period, he was deputed in Finance Department, Corporate Headquarters, SJVN Shimla. He has successfully completed the internship wherein he has carried out a project work on "Past 10 Years' expenditure of SJVN". He has successfully completed the same which was evaluated and found to be Excellent.*

*During this period he was found sincere and industrious.*

*We wish him bright future and success in life.*

14/3/24

***(Dr.Vandana Bagharia Sehgal)***
***Sr. Manager (Corporate Training & HRD)***

Issued Date: *15-03-2024*

CIN No- U85500HR2023PTC115118

# CERTIFICATE
OF INTERNSHIP

UNIFIED MENTOR
YOUR SKILL, SUCCESS & JOURNEY

# *Shagun Kumar Sharma*

***For successfully completing two months internship as** Data Analyst Intern **at Unified Mentor Pvt Ltd. Dated from** 15-01-2024 **to** 15-03-2024*
***During the internship we found him/her consistent & hard-working. We wish them all the best for their future endeavors.***

Verify at:

**Paras Grover**
*Director*

AN ISO **9001:2015** Certified Company

**Sanket Patil**
*Awarded By*

**PAISSO TECHNOLOGY PVT. LTD.**
C 127, 1st Floor, Phase 8 Industrial Area, Mohali (160071)

DialaBank
India's First Financial Helpline

**Mar 30, 2024**

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Shayna Dharwal has completed her internship with **Paisso Technology Pvt. Ltd.** at the position of **Banking: Relationship Manager (Intern)** from **Jan 04, 2024** to **Mar 30, 2024.**

During this tenure of internship, Shayna remained involved in her work and she is a professionally sound, hard-working and devoted. She has the motivation to take initiatives and we feel delighted that she had been helpful in the advancement of our organization.

Moreover, she has a genial temperament and can efficiently work in a team for the realization of organizational goals and objectives.

We wish her all the best for future endeavor.

**With Best Wishes**

Jasleen Mangat

**Jasleen Kaur Mangat – HR Head**

कृषि सहकारी
कर्मचारी प्रशिक्षण संस्थान
सांगटी, समर हिल, शिमला - 171 005
टेलीफोन 0177 - 2830561 2831780 फैक्स 2830561
ई मेल acstishimla@yahoo.in

AGRICULTURE COOPERATIVE
STAFF TRAINING INSTITUTE (ACSTI)
Sangti, Summer Hill, Shimla - 171 005
Phone : 0177 2830561 2831780 Fax : 2830561
E Mail : acstishimla@yahoo.in

Ref.No.: HP.ACSTI / SML / 184 / 1414 / 2023-24

Dated: 20.03.2024

# TO WHOM IT MAY CONCERN

It is certified that **Ms. Simran,** D/O Sh. Gopi Nand, VPO Yangpa, Tehsil Nichar Kinnaur (HP) has successfully completed the Summer Training of 02 months on "**Financial Performance Analysis of the H.P. State Cooperative Bank Ltd.- A Comparative Study of B.O. Summerhill, B.O. Totu**" at Agriculture Cooperative Staff Training Institute (ACSTI) of the H.P. State Cooperative Bank Ltd.

For Principal

दि हिमाचल प्रदेश राज्य सहकारी बैंक मर्यादित
दि माल, शिमला - 171 001 (हिमाचल प्रदेश)
टेलीफोन 0177 - 2804490, 91, 92 फैक्स 2809991, 93
ई मेल

THE HIMACHAL PRADESH STATE COOPERATIVE BANK LTD.
The Mall, SHIMLA - 171 001 (Himachal Pradesh)
Phone : 0177 - 2804490, 91, 92 Fax : 2809991, 93
E-Mail :

ADITYA BIRLA

UltraTech

March 19th, 2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Sourabh Kalia,** a bonafide student of Himachal Pradesh University Business School, has completed his Internship Project on **"Market Research"** from 3rd January 2024 to 17th Feb 2024 in Una under the guidance of **Mr. Amit Sharma.**

His conduct was found satisfactory, and we wish him all the best for future endeavors.

**Yours Sincerely,**
**For ULTRATECH CEMENT LIMITED,**
**CEMENT MARKETING DIVISION**

**NAVNEET CHAUHAN**
**REGIONAL-HR**
**PUNJAB, J&K and HP**
**CMD, BPD & RMC DIVISION**

UltraTech CEMENT
The Engineer's Choice

UltraTech Cement Limited
(Cement Business - Marketing)
Adarsh Lifestyle Mall, (Near Passport Ofice), Plot No. 50, Fifth Floor, Industrial Area, Phase-2, Ramdarbar, Chandigarh - 160002
Tel.: 0172-5046281 | W: www.ultratechcement.com
Registered Office: 'B' Wing, Ahura Centre, 2nd Floor, Mahakali Caves Road, Andheri (East), Mumbai 400 093, India
T: +91 22 6691 7800 / 6691 7801 | CIN: L26940MH2000PLC128420

एसजेवीएन लिमिटेड
**SJVN Limited**
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

**SJVN/CHQ/HR/HRD/115/1669** **07.03.2024**

# To Whom So Ever It May Concern

*This is to certify that Ms. Stuti, student of MBA (Finance), Himachal Pradesh University Business School, Himachal Pradesh University, Shimla (HP) has undergone Industrial Training in SJVN Limited w.e.f. 08.01.2024 to 07.03.2024. During the training period, she was deputed in Finance Department, Corporate Headquarters, SJVN, Shimla, wherein she has carried out a project work on "Financial Analysis". She has successfully completed the same and submitted a report to this effect, which was evaluated and found to be Excellent.*

*During this period she was found sincere and industrious.*

*We wish her bright future and success in life.*

7/3/24

***Dr. Vandana Bagharia Sehgal)***
***Sr. Manager (HR)***
***Corporate Training & HRD***

Certificate No: IAMMAVEN-12122019-202301621

# CERTIFICATE

## OF COMPLETION

THIS CERTIFICATE IS AWARDED TO

**Dipit Aggarwal**

This certificate is awarded to Dipit Aggarwal for completing the "Sales Development" Internship Program at Mavenwit.
(Jan 2024 - Apr 2024)

17.04.2024

DATE

CEO - Mavenwit

Metrocraft

**Ref: MC/HR/TC/24-64**
**14th March, 2024**

## TO WHOM IT MAY CONCERN

This is to certify that **Mr. Divyansh Mehta, S/o. Mr. Rajesh Mehta**, student of Master of Business Administration (MBA) 4th semester, Himachal Pradesh University Business School Shimla has successfully completed industrial training in our organization in Account department from **15/01/2024** to **14/03/2024** as a part of his curriculum in the academic year 2023-2024.

We wish him every success in all his future endeavours.

For **Metrocraft**

For Metrocraft

Manager HR

**Authorized Signatory**

ADDRESS: KHASRA NO.-1874/450/1/1 & 2091/45
BHATOLIKALAN, BADDI, SOLAN (H.P.)
EMAIL: info@metrocraft.in, mgr.admin@metrocr

एसजेवीएन लिमिटेड
SJVN Limited
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

SJVN/CHQ/HR/HRD/115/03

01.04.2024

## To Whom So Ever It May Concern

*This is to certify that Mr. Gaurav Verma, student of MBA (HR), Himachal Pradesh University Business School, Himachal Pradesh University, Shimla (HP) has undergone Industrial Training in SJVN Limited w.e.f. 01.01.2024 to 29.02.2024. During the training period, he was deputed in Human Resource Department, Corporate Headquarters, SJVN, Shimla, wherein he has carried out a project work on "Recruitment and Selection Process of SJVN". He has successfully completed the same and submitted a report to this effect, which was evaluated and found to be Excellent.*

*During this period he was found sincere and industrious.*

*We wish him bright future and success in life.*

1/4/24

**Dr. Vandana Bagharia Sehgal)**
**Sr. Manager (HR)**
**Corporate Training & HRD**

DocuSign Envelope ID: 05E08951-58EA-4F95-9B27-AE58605D2ACA

Ylytic

**Ylytic Technologies Pvt. Ltd.**
C 602, Nandan Spectra,
Balewadi, Pune, 411045
CIN: U72502PN2022PTC210533

1st April 2024

# Certificate of Internship

This is to certify that **Mr. Hardik Mittal** has completed an internship as a '**Business Development – Intern'** with Ylytic Technologies **from 8th January '24** to **31st March'24.**

His conduct was professional, and we wish him the best for future.

DocuSigned by:
Mradul Sharma
53CDA429FA334D4...

Mradul Sharma
Director

www.bslltd.com

# BSL Ltd.

REGD. OFFICE : 26,Industrial Area,
Gandhi Nagar, BHILWARA-311 001 (Rajasthan) INDIA
Tel. : (91 1482) 249101-102, 245000
E-mail : gen@bslsuitings.com, Website : www.bslltd.com
C.I.N. : L2430RJI970PLC002266

BSL/HRM/05/2024-2025
Date:- 02.04.2024

**TO WHOMSOVER IT MAY CONCERN**

This is certified that Miss Heena, student of Himachal Pradesh University Business school, Shimla Himachal Pradesh has carried out the Internship at our BSL Limited, Manadpam Unit, Bhilwara in our human resource management Department from 01.01.2024 To 31.03.2024. During this period we found her professional, honest and hardworking.

This certificate is being issued for successfully completion of Internship.

Sanjay Tripathi
**(GM HR & IR)**

एसजेवीएन लिमिटेड
SJVN Limited
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

SJVN/CHQ/HR/HRD/115/ 1716

18.03.2024

## To Whom So Ever It May Concern

*This is to certify that Mr. Abhishek Sharma, student of MBA (HR), Himachal Pradesh University Business School/HPU, Summer Hill has undergone Industrial Training in SJVN Limited w.e.f. 01.01.2024 to 29.02.2024. During the training period, he was deputed in HR Department, Corporate Headquarter SJVN, Shimla, wherein he has carried out his Industrial Training. He has successfully completed the internship, which was found to be Excellent.*

*During this period he was found sincere and industrious.*

*We wish him bright future and success in life.*

18/3/24

***(Dr. Vandana Bagharia Sehgal)***
***Sr.Manager (HR)***
***Corporate Training & HRD***

Corporate H.Q. : Shakti Sadan, Shanan,
Shimla-171006. (H.P.) www.sjvn.nic.in
Expediting Office : NBCC Complex, Tower-1,
(6th Floor), East Kidwai Nagar, New Delhi-110023
Tele: 011-61901919, Fax: 011-61901915

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

FUJIKAWA POWER

**Ref: OFPPL/HR/April-24** **Date 06.04.2024**

# Certificate of Completion of Internship

## To Whom It May Concern

This is to certify that Mr. **Harsh Ranjan Garg**, an MBA student from Himachal Pradesh University Business School, Summer Hill, Shimla, Himachal Pradesh 171005, has successfully completed a 3-months internship with our organization from January 8, 2024, to April 6, 2024.

During his tenure with us, he exhibited commendable conduct. He consistently demonstrated sincerity and diligence in his work. His friendly demeanor contributed positively to the work environment.

We commend Mr. Harsh Ranjan Garg for his hard work and dedication throughout his internship. On behalf of our organization, I extend our best wishes to him for all his future endeavors.

For **Okaya Fujikawa Power Pvt. Ltd**

FOR OKAYA FUJIKAWA POWER PRIVATE LIMITED

Manager HR

(Manager HR)

**OKAYA FUJIKAWA POWER PVT. LTD.**
REGD. OFFICE : H-19, Udyog Nagar, Rohtak Road, New Delhi - 110 041, India.
vp.fbcl@okayapowerltd.com +91 11 47451500
CIN: U31109DL2022PTC397158

Fujikawa Power : Village Handa Kundli, Nalagarh Road, Baddi

जोगिन्द्रा केन्द्रीय सहकारी बैंक मर्यादित
मुख्य कार्यालयः राजगढ़ रोड़, सोलन, हि.प्र.
**Jogindra Central Cooperative Bank Ltd.**
**Head Office: Rajgarh Road, Solan H.P.**
**Phone: 01792-220305, 225690**
**Website: www.jccb.co.in**

100 Years of Honour & Trust

**No.Estt./St.Int/144/2024/** 13208 **Dated:** 28/3/24

# Certificate

This is to certify that Mr Mohit Kumar S/O Sh Madan Lal, Student of MBA, Himachal Pradesh University Bussiness School, Shimla has successfully completed Internship training w.e.f **03/02/2024 to 16/03/2024** for Six weeks at Jogindra Central Cooperative Bank Ltd, Branch Office Shamti. All necessary details were provided from our side for completion of the training.

During the period of internship he was found punctual, hardworking and inquisitive.

We wish him very best in all his future endeavors.

**Assistant General Manager**

Global AgriSystem
A member of Katra Group
An ISO 9001:2015 certified company

Visiting address:
Horizon, 5th Floor Plot No-445,
Udyog Vihar, Phase V Gurugram 122016
Tel : + 91- 1124 415 3830
E-mail : consulting@globalagri.com
Website : www.globalagri.com
CIN: U67190DL1998PTC091660

**GAPL/Intern /2024-05**

**Date: 1st April 2024**

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Mr. Jatin Saini**, student of Himachal Pradesh University Business School, has completed the assigned internship projects work on **"Baseline study on Farmer Producer Organisations in Uttar Pradesh and Karnataka, Research on measuring the impact of Fairtrade standards & certification in cotton cultivation in India and Annual Outcome Survey Report of The Nav Tejaswini Program by Mahila Arthik Vikas Mahamandal (MAVIM)"** under the guidance of **"Ms. Amisha Sharma, Asst. Manager, Global AgriSystem Pvt. Ltd".**

The project was undertaken from **02nd Jan 2024 to 31st March 2024.**

**For Global AgriSystem Pvt. Ltd**
Yours Sincerely

**S K Sharma**
**Managing Director**

GLOBAL AGRISYSTEM PVT. LTD. NEW DELHI

SENTISS
Clear vision of the future

Date: - 06 MAR 2024

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Jyotasna** D/O Sh. Rakesh Kumar, student of MBA, from Himachal Pradesh University Business School, Shimla, has undergone Industrial Training of **Two Months** in Finance & Human Resources Department from **03 JAN 2024** to **06 MAR 2024** with our company.

We wish her all the best for a bright career and future.

With warm regards,

For **SENTISS PHARMA PVT. LTD.**

15 MAR 2024

**Authorized Signatory**

**Sentiss Pharma Private Limited** (Formerly known as Promed Exports Private Limited)

**Manufacturing Plant**
Village Khera Nihla, Tehsil Nalagarh,
District Solan, Himachal Pradesh-174101, India
Tel: +91-9805512822
Fax: +91-1795-220527
Website: www.sentisspharma.com

**Registered Office**
212, Ashirwad Commercial Complex,
D-1, Green Park, New Delhi-110016, India
Tel: +91-11-26863503
Fax: +91-11-26968517
CIN No.: U74899DL1994PTC056894

young createch Pvt. Ltd.

CIN - U72900PB2022PTC056700

# OFFER LETTER

28 MARCH 2024
AAHANA
7876011345
Dear AAHANA,

We were all very excited to meet & get to know you over the past few days. We've been impressed with your background & would like to formally offer you the position of HR EXECUTIVE. This is a full-time position.

You'll be reporting to the head of the respective department.
Your internship was commenced from 10th January 2024 which was for 6 months. At Young Createch, we are offering you PPO (Pre-Placement Offer) within the HR department at our company.

Please sign the duplicate copy of this letter and return to us as a token of your acceptance of the terms and conditions of the assignment, or you can give your acceptance over the email also. We welcome you to our organization and sincerely hope that your association with our company will beof mutual benefit and satisfaction. We would love to have you on our team.

**Note:** - We will provide you with Employment Agreement in which will be mentioned your salary andcompany terms after the completion of internship, so we look forward you on broad

Best Regards,
(HR Team)
YOUNG CREATECH PVT.LTD

Date: 28/03/2024

For Young Createch Private Limited

Director

Accepted / Signed

Plot Number E-253, Cabin No. B2,
Basement Phase 8B, Sector 74,
Industrial Area, SAS Nagar, Mohali

ceo@youngcreatech.com

www.youngcreatech.com

# EMPLOYMENT AGREEMENT

This **Employment Agreement** (from now on referred to as this "Agreement") is made on this **10TH JANUARY 2024**

## BY AND BETWEEN:

**YOUNG CREATECH PRIVATE LIMITED,** a company incorporated under the provisions of the Companies Act, 1956 and having its registered office at **Plot Number E-253, Cabin No. B2, Basement Phase 8B, Sector 74, Industrial Area, SAS Nagar, Mohali, Punjab-160055,** (hereinafter referred to as the **"Company"**, which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors in interest, administrators and permitted assigns), of the FIRST PART and

AAHANA
~~AVINA GOSWAMI~~, a citizen of India and presently residing at TEMPORARY ADDRESS **HOUSE NO 176 O'CHICKEN KHARAR LANDRAN ROAD ,SECTOR 127, SHIVALIK CITY, KHARAR PUNJAB 140301** PERMANENT ADRESS: - **NEEL KUNJ NIWAS BANOOTI, P.O. ROURI, SHIMLA ,HP-171011** (from now on referred to as the **"Employee"**).

## WHEREAS:

1. The Company is in the business of **IT SOFTWARE DESIGN & DEVELOPMENT**

2. The Company, in the course of its business, has acquired or may acquire confidential property, information, and trade secrets, and made or will make discoveries and improvements or developments, that it desires to keep confidential.

3. The Company undertakes several assignments on behalf of clients that involve the development of Intellectual Property (as defined hereinafter) and which also entail confidentiality obligations. The Company must respect the Intellectual Property and confidentiality obligations of its clients and therefore, in turn, the employees are also expected to respect the same.

4. The Company wishes to safeguard its good will, business and proprietary information to which the employee may have access.

5. The Company desires to engage the Employee on the terms and conditions outlined in this Agreement.

**NOW, THEREFORE,** in consideration of the mutual promises set forth herein, the Company and the Employee at this moment agree as follows:

## 1. DEFINITIONS AND INTERPRETATION

In this Agreement, unless the context otherwise requires:

**"Agreement"** means this Agreement including any Annexures and Schedules attached to this Agreement and as may be amended and modified from time to time.

**"Business"** means **YOUNG CREATECH PRIVATE LIMITED**

**"Competitor"** means and includes all such Persons (as defined hereinafter) whether domestic or

**"Confidential Information"** includes but is not limited to information which is or fairly be considered to be of a confidential nature, which is obtained whether (without limitation) in graphic, written, electronic or machine-readable form or orally, by the Employee; and whether or not the information is expressly
stated to be confidential or marked as such, in writing, and also includes all Intellectual Property, but is not limited to:

Information of value or significance to the Company or its competitors (present or potential) such as:

Customer data, in particular, names, addresses, sales figures and sales conditions of the Company and its clients.

Distribution data, in particular, names, addresses, sales figures and sales conditions of distributors, agents and licensees of the Company.

Manufacturing data, in particular, procurement and manufacturing procedures, the fees, discounts, commissions and other credits relating to the software.

Supplier's data, in particular, names, addresses, sales figures, and sales conditions of suppliers of software and hardware to theCompany, whether in India or abroad.

Business data, particularly data relating to new products, promotion campaigns, distribution strategies, license agreements and joint ventures in which the Company is involved.

Software data, particularly information relating to the software and the modules thereof as well asany devices designed by the Company to prevent unauthorized copying.

Research and development data, particularly information relating to the software andhardware developments of the Company.

Financial data, in particular, concerning budgets, fees and revenue calculations, sales figures, financial statements, profit expectations and inventories of the Company.

Original information supplied by the Company;

Information not known to competitors of the Company nor intended by the Company for general dissemination, including but not limited to, policies, strategies, the identity of various product suppliers or service-providers, billing schedules, needs ofits clients, information as to the profitability of specific accounts, and information about the Company itself and its executives, officers, directors and employees;

Any business or technical information relating to the Company, including but not limited to financial information, equipment, documentation, strategies, marketing plans, prospective leads or target accounts, pricing information, information relating to existing, previous and potential customers and contracts disclosed by the Company to the Employee;

Any copies of the above-mentioned information; but do not include:

a) that which is in the public domain other than by the Employee's breach, of this The agreement, or of any other confidentiality agreement;

b) that which was previously known as established by written records of the Employee prior to receipt from the Company;

c) that which was lawfully obtained by the Employee from a third Party; and

d) that which was developed independently by the Employee who had no access to the Confidential Information provided by the Company.

**"Intellectual Property"** includes:

all patents, trademarks, business processes, domain names, works of authorship, designs, utility models, and copyrights whether registered or unregistered, which are owned by the Company or acquired or developed by the Company in the course of its business, including, but not limited to moral rights and any similar rights in any country, whether negotiable or not and also includes any applications for any of the preceding and the right to apply for them in any part of the world; and all processes, inventions, ideas, programs, codes, software, algorithms, discoveries, correspondence, trade secrets, databases, know-how, creations or improvements upon, additions or any research effort relating to any of the above, whether registrable or not.

**"Person"** means an individual, corporation, partnership, limited liability company, association, trust or other entity or organization, including a government or the political subdivision or an agency or instrumentality thereof.

**"Property"** includes, but is not limited to the following:

internal memoranda, computer equipment (including software), training materials, rules, books, and all other like property, including all copies, duplications, replications, and derivatives of such property;

any residential accommodation, furniture, fixtures, fittings and furnishings, communication equipment, automobileand all other items; and,

any tangible expression of Confidential Information, including, without limitation, photographs, plans, notes, renderings, journals, notebooks, computer programs and samples relating thereto.

**"Rules"** means the Company's manual, which lays down the policies, procedures, rules etc. in connection with the day- to- day operations of the Company, the behavior of its employees, the overall management of the Company and its clients/customers, as amended from time to time by the Company.

**"Termination Date"** means the date on which the employment of the Employee is ended and which shall in the case of termination by the Company be effective from the date on which the Notice Period (as defined hereinafter), if any, is over and in the case of termination by the Employee, be effective from the date on which Notice period is over or, in the event the Notice Period is waived under.

**Section 8.3**, the date on which the Company permits the Employee to leave service. Unless the context otherwise requires,

(a) Words importing one gender include the other gender.

(b) Words importing the singular include the plural and vice versa.

(c) Any reference to a statutory provision shall be deemed to include a reference to any statutory modification or re-enactment.

(d) the Section headings do not form part of this Agreement and shall not be taken into account in its construction or interpretation and

(e) any reference to the Employee shall, if appropriate,include his personal representatives.

## 2. EMPLOYMENT

The Company hereby employs the Employee, upon the terms and conditions set forth in this Agreement and in the Rules of the Company.

The Company can transfer the Employee to any other office of the Company in India or overseas or to any associate or subsidiary of the Company, at the discretion of the Company. In such case, the Employee shall also be bound by any policy of the Company, in existence at the date of this Agreement or that may be subsequently framed by the Company.

The Employee shall perform such duties and obligations as may from time to time be assigned to him by the Company. Annexure 1 hereto describes the scope of services of the Employee). During the term of the Agreement, the Employee shall be bound by the Agreement, the Rules of the Company and other documents of the Company, as amended from time to time.

## 3. NON-COMPETITION AND NON-SOLICITATION

During the term of the employment with the Company and for a period of six months (6) following the Termination Date in case of Competitors worldwide, the Employee shall not, directly or indirectly, either as an individual on his own account or as a partner, employee, consultant, advisor, agent, contractor, director, trustee, committee member, office bearer, or shareholder (or in a similar capacity or function) own or operate in India a business in competition with the business of the Company;

solicit the employment of or advise any other employee of the Company to terminate his contract or relationship with the Company or accept any contract (directly or indirectly) or another arrangement for providing services to any other person or organization; or,

Contact any of the existing or prospective clients of the Company, to entice such clients away from the Company or to damage in any way their business relationship with the Company.

The Company may, however, relieve the Employee, from complying with the provisions of this Section in whole or in part.

## 4. CONFIDENTIALITY

The Employee shall not disclose, at any time, to any Person or Competitor who is not employed, part of

or associated with the Company; or use for any purpose that is not within the scope of his services, any Confidential Information, except in accordance with any written exception made by the Company.

Notwithstanding the aforesaid provisions of this Section, the Employee may disclose Confidential Information were compelled to do so, by any government, judicial or quasi-judicial authority;

Provided, however, that the Employee shall in such a case give the Company reasonable notice of any prospective disclosure and shall assist the Company in obtaining an exemption or protective order preventing such disclosure.

## 5. INTELLECTUAL PROPERTY

All Intellectual Property conceived (whether during regular business hours or not), discovered, or made by Employee during the course of his employment with The company, and other ideas, techniques or principles related to the business of the Company, shall be promptly disclosed in writing to the Company.

All rights in the Intellectual Property shall belong to the Company immediately upon the formation of such rights, whether or not the final word/ mark/invention in which the Intellectual Property vests is formed or completed, for the full term of each and every such right, including renewal or extension of any such term. The Employee shall perform all acts, including the execution of documents and assistance in legal proceedings that are necessary to defend or establish the rights of the Company in the Intellectual Property in any country.

The Employee irrevocably assigns to the Company, the Intellectual Property in all works developed during the courseof his employment, free from encumbrances of any kind.

The Employee explicitly waives all moral rights in any of the works developed for the company during the courseof his employment with the Company.

The Employee represents and warrants that he has not violated the Intellectual Property rights of any Person and covenants that he shall not violate the Intellectual Property rights of any person in the course of his employment with the Company.

Provided that in the event the Company is held liable for the violation of any Intellectual Property rights by the Employee, the Employee undertakes to indemnify the Company against any and all losses, liabilities, claims, actions, costs, and expenses, including reasonable attorney's fees and court fees resulting there- from.

## 6. TERM

Subject to the provisions of termination as from now on provided, the term of this Agreement shall begin on **10th JANUARY 2024** and shall continue until terminated by either Party following either **Section 8** or **Section 2** hereof. The obligations of the Employee under this Agreement will survive both the execution of this Agreement and the Termination Date.

## 7. TERMINATION OF EMPLOYMENT

The Company may terminate the Employee's employment with the Company under this Agreement, with immediate effect, in the event of misconduct, fraudulent, dishonest or undisciplined conduct of the

Employee, or insolvency or conviction of the Employee for any offence involving moral turpitude, or breach of any terms of this Agreement or Rules of the Company or other documents or directions of the A company by the Employee, or any unauthorized absence of the Employee from the place of work for more than seven (7) consecutive working days, or closure of the business of the Company, or redundancy of the post of the Employee in the Company.

Not with standing anything mentioned in this Agreement, the Company may, by giving reasonable cause, terminate the Employee's employment under this Agreement upon written notice to the Employee, following the provisions of this Section:

The termination would be effective after sixty (60) days from the date of the receipt (by the Employee) of such notice (from now on referred to as the **"Notice Period"**).

If the employee is on probation, the Notice Period referred to in **Section 7.2.1** is dispensed with and the Company may, without assigning a cause, terminate the Employee's employment with immediate effect.

The Employee may, without assigning any cause, resign from his/her employment under this Agreement upon written notice to the Company and completion of the Notice Period. However, the Employee may have to give an exit interview,at the request of the Company. The Company may, at its sole discretion, permit the Employee to leave service during the Notice Period.

## 8. THE COMPANY PROPERTY – EMPLOYEE'S DUTY TO RETURN

The Company's Intellectual Property and Property acquired by the Employee after signing this Agreement shall be returned to the Company not later than the final date of his employment with the Company.

Until such time as all the Property is returned to the Company, the Company shall, in addition to initiating legal proceedings for recovery, be entitled to withhold any salary, emoluments or other dues of the Employee and may further, at its discretion, deduct there from, the full value of the Property calculated at it is then replacement price. In addition, the Company may also take any other legal action against the Employee and shall have the right to recover the full amount of the replacement price, if the dues of the Employee are not sufficient to cover the replacement price. Further, the Employee shall compensate the Company for any misuse or damage to the property of the Company.

## 9. INDEBTEDNESS

If during the Employee's employment under this Agreement, the Employee becomes indebted to the Company for any reason, the Company may, if it so elects, set off any sum due to the Company from the Employee against the compensation payable to the Employee and collect any remaining balance from him.

## 10. NOTICES

All notices given pursuant to this Agreement shall be in writing and shall be deemed to be served as follows:

(a) in the case of any notice delivered by hand when so delivered;

(b) if sent by pre-paid post or courier, on the third clear day after the date of posting;

(c) in the case of any notice sent by facsimile, upon the receipt of a confirmation copy at the sender's facsimile machine; and

(d) If sent by e-mail, 24 hours after the e-mail is sent.

Any notice to the company to be given by any Party to this Agreement shall be deemed to be duly served if delivered by prepaid registered post or through a delivery service/courier, by hand delivery, by fax or by email to the following address:

## If to the Company:

Company Address: Plot Number E-253, Cabin No. B2, Basement Phase 8B, Sector74, Industrial Area, SAS Nagar, Mohali, Punjab-160055,
Designation: DIRECTOR
E-mail: ceo@youngcreatech.com

## If to the Employee:

Temporary Address with pin code: HOUSE NO 176 O'CHICKEN KHARAR LANDRAN ROAD, SECTOR 127, SHIVALIK CITY, KHARAR PUNJAB 140301

Permanent Address with pin code: -NEEL KUNJ NIWAS BANOOTI P.O. ROURI SHIMLA, HP.171011

Any change in the address of either party shall be notified to the other party in the same manner mentioned here in above.

## 11. WAIVER

Any waiver by the Company of a breach or threatened breach of this Agreement by Employee shall not be construed as a waiver of any subsequent breach by Employee.

## 12. ACKNOWLEDGMENTS

Employee acknowledge that he has been provided with a copy of this Agreement for review prior to signing it, that he has reviewed it and that he understands the purposes and effects of this agreement.

## 13. DISPUTE RESOLUTION

The Company and the Employee hereby agree that they intend to discharge their obligations in the utmost good faith. They, therefore, agree that they will, at all times, act in good faith, and make all attempts to resolve all differences howsoever arising out of or in connection with this Agreement by discussion failing which, fifteen (15) days of the commencement of the discussions, by arbitration.

The Parties shall be bound to submit all disputes and differences howsoever arising out of and in connection with this Agreement to arbitration in accordance with the Arbitration and Conciliation Act,

1996, provided that: 13.2.1.There shall be one arbitrator nominated jointly by the Parties, failing which there shall be three (3) arbitrators, one each nominated by the Company and Employee and the other chosen by the two (2) arbitrators so nominated shall be persons of professional repute and who are not directly or indirectly connected with the parties) whose appointment shall be agreed between the parties within seven (7) days of the service of an arbitration notice;

The Parties agree that until the arbitration proceedings are complete, they shall not take their disputes to a court of law. All hearings shall be held in Punjab, India.

Notwithstanding anything contained in this Agreement the Company may approach any court within India for injunctive relief when it feels that any of the terms of this Agreement are breached or likely to be breached by the Employee.

## 14. MISCELLANEOUS

Entire Agreement: This Agreement constitutes the entire agreement between the signatories and shall supersede all negotiations, preliminary agreements, and all prior and contemporaneous discussions and understandings of the signatory's connection with the subject matter hereof.

Amendments: No change, modification, or termination of any of the terms, provisions or conditions of this Agreement shall be effective unless made in writing and signed or initialed by all signatories to this Agreement.

Severability: If any paragraph, subparagraph, or provision of this Agreement, or the application of such paragraph, sub- paragraph, or provision, is held invalid by a court of competent jurisdiction, the remainder of this Agreement and the application of such paragraph, sub-paragraph, or provision to persons, or circumstances other than those with respect to which it is held invalid shall not be affected.

Parties To Act With Due Diligence And In Good Faith: The Parties hereto shall dutifully perform all covenants of this Agreement in letter and spirit and shall otherwise act with due diligence and in good faith.

## 15. GOVERNING LAW AND JURISDICTION

This Agreement shall, in all respects, be governed by and construed in all respects in accordance with the laws of India.

In relation to any legal action or proceeding to enforce this Agreement, the Employee irrevocably. Submits to the exclusive jurisdiction of any competent court and waives any objection to such proceeding son grounds of venue or on the grounds that the proceedings have been brought in an inconvenient forum.

**IN WITNESS WHERE OF**, the signatories have executed this Employment Agreement as the day and year firstabove written.

**For Company Name**
For Young Createch Private Limited

Director

Name: CHARANDEEP SINGH
Title: DIRECTOR

**Candidate Name**

Name: AAHANA
Title: HR INTERN

## ANNEXURE-1

## SCOPE OF SERVICES

The Employee of the Company shall be bound by this Agreement to fulfill the following services for the Company:

**Title**: HR INTERN

### Responsibilities & Duties:

- Develop new HR policies and update the existing ones based on the company's values and ensure
- employees adhere to and comply with them.
- Preparing offer letters, Joining, Increment, Promotion, Experience letter, Relieving
- letter, Termination, etc.
- Coordinating Events, Birthday Parties, etc.
- Making attendance Sheets, Office Expenses, Bills.
- Maintaining record of all employees and Time management and Interview Sheets.
- Conducting Interviews, Short list the candidates, Skype interviews, etc.
- Interviewed potential hires, negotiated salaries and benefits and performed reference checks.

## ANNEXURE-2

## COMPENSATION LETTER

**The Employee shall be entitled to receive compensation in accordance with the terms set forth in this Compensation Letter for any and all the services of every nature rendered and to be rendered by the Employee in connection with his employment with the Company as laid down in this Agreement in India. The Employee shall be bound by the terms and conditions set forth in this Agreement.**

| YOUNG CREATECH PRIVATE LIMITED | | | |
|---|---|---|---|
| CTC Breakup | | | |
| **Name of Employee:** | AAHANA | | |
| **Designation** | HR INTERN | | |
| **Date of Joining:** | 10 JANUARY 2024 | | |
| **Sr. No.** | **Particulars** | **Monthly** | **6 MONTHS** |
| 1 | Basic Salary | 3000 | 18000 |
| 2 | House Rent Allowance | 1500 | 9000 |
| 3 | Conveyance Allowance | 1000 | 6000 |
| 4 | Medical | 0 | 0 |
| 5 | LTA | 0 | 0 |
| 6 | Special allowance | 700 | 4200 |
| **CTC** | | | |
| | | 6200 | 37200 |
| **DEDUCTIONS** | | | |
| 7 | Profession Tax | 200 | 1200 |
| **GROSS SALARY** | | | |
| | | 6000 | 36000 |

# CERTIFICATE

*OF COMPLETION*

This certificate is awarded to

## KARAN ARYAN

*For taking time to impart his/her valuable insights and constructive*

*change to Finance Internship at ONE'S OWN FINANCER*

***DATED FROM : 18/01/2024 TO 18/03/2024***

Sapna Negi

**SAPNA NEGI**

**HR HEAD**

Kartikey Sharma

**KARTIKEY SHARMA**

**COURSE COORDINATOR**

**REF. NO.** **OOF/KG(1801)18-01-2024/90**

कृषि सहकारी
कर्मचारी प्रशिक्षण संस्थान
सांगटी, समर हिल, शिमला - 171 005
टेलीफोन : 0177 - 2830561 2831780 फैक्स : 2830561
ई-मेल : acstishimla@yahoo.in

hpscb
(Scheduled Bank)

AGRICULTURE COOPERATIVE
STAFF TRAINING INSTITUTE (ACSTI)
Sangti, Summer Hill, Shimla – 171 005
Phone : 0177 – 2830561 2831780 Fax : 2830561
E-Mail : acstishimla@yahoo.in

Ref.No.: HP.ACSTI / SML / 184 / 1408 / 2023-24 Dated: 16.03.2024

# TO WHOM IT MAY CONCERN

It is certified that **Mr. Kushal Khagta,** VPO Gianh, Tehsil Nerwa, Shimla (HP) has successfully completed the Summer Training of 02 months on "**Comparative Financial Analysis of the H.P. State Cooperative Bank Ltd.- B.O. Summerhill, and B.O. HP Sectt.**" at Agriculture Cooperative Staff Training Institute (ACSTI) of the H.P. State Cooperative Bank Ltd.

For Principal

दि हिमाचल प्रदेश राज्य सहकारी बैंक मर्यादित
दि माल, शिमला - 171 001 (हिमाचल प्रदेश)
टेलीफोन : 0177 – 2804490, 91, 92 फैक्स : 2809991, 93
ई-मेल : info@hpscb.com

THE HIMACHAL PRADESH STATE COOPERATIVE BANK LTD.
The Mall, SHIMLA – 171 001 (Himachal Pradesh)
Phone : 0177 – 2804490, 91, 92 Fax : 2809991, 93
E-Mail : info@hpscb.com

एसजेवीएन लिमिटेड
SJVN Limited
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

SJVN/CHQ/HR/HRD/115/1724

21.03.2024

## To Whom So Ever It May Concern

*This is to certify that Mr. Manav Sehgal, student of MBA (HR), Himachal Pradesh University Business School/ HPU, Summer Hill has undergone Industrial Training in SJVN Limited w.e.f. 01.01.2024 to 29.02.2024. During the training period, he was deputed in HR Department, Corporate Headquarter SJVN, Shimla, wherein he has carried out a project work on "HR Structure of SJVN." He has successfully completed the same and submitted a report to this effect, which was evaluated and found to be Excellent.*

*During this period he was found sincere and industrious.*

*We wish him bright future and success in life.*

21/3/24

***(Dr. Vandana Bagharia Sehgal)***
***Sr.Manager (HR)***
***Corporate Training & HRD***

**कारपोरेट मुख्यालय** : शक्ति सदन, शनान,
शिमला–171006 (हि.प्र.) ***www.sjvn.nic.in***
**शीघ्रकरण कार्यालय** : एनबीसीसी कॉम्पलेक्स, टॉवर–1,
6वीं मंजिल, पूर्वी किदवई नगर, नई दिल्ली–110023
दूरभाष: 011–61901919 फैक्स: 011–61901915

**Corporate H.Q.** : Shakti Sadan, Shanan,
Shimla-171006, (H.P.) ***www.sjvn.nic.in***
**Expediting Office** : NBCC Complex, Tower-1,
(6th Floor), East Kidwai Nagar, New Delhi-110023
Tele: 011-61901919, Fax: 011-61901915

**अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।**

**SAVE ENERGY FOR BENEFIT OF SELF AND NATION**

कृषि सहकारी
कर्मचारी प्रशिक्षण संस्थान
सांगटी, समर हिल, शिमला - 171 005
टेलीफोन 0177 - 2830561 2831780 फैक्स 2830561
ई-मेल acstishimla@yahoo.in

hpscb
(Scheduled Bank)

AGRICULTURE COOPERATIVE
STAFF TRAINING INSTITUTE (ACSTI)
Sangti, Summer Hill, Shimla – 171 005
Phone : 0177 – 2830561 2831780 Fax : 2830561
E-Mail : acstishimla@yahoo.in

Ref.No.: HP.ACSTI / SML / 184 /1409 / 2023-24 Dated: 16.03.2024

# TO WHOM IT MAY CONCERN

It is certified that **Mr. Manish Sharma,** Tara Niwas, Sanjauli, Shimla (HP) has successfully completed the Summer Training of 02 months on "**Comparative Financial Analysis of the H.P. State Cooperative Bank Ltd.- B.O. Sanjauli, and B.O. Dhalli**" at Agriculture Cooperative Staff Training Institute (ACSTI) of the H.P. State Cooperative Bank Ltd.

For Principal

दि हिमाचल प्रदेश राज्य सहकारी बैंक मर्यादित
दि माल, शिमला - 171 001 (हिमाचल प्रदेश)
टेलीफोन 0177 – 2804490, 91, 92 फैक्स 2809991, 93
ई-मेल info@hpscb.com

THE HIMACHAL PRADESH STATE COOPERATIVE BANK LTD.
The Mall, SHIMLA – 171 001 (Himachal Pradesh)
Phone : 0177 – 2804490, 91, 92 Fax : 2809991, 93
E-Mail : info@hpscb.com

कृषि सहकारी
कर्मचारी प्रशिक्षण संस्थान
सांगटी, समर हिल, शिमला - 171 005
टेलीफैक्स 0177 - 2830561 2831780 फैक्स 2830561
ई-मेल acstishimla@yahoo.in

hpscb
(Scheduled Bank)

AGRICULTURE COOPERATIVE
STAFF TRAINING INSTITUTE (ACSTI)
Sangti, Summer Hill, Shimla - 171 005
Phone : 0177 - 2830561 2831780 Fax : 2830561
E-Mail : acstishimla@yahoo.in

Ref.No.: HP.ACSTI / SML / 184 / 1415 / 2023-24 Dated: 20.03.2024

# TO WHOM IT MAY CONCERN

It is certified that **Ms. Manisha Chauhan,** D/O Sh. Bikram Singh, VPO Nauhli Tehsil J/nagar, Mandi (HP) has successfully completed the Summer Training of 02 months on "**Financial Performance Analysis of the H.P. State Cooperative Bank Ltd.- A Comparative Study of B.O. Bus Stand Shimla, B.O. Khalini**" at Agriculture Cooperative Staff Training Institute (ACSTI) of the H.P. State Cooperative Bank Ltd.

For Principal

हि. हिमाचल प्रदेश राज्य सहकारी बैंक लमीटिड
दि माल, शिमला - 171 001 (हिमाचल प्रदेश)
टेलीफैक्स 0177 - 2804901, 91, 92 फैक्स 2809991, 93
ई-मेल info@hpscb.com

THE HIMACHAL PRADESH STATE COOPERATIVE BANK LTD.
The Mall, SHIMLA - 171 001 (Himachal Pradesh)
Phone : 0177 - 2804901, 91, 92 Fax : 2809991, 93
E-Mail : info@hpscb.com

एसजेवीएन
SJVN

# Certificate of

# TRAINING COMPLETION

SR No. : 283

*This is to certify that Mr./Ms.* MANISHA SHARMA

*S/o D/o Sh.* RAJINDER KUMAR, *student of* MBA (HR) *from*

HIMACHAL PRADESH UNIVERSITY, SHIMLA *has undergone industrial training in*

*SJVN Limited at "Nathpa Jhakri Hydro Power Station - 1500 MW" – Jhakri w.e.f.* 08/01/2024 *to*

02/03/2024.

*Mr./Ms.* MANISHA SHARMA *has completed his/her training successfully. We wish all success and bright future in his/her career.*

*No. :* 6380

*Date :* 02/03/2024

*Place :* JHAKRI

02/03/24

*Authorized Signatory*
प्रबन्धक
मानव संसाधन विभाग
एन. जे. एच. पी. एस. झाकड़ी

*Seal*

एसजेवीएन
SJVN

# Certificate of
# TRAINING COMPLETION

SR No. : 281

This is to certify that Mr./Ms. MOHIT CHAUHAN

S/o D/o Sh. SURENDER SINGH CHAUHAN, student of MBA (HR) from HIMACHAL PRADESH UNIVERSITY, SHIMLA has undergone industrial training in SJVN Limited at "Nathpa Jhakri Hydro Power Station - 1500 MW" – Jhakri w.e.f. 04/01/2024 to 29/02/2024.

Mr./Ms. MOHIT CHAUHAN has completed his/her training successfully. We wish all success and bright future in his/her career.

No. : 6362

Date : 01/03/2024

Place : JHAKRI

01/03/24

Authorized Signatory

प्रबन्धक
मानव संसाधन विभाग
एन. जे. एच. पी. एस. झाकड़ी

Seal

Himachal Pradesh Power Corporation Limited
(A State Government Undertaking)
Himfed Building, BCS, New Shimla - 171009 H.P.
Phones : 0177-2670633, 0177-2671589
CIN : U40101HP2006SGC030591

No. HPPCL/P&A/ Vocational Training /2023/Vol-X-20447 Dated: 23/02/2024

## To Whom It May Concern

It is certified that **Mr. Mohit Kashyap,** Student of **MBA (Finance)** Course at H.P.U. Business School, Summer Hill, Shimla, H.P. has successfully completed his eight weeks Industrial Training in HPPCL w.e.f. **04th January 2024 to 23rd February 2024** in the **O/o AGM (Finance) HPPCL, Corporate Office, BCS, New Shimla, Shimla-171009**. During the training period in HPPCL, the candidate was found honest, obedient and hard working.

The training was imparted on the recommendations of **Dr. Rajesh Kumar, Training & Placement Coordinator, H.P.U. Business School, Summer Hill, Shimla, H.P.** in partial fulfillment of ""**Master of Business Administration**".

**I wish him all the success in future strides.**

23/2/2024

**Sr.Manager (Training)**
**Corporate Office, HPPCL,**
**BCS, New Shimla-9**

**Mr. Mohit Kashyap,**
**MBA (Finance)**
**H.P.U. Business School,**
**Summer Hill, Shimla (H.P.)**

एसजेवीएन लिमिटेड
SJVN Limited
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

SJVN/CHQ/HR/HRD/115/1716 18.03.2024

## To Whom So Ever It May Concern

*This is to certify that Mr. Abhishek Sharma, student of MBA (HR), Himachal Pradesh University Business School/HPU, Summer Hill has undergone Industrial Training in SJVN Limited w.e.f. 01.01.2024 to 29.02.2024. During the training period, he was deputed in HR Department, Corporate Headquarter SJVN, Shimla, wherein he has carried out his Industrial Training. He has successfully completed the internship, which was found to be Excellent.*

*During this period he was found sincere and industrious.*

*We wish him bright future and success in life.*

18/3/24

***(Dr. Vandana Bagharia Sehgal)***
***Sr.Manager (HR)***
***Corporate Training & HRD***

Corporate H.Q. : Shakti Sadan, Shanan,
Shimla-171006, (H.P.) www.sjvn.nic.in
Expediting Office : NBCC Complex, Tower-1,
(4th Floor), East Kidwai Nagar, New Delhi-110023
Tele: 011-61901919, Fax: 011-61901915

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

एसजेवीएन
SJVN

# Certificate of
# TRAINING COMPLETION

SR No. : 280

This is to certify that Mr./Ms. MUNISH SHARMA

S/o D/o Sh. SATISH KUMAR SHARMA, student of MBA (HR) from HIMACHAL PRADESH UNIVERSITY, SHIMLA has undergone industrial training in SJVN Limited at "Nathpa Jhakri Hydro Power Station - 1500 MW" – Jhakri w.e.f. 04/01/2024 to 29/02/2024.

Mr./Ms. MUNISH SHARMA has completed his/her training successfully. We wish all success and bright future in his/her career.

No. : 6363

Date : 01/03/2024

Place : JHAKRI

01/03/24

Authorized Signatory

प्रबन्धक
मानव संसाधन विभाग
एन. जे. एच.पी.एस. झाकड़ी

Ananta Vyom Consultants

**TO WHOM IT MAY CONCERN**

This is to certify that Mr.Naveen has successfully completed his internship from January 01st 2024 to February 15th 2024 with our Organization in the capacity of Intern TA – HR. During the internship , he has been involved in Recruitment of the candidates , following the entire recruitment cycle, maintaining of database , submission of the reports and other Talent Acquisition activities.

All the work assigned to him has been upto the satisfactory level and he has shown tremendous growth during the internship with us.

He has been always dedicated to the work and adhered to the deadlines.

During the tenure with us , we found him hardworking , sincere and keen learner.

Here's wishing him all the best for future endeavours .

For **Ananta Vyom Consultants**

Himpriya Sharma

Dated : 15-02-2024

Happy Home, New Totu, Shimla-171011 ( HP) ; Email: anantavyomconsultants@gmail.com
Mob: 9418028207, 8626858207,9459623897

एसजेवीएन
SJVN

# Certificate of
# TRAINING COMPLETION

SR No. : 284

This is to certify that Mr./Ms. Nikhil Thaper

S/o D/o Sh. Virender Thaper, student of MBA (HR) from Himachal Pradesh University, Shimla has undergone industrial training in SJVN Limited at "Nathpa Jhakri Hydro Power Station - 1500 MW" – Jhakri w.e.f. 08/01/2024 to 03/03/2024.

Mr./Ms. Nikhil Thaper has completed his/her training successfully. We wish all success and bright future in his/her career.

No. : 6394

Date : 04/03/2024

Place : Jhakri

Authorized Signatory
वरि० प्रबन्धक (मा.सं.)
मानव संसाधन विभाग,
एनजेएचपीएस झाकड़ी
Seal

# The Kangra Central Co-op. Bank Ltd.,

Branch Office : Lubh 176023 Distt. Kangra (HP)

**Ref No:-**

**Date 11.03.2024**

" To Whomsoever it may concern"

Certified that Mr. Nikhil Guleria S/O Sh. Sachdev Pal Singh R/O Village Har P.O Har Tehsil Jawali Distt Kangra H.P who was deputed to this branch for Job training of MBA from H.P University Shimla & vide H.O letter no Estt. F 14303 dated 06.01.2024 has complete his training successfully w.e.f 8th January,2024 to 8th March 2024. During training his behavior towards the customer and staff was found very cordial.

I wish him good health & success in future.

The Kangra Central Co-op. Bank Ltd.
Branch Manager
Sr. Branch Manager
B.O. LUBH-156

Aggarwal
STEEL INDUSTRIES PVT. LTD.

**Aggarwal Steel Industries Pvt. LTD**
Patch No. I & II, Phase II, Industrial Area,
Gwalthai, Distt. Bilaspur (H.P.)-174 201
E-mail : info.aggarwalsteelindustries@gmail.com
GSTIN : 02AAUCA1280B1Z4

# INTERNSHIP CERTIFICATE

ASIPL/HRD/2023-24/72 Dated:- 31.03.2024

**To whom it may concern**

This is certified that Mr. Nikhil Bhardwaj Student of MBA (Finance) of H.P. University Shimla, has successfully completed the internship in the field of Finance at Aggarwal Steel Industries Pvt. Ltd. started form 1st January, 2024 until 31st March, 2024 under the guidance of Mr. Baldev Raj ( Sr. Accountant ).

During the period of his internship program with us he had been exposed to different process was found punctual, hardworking and inquisitive.
We wish him every success in his life and career .

Sincerely,

For **Aggarwal Steel Industries Pvt. Ltd.**

For Aggarwal Steel Industries Pvt. Ltd.

Authorised Signatory

**Manager ( HR)**

एसजेवीएन लिमिटेड
SJVN Limited
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

SJVN/CHQ/HR/HRD/115/1665 07.03.2024

## To Whom So Ever It May Concern

*This is to certify that Mr. Anuj Sood, student of MBA (HR), Himachal Pradesh University Business School, Himachal Pradesh University, Shimla (HP) has undergone Industrial Training in SJVN Limited w.e.f. 08.01.2024 to 07.03.2024. During the training period, he was deputed in Human Resource Department, Corporate Headquarters, SJVN, Shimla, wherein he has carried out a project work on HR Structure in SJVN". He has successfully completed the same and submitted a report to this effect, which was evaluated and found to be Excellent.*

*During this period he was found sincere and industrious.*

*We wish him bright future and success in life.*

7/3/24

***Dr. Vandana Bagharia Sehgal)***
***Sr. Manager (HR)***
***Corporate Training & HRD***



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The Kangra Central Co-op. Bank Ltd.
H.O. Civil Line, Dharamshala,
Distt. Kangra (H.P.) 176215

कांगड़ा केन्द्रीय सहकारी बैंक सीमित
मु. का. सिविल लाईन, धर्मशाला,
जिला कांगड़ा (हि.प्र.) 176215

Ref. No. Marketing...

Date 22.02.2024

**To Whomsoever It May Concern**

This is to certify that Sh. Arsh Mahajan S/O Sh. Anup Mahajan R/O 133/7 Depot Bazar Dharamsala Distt. Kangra H.P., a student of MBA Semester III in H.P. U. B.S. Shimla Roll No.36220010030 has completed his Training w.e.f.08/01/2024 To 21/02/2024.

He has gained vast practical knowledge on Practical Banking and has completed the said training successfully. We wish him and his institution all the best for a bright future ahead.

Assistant General Manager.
Marketing

Tel. 01892-222677, 224969, 223280 Fax. 222386, 225600, 222326 PBX 222353, 223237, 227688, 222269
दूरभाष 01892-222677, 224969, 223280 फैक्स 222386, 225600, 222326 पी.बी.एक्स 222353, 223237, 227688, 222269 www.kccb.in

adani
Cement

March 15, 2024

## "TO WHOM SO EVER IT MAY CONCERN"

This is to certify that Mr. Ashwani Thakur S/o Shri Ram Lal student of MBA - Finance from Himachal Pradesh University of Business School, Shimla (HP) has successfully completed his training for Eight Weeks from 02-01-2024 to 29-02-2029 at ACC Limited, Gagal Cement Works, Barmana Distt. Bilaspur [H.P].

He has successfully completed his training without stipend. We wish him good luck for future endeavor.

**MANAGER – HR**
**GAGAL CEMENT WORK**

Manager - HR
Gagal Cement Works

**ACC Limited**
Gagal Cement Works
VPO Barmana, Tehsil Sadar
Distt. Bilaspur 174 013
Himachal Pradesh, India

www.acclimited.com

CIN: L26940MH1936PLC002515

**Registered Office:** Cement House, 121, Maharshi Karve Road, Mumbai 400 020, Maharashtra, India

भारतीय खाद्य निगम
Food Corporation of India
Regional Office, Himachal Pradesh

दिनांक:-#ApprovedDate#

## प्रमाण पत्र/ Certificate

प्रमाणित किया जाता है कि सुश्री आस्था शर्मा,एम.बी.ए छात्रा, हिमाचल प्रदेश युनिवर्सिटी बिज़नेस स्कूल, समरहिल, शिमला ने दिनांक 08.01.2024 से 08.03.2024 तक भारतीय खाद्य निगम, क्षेत्रीय कार्यालय, शिमला, हिमाचल प्रदेश में सफलतापूर्वक इंटर्नशिप/ प्रशिक्षण पूर्ण किया है ।

निगम उनके उज्ज्वल भविष्य की कामना करता है ।

It is certified that Ms. Astha Sharma, MBA student of Himachal Pradesh University Business School, Summerhill, Shimla has successfully completed Internship/ Training from 08.01.2024 to 08.03.2024 at Food Corporation of India, Regional Office Shimla, H.P.

The Corporation wishes her a bright future.

**Signed by Sanoj Kumar**
**Date: 13-03-2024 14:45:13**

(Sanoj Kumar/ सनोज कुमार)
Asstt. Genl. Manager (Personnel) /
सहा. महाप्रबंधक (कार्मिक)

Lane 1, Sector 2, Opp. Community center, New Shimla 171009, India
Phone no: 0177-2672906 | Email: srmhp.fci@gov.in, gmhp.fci@gov.in

# यूको बैंक
( भारत सरकार का उपक्रम )

# UCO BANK
(A Govt. of India Undertaking)

सम्मान आपके विश्वास का

Honours Your Trust

Branch Office Chakkar, Shimla (2184)

शाखा कार्यालय चक्कर, शिमला - (2184)

Ref. No./संदर्भ संख्या : BO/Chakkar/ 114

Date /दिनाँक:

This is to certify that Mr. Jayotirmay sharma S/o Naresh Sharma has completed internship in our branch UCO Bank Chakkar Shimla from 10.01.2024 to 02.03.2024 with our entire certification.

During his working period we found him a sincere, honest, hardworking, dedicated employee with professional attitude and very good job knowledge. He is amiable in nature and character as well.

We value his contribution to UCO Bank Chakkar Shimla and wish him all the best for his future.

यूको बैंक चक्कर UCO Bank Chakkar 2184 SHIMLA शिमला

Manager
Uco bank
Chakkar Shimla

March 19th, 2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Avinash Kumar,** a bonafide student of Himachal Pradesh University Business School, has completed his Internship Project on **"Market Research"** from 3rd January 2024 to 17th Feb 2024 in Una under the guidance of **Mr. Amit Sharma.**

His conduct was found satisfactory, and we wish him all the best for future endeavors.

**Yours Sincerely,**
**For ULTRATECH CEMENT LIMITED,**
**CEMENT MARKETING DIVISION**

**NAVNEET CHAUHAN**
**REGIONAL-HR**
**PUNJAB, J&K and HP**
**CMD, BPD & RMC DIVISION**

UltraTech Cement Limited
(Cement Business - Marketing)
Adarsh Lifestyle Mall, (Near Passport Ofice), Plot No. 50, Fifth Floor, Industrial Area, Phase-2, Ramdarbar, Chandigarh - 160002
Tel.: 0172-5046281 | W: www.ultratechcement.com
Registered Office: 'B' Wing, Ahura Centre, 2nd Floor, Mahakali Caves Road, Andheri (East), Mumbai 400 093, India
T: +91 22 6691 7800 / 6691 7801 | CIN: L26940MH2000PLC128420

CAREERS 360

**CERTIFICATE OF INTERNSHIP**

This is to certify that **Bhupender Singh** has successfully completed work from home internship, from **23rd December 2023 to 23rd February 2024**. He/she was involved in the Job Training in the **"Marketing"** department as an ***"Intern".***

The program provided a unique platform to enhance his/her leadership, networking, communication & marketing skills.

We wish him/her all the best for future endeavours.

**Dated:** 11th March 2024

**Mona Narula**
**Product Operation Manager**

Ananta Vyom Consultants

**TO WHOM IT MAY CONCERN**

This is to certify that Mr.Gurneet Singh has successfully completed his internship from January 01st 2024 to February 15th 2024 with our Organization in the capacity of Intern TA – HR. During the internship , he has been involved in Recruitment of the candidates , following the entire recruitment cycle, maintaining of database , submission of the reports and other Talent Acquisition activities.

All the work assigned to him has been upto the satisfactory level and he has shown tremendous growth during the internship with us.

He has been always dedicated to the work and adhered to the deadlines.

During the tenure with us , we found him hardworking , sincere and keen learner.

Here's wishing him all the best for future endeavours .

For **Ananta Vyom Consultants**



Himpriya Sharma

Dated : 15-02-2024

Happy Home, New Totu, Shimla-171011 ( HP) ; Email: anantavyomconsultants@gmail.com
Mob: 9418028207, 8626858207,9459623897

RAKESH R S GARG & CO
CHARTERED ACCOUNTANTS

33/35, Gali No 7, Middle Bazar,
Opp. Canara Bank, Shimla, H.P. 171001
0177-3500557, 9418318830
shimla@rsgarg.co.in

# CERTIFICATE OF COMPLETION

This certificate is awarded to ***Ms. Himanshi Sharma*** in appreciation for her successful work as an intern at Rakesh R S Garg & Co.

She has completed her internship under the guidance of CA Suyash Singh Verma.

**Internship Duration:** 1st January,2024 to 29th February 2024.

During the period of her internship program with us, she is found to be hardworking, sincere and diligent.

We hereby certify that her work is satisfactory to the best of my knowledge.

We wish her all the best for the future.

For **RAKESH R S GARG & CO**

RAKESH R S GARG & CO. CHARTERED ACCOUNTANTS FRN. 021408N

CA Suyash Singh Verma
MRN 571120

Date: 01/03/2024
Place: Shimla

दि बघाट अर्बन को॰ओप॰ बैंक लिमिटेड
मुख्य कार्यालय: बघाट बैंक परिसर,
राजगढ़ रोड़, सोलन – 173 212 (हि.प्र.)
दूरभाष: 0192 – 223 076, 226286, 226103
फैक्स: 01792 – 223 076, 224886
ई–मेल: info@baghatbank.com
वेबसाइट: www.baghatbank.com

The Baghat Urban Co-op. Bank Ltd.
H.O. : Baghat Bank Parisar, Rajgarh Road, Solan - 173212 (H.P.)
Ph. No. : 01792-223076, 226286, 226103
Fax: 01792-223076, 224886
E-mail: info@baghatbank.com
Web. : www.baghatbank.com

BUCB/H.O./4523 /2023-24

07th March 2024

## TO WHOM IT MAY CONCERN

This is to certify that **Mr. Lakhan Thakur S/o Sh. Dinesh Kumar** Student of **MBA-IIIRD** Semester sponsored by **HIMACHAL PRADESH UNIVERSITY BUSINESS SCHOOL(HPUBS) SUMMER-HILL,SHIMLA ,** has carried out **56 DAYS** Banking Training from **9th January, 2024 to 22nd February, 2024** with an extension period of 11 days from **February 23, 2024, to March 4, 2024.**

During his training period he was found hard working and punctual student and showed a keen interest in banking.

MANAGING DIRECTOR

Escorts Kubota Limited

15th March 2024

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Puneet Sharma, has undergone practical training from **15 January 2024** to **15 March 2024** in **Escorts Kubota Limited Construction Equipment in International Sales Department.**

During his project training with us, he showed keen interest and completed his internship under the guidance of **Mr. Vikas Dave.**

His performance during the said training was very good. He has been sincere, methodical, and proactive in the execution of the project.

We wish him all success in future endeavors.

**For Escorts Kubota Limited**

**Abhilasha**
**HR Business Partner**

FUJIKAWA
POWER

**Ref: OFPPL/HR/April-24** **Date 06.04.2024**

# Certificate of Completion of Internship

## To Whom It May Concern

This is to certify that Mr. **Shivanshu Sharma**, an MBA student from Himachal Pradesh University Business School, Summer Hill, Shimla, Himachal Pradesh 171005, has successfully completed a 3-months internship with our organization from January 8, 2024, to April 6, 2024.

During his tenure with us, he exhibited commendable conduct. He consistently demonstrated sincerity and diligence in his work. His friendly demeanor contributed positively to the work environment.

We commend Mr. Shivanshu Sharma for his hard work and dedication throughout his internship. On behalf of our organization, I extend our best wishes to him for all his future endeavors.

For **Okaya Fujikawa Power Pvt. Ltd**

FOR OKAYA FUJIKAWA POWER PRIVATE LIMITED
Manager HR

(Manager HR)

**OKAYA FUJIKAWA POWER PVT. LTD.**
**REGD. OFFICE** : H-19, Udyog Nagar, Rohtak Road, New Delhi - 110 041, India.
vp.fbcl@okayapowerltd.com +91 11 47451500
CIN: U31109DL2022PTC397158

young createch Pvt. Ltd.

# CERTIFICATE
## OF TRAINING

To Whom It May Concern

**Atul Koundal**

participated and successfully completed the training in BDE (Business Development Executive)
From 15th Jan, 2024 to 30th Mar, 2024.
During the period of his training program with us, he had been exposed to different processes and was found diligent, hardworking and inquisitive.
We wish him all the best for future endeavor.

BDE
TRAINING

30 MARCH 2024
DATE

For Young Createch Private Limited
Director
MANAGING DIRECTOR

एसजेवीएन लिमिटेड
SJVN Limited
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उद्यम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

SJVN/CHQ/HR/HRD/115/1675

11.03.2024

# To Whom So Ever It May Concern

*This is to certify that Mr. Atul Kumar, student of MBA (Finance), Himachal Pradesh University Business School, Himachal Pradesh University, Shimla (HP) has undergone Industrial Training in SJVN Limited w.e.f. 01.01.2024 to 29.02.2024. During the training period, he was deputed in Finance Department, Corporate Headquarters, SJVN, Shimla, wherein he has carried out a project work on "Financial Analysis". He has successfully completed the same and submitted a report to this effect, which was evaluated and found to be Excellent.*

*During this period he was found sincere and industrious.*

*We wish him bright future and success in life.*

11/3/24

***Dr. Vandana Bagharia Sehgal)***
***Sr. Manager (HR)***
***Corporate Training & HRD***

कारपोरेट मुख्यालय शक्ति सदन शानन
शिमला-171006 (हि.प्र.) www.sjvn.nic.in
समन्वयन कार्यालय एनबीसीसी कॉम्प्लेक्स, टॉवर-1
ईस्ट किदवई नगर, नई दिल्ली-110023
दूरभाष 011-61901915 फैक्स 011-61901915

Corporate H.Q. : Shakti Sadan, Shanan,
Shimla-171006. (H.P.) www.sjvn.nic.in
Expediting Office : NBCC Complex, Tower-1,
(6th Floor), East Kidwai Nagar, New Delhi-110023
Tele. 011-61901919, Fax: 011-61901915

अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

ThinkNEXT Technologies Private Limited

ThinkNEXT™

Innovation at every step...

ISO 9001:2015 Certified Company

Scan and verify your Certificate

Certificate ID:645060

*Ref.No. TNT/C-24/12606*

Iconic Business Summit AWARDS WINNER 2021

Nation's Business Pride AWARDS WINNER 2021

National Gratitude AWARDS WINNER 2020

Asia's Quality & Entreprenuership AWARDS WINNER 2019

Business Leaders AWARDS WINNER 2019

NATIONAL ICON AWARDS WINNER 2018

# Certificate

Certificate of Excellence

This Certificate do hereby recognizes that

*Bhushan S/o Ashok Kumar*

has successfully completed Industrial Training Program from

*08th January 2024* to *08th March 2024*

in *Digital Marketing* Grade *A*

ISO Certified

Member of Confederation of Indian Industry

ISTQB International Software Testing Qualifications Board Affiliated

For ThinkNEXT Technologies Pvt. Ltd.

Authorised Signatory

Member Training Division

ThinkNEXT Technologies Pvt. Ltd.

Director

Director

Corporate Office: S.C.F 113, Phase XI, Mohali (Punjab)

A Outstanding 100-90% | B Excellent 89-80% | C Very Good 79-70% | D Good 69-60% | E Satisfactory 59-50%

# TRAINING INTERNSHIP CERTIFICATE

This is to certify that

Mr./Ms. Gaurav Sandal

has successfully completed her/his internship in Digital marketing

from Jan - 24 to March - 26 . During this period the

student was found to be dedicated, determined and hardworking.



Chaila Rohit

DocuSign Envelope ID: 05E08951-58EA-4F95-9B27-AE58605D2ACA

Ylytic

**Ylytic Technologies Pvt. Ltd.**
C 602, Nandan Spectra,
Balewadi, Pune, 411045
CIN: U72502PN2022PTC210533

1st April 2024

# Certificate of Internship

This is to certify that **Mr. Hardik Mittal** has completed an internship as a '**Business Development – Intern'** with Ylytic Technologies **from 8th January '24** to **31st March'24.**

His conduct was professional, and we wish him the best for future.

DocuSigned by:
Mradul Sharma
53CDA429FA334D4...

Mradul Sharma
Director

DECATHLON

SPORT FOR ALL - ALL FOR SPORT

Date :23-03-2024

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. ____TIKAM RAM____ has completed internship at Decathlon Sports India Pvt Ltd, Bihar from 21-01-2024 to 23-03-2024 on "**MANAGEMENT**" under the guidance of ____KUMAR SAURAV____.

During the period of his internship programme with us, we found he was punctual, hardworking and inquisitive.

We wish him all the very best for his future endeavours.

DSI CITY CENTRE
Plot Nos. 157, 158, 159 (Part), 160, 161, 162 & 60, (Part), within Ward No. 17, Moholla – Lodipur, Mouza – Arhara, Thana No. 20, Thana, Code – 252 at Budhamarg, Lodipur, Opposite- Lodipur Fire Station, Patna , City Centre Patna – Unit No: D0301 & D0302, [illegible] Station – Buddha Colony, Bihar – 800 001.

**For Decathlon Sports India Pvt Ltd**

**Authorised Signatory**

Kumar Saurav

कृषि सहकारी
कर्मचारी प्रशिक्षण संस्थान
सांगटी, समर हिल, शिमला - 171 005
टेलीफोन : 0177 - 2830581 2831780 फैक्स : 2830581
ई-मेल : acstishimla@yahoo.in

hpscb
(Scheduled Bank)

AGRICULTURE COOPERATIVE
STAFF TRAINING INSTITUTE (ACSTI)
Sangti, Summer Hill, Shimla – 171 005
Phone : 0177 - 2830581 2831780 Fax : 2830581
E-Mail : acstishimla@yahoo.in

Ref.No.: HP.ACSTI / SML / 184 / 1440 / 2023-24 Dated: 30.03.2024

# TO WHOM IT MAY CONCERN

It is certified that **Mr. Chetan Chauhan**, Vill. Padhru P.O. Baggi, Teh. Balh Mandi (HP) has successfully completed the Summer Training of 12 weeks on "**Marketing of Banking Products & Services - A Case Study of H.P. State Cooperative Bank Ltd. of District Office Mandi-II at Sundernagar**" at Agriculture Cooperative Staff Training Institute (ACSTI) of the H.P. State Cooperative Bank Ltd.

SRThakur
(Sita Ram Thakur)
Principal

दि हिमाचल प्रदेश राज्य सहकारी बैंक मर्यादित
दि माल, शिमला - 171 001 (हिमाचल प्रदेश)
टेलीफोन : 0177 – 2804490, 91, 92 फैक्स : 2809991, 93
ई-मेल : info@hpscb.com

THE HIMACHAL PRADESH STATE COOPERATIVE BANK LTD.
The Mall, SHIMLA – 171 001 (Himachal Pradesh)
Phone : 0177 – 2804490, 91, 92 Fax : 2809991, 93
E-Mail : info@hpscb.com

ACME GROUP

Date : 15th March' 2024

## TO WHOMSOEVER IT MAY CONCERN

This is to Certify that **Ms. Diksha**, has completed an Internship with **ACME Finvest Private Limited** into Wealth Management from 18th January' 2024 to 15th March' 2024.

During her tenure of Internship **Ms. Diksha** observed to be enthusiast and determined to new learnings, also maintained professional demeanor and showcased good moral character throughout.

Her interest into Financial Research and various Assets of Welath Management is prise worthy.

Wishing her good wishes for her future endeavors.

**ACME Finvest Private Limited,**

V. Ramteke
15/03/2024

**Authorised Signatory**

Certificate No: IAMMAVEN-12122019-202301621

# CERTIFICATE

## OF COMPLETION

THIS CERTIFICATE IS AWARDED TO

**Dipit Aggarwal**

This certificate is awarded to Dipit Aggarwal for completing the "Sales Development" Internship Program at Mavenwit.
(Jan 2024 - Apr 2024)

17.04.2024

DATE

CEO - Mavenwit

Metrocraft

**Ref: MC/HR/TC/24-64**
**14th March, 2024**

## TO WHOM IT MAY CONCERN

This is to certify that **Mr. Divyansh Mehta, S/o. Mr. Rajesh Mehta**, student of Master of Business Administration (MBA) 4th semester, Himachal Pradesh University Business School Shimla has successfully completed industrial training in our organization in Account department from **15/01/2024** to **14/03/2024** as a part of his curriculum in the academic year 2023-2024.

We wish him every success in all his future endeavours.

For **Metrocraft**

For Metrocraft

Manager HR

**Authorized Signatory**

ADDRESS: KHASRA NO.-1874/450/1/1 & 2091/45
BHATOLIKALAN, BADDI, SOLAN (H.P.)
EMAIL: info@metrocraft.in, mgr.admin@metrocr

# OFFER LETTER

10 JANUARY 2024
AAHANA
7876011345
Dear AAHANA,

We were all very excited to meet & get to know you over the past few days. We've been impressed with your background & would like to formally offer you the position of HR INTERN. This is a full-time position.

You'll be reporting to the head of the respective department.

Your date of joining would be on: -10/01/2024.

Please sign the duplicate copy of this letter and return to us as a token of your acceptance of the terms and conditions of the assignment, or you can give your acceptance over the email also. We welcome you to our organization and sincerely hope that your association with our company will beof mutual benefit and satisfaction. We would love to have you on our team.

**Note:** - We will provide you with Employment Agreement in which will be mentioned your salary andcompany terms, so we look forward you on broad by10/01/2024.

Also,
We'll provide you with a hard copy of your offer letter.Thanking you

Best Regards,

(HR Team)

YOUNG CREATECH PVT.LTD

Date: 10/01/2024

_____

Accepted / Signed

SWARAJ

**Swaraj Division**
**Mahindra & Mahindra Ltd.**
Phase IV, Industrial Area,
S.A.S. Nagar (Mohali),
Punjab 160 055 India

Tel. +91 172 2271620 - 27

22nd March, 2024

## To whom So Ever it may concern

This is to certify that Mr Aakash Dhiman, an MBA student from **Himachal Pradesh University Business School- Shimla** has completed the internship program at our company from **22nd January, 2024** to **22nd March, 2024**.

During the period, he had worked on capturing and analysing the customer brand perception of Swaraj over the 50 years since its inception.

During the Internship, Aakash has shown a great amount of responsibility, sincerity, and genuine willingness to learn and zeal to take on new assignments and challenges.

We wish him all the very best for his future endeavours.

With Regards,
For Mahindra & Mahindra Ltd.

**Saurabh Arora**
**(Manager, Human Resources)**

Mahindra & Mahindra Ltd. Swaraj Division Mohali

# Certificate of Excellence

This certificate is proudly presented to

*Aaliya Khan*

for successful completion of an internship under ULead, an initiative by Unschool,

as a **HR Intern** from 15/02/2024 to 22/03/2024.

Unschool®



**Rahul Varma**
Chief Executive Officer

यूको बैंक
( भारत सरकार का उपक्रम )

UCO BANK
(A Govt. of India Undertaking)

सम्मान आपके विश्वास का
Honours Your Trust

Branch Office Chakkar, Shimla (2184)
शाखा कार्यालय चक्कर, शिमला - (2184)

Ref. No./संदर्भ संख्या : BO/Chakkar/ 113

Date /दिनाँक:

This is to certify that Mr. Aayush Sharma S/o Ved Prakash Sharma has completed internship in our branch UCO Bank Chakkar Shimla from 10.01.2024 to 02.03.2024 with our entire certification.

During his working period we found him a sincere, honest, hardworking, dedicated employee with professional attitude and very good job knowledge. He is amiable in nature and character as well.

We value his contribution to UCO Bank Chakkar Shimla and wish him all the best for his future.

Manager
Uco bank
Chakkar Shimla

# Himachal Pradesh Power Corporation Limited

(A State Government Undertaking)
Himfed Building, BCS, New Shimla - 171009 H.P.
Phones : 0177-2670633, 0177-2671589
CIN : U40101HP2006SGC030591


No. HPPCL/P&A/ Vocational Training /2023/Vol-X-20740 Dated: 29/02/2024

## To Whom It May Concern

It is certified that **Ms. Abhilasha Shandil,** Student of **MBA (HR)** Course at H.P.U. Business School, Summer Hill, Shimla (H.P) has successfully completed her Eight weeks Industrial Training in HPPCL w.e.f. **1st January 2024 to 29th Feb, 2024** in the **O/o Sr. Manager (Training & IR) HPPCL, Corporate Office, BCS, New Shimla, Shimla-171009.** During the training period in HPPCL, the candidate was found honest, obedient and hard working.

The training was imparted on the recommendations of **Dr. Rajesh Kumar, Training & Placement Coordinator, H.P.U. Business School, Summer Hill, Shimla, H.P.** in partial fulfillment of **"Master of Business Administration".**

**I wish her all the success in future strides.**

29/2/2024
**Sr. Manager (P&A)**
**Corporate Office, HPPCL,**
**BCS, New Shimla-9**

**Ms. Abhilasha Shandil,**
**MBA (HR), H.P.U. Business School,**
**Summer Hill, Shimla (H.P.)**

HP POWER CORPORATION LTD.

FUJIKAWA POWER

**Ref: OFPPL/HR/April-24** **Date 06.04.2024**

# Certificate of Completion of Internship

## To Whom It May Concern

This is to certify that Mr. **Abhinav Singh**, an MBA student from Himachal Pradesh University Business School, Summer Hill, Shimla, Himachal Pradesh 171005, has successfully completed a 3-months internship with our organization from January 8, 2024, to April 6, 2024.

During his tenure with us, he exhibited commendable conduct. He consistently demonstrated sincerity and diligence in his work. His friendly demeanor contributed positively to the work environment.

We commend Mr. Abhinav Singh for his hard work and dedication throughout his internship. On behalf of our organization, I extend our best wishes to him for all his future endeavors.

For **Okaya Fujikawa Power Pvt. Ltd**

FOR OKAYA FUJIKAWA POWER PRIVATE LIMITED

Manager HR

(Manager HR)

**OKAYA FUJIKAWA POWER PVT. LTD.**
**REGD. OFFICE** : H-19, Udyog Nagar, Rohtak Road, New Delhi - 110 041, India.
vp.fbcl@okayapowerltd.com +91 11 47451500
CIN: U31109DL2022PTC397158

एसजेवीएन लिमिटेड
**SJVN Limited**
(A Joint Venture of Govt. of India & Govt. of H.P.)
A Mini Ratna & Schedule 'A' PSU
CIN: L4014HP1988GOI0020409
रामपुर हाइड्रो पावर स्टेशन
Rampur Hydro Power Station

**Ref. SJVN/RHPS/HR/Estt013/** 3147 **Dated: 01.03.2024**

## To Whomsoever It May Concern

This is to certify that Sh. Abhishek, S/o Sh. Santosh Kumar, MBA (HR & Marketing), student of HPU, Shimla (HP), has successfully completed Industrial/Project Training in Rampur Hydro Power Station, 412 MW, Bayal, Distt. Kullu (H.P) w.e.f 1st January 2024 to 29th February 2024.

He was found to be sincere and hardworking during the training period.

Manju Saini 01.03.2024

**(Manju Saini)**
**Manager (HR)**

Manager (HR)
Human Resource Deptt.
Rampur HPS, Bayal

KLOCRIX
BUSINESS SOLUTIONS

DATE: 20/03/2024

## CERTIFICATE OF INTERNSHIP

This certifies that Abhishek has completed HR internship at Klocrix Business Solutions Pvt Ltd from 3rd January 2024 to 4th march 2024. We found him sincere, hardworking and dedicated and result oriented. He worked well as part of the team during his tenure. We take this opportunity to thank him and wish him all the best for her future.

HR Department

(Authorized Signatory)

Klocrix Business Solutions Pvt. Ltd.

Fundsroom

www.fundsroom.com
connect@fundsroom.com

# Internship Certificate

Date: 4th March,2024

To Whomsoever It May Concern

We are pleased to confirm that **Mr. Abhishek Shandil** has successfully undertaken his role as a **Financial Analyst Intern** and completed his internship for a period of 45 days from 6th January 2024 to 20th February 2024.

During his time at Fundsroom, he showcased some key traits which emphasized managerial and technical skills related to his domain which included financial knowledge related to various investment sectors, research, and analysis regarding the topic related to the product/service which overall impacted a positive manner which led to the growth of the organization.

We would like to wish him best of luck for his future professional journey ahead and we believe his dedication, knowledge and zest to work would surely help the future workplace.

Thanking you!

Yours Sincerely
Fundsroom Investment Services.

Fundsroom Investment Services
Reg No- 48100052 40594

Pooja Shedge
Branch Manager

Fundsroom

www.fundsroom.com
connect@fundsroom.com

# Internship Certificate

Date: 4th March,2024

To Whomsoever It May Concern

We are pleased to confirm that **Mr. Abhishek Thakur** has successfully undertaken his role as a **Financial Analyst Intern** and completed his internship for a period of 45 days from 6th January 2024 to 20th February 2024.

During his time at Fundsroom, he showcased some key traits which emphasized managerial and technical skills related to his domain which included financial knowledge related to various investment sectors, research, and analysis regarding the topic related to the product/service which overall impacted a positive manner which led to the growth of the organization.

We would like to wish him best of luck for his future professional journey ahead and we believe his dedication, knowledge and zest to work would surely help the future workplace.

Thanking you!

Yours Sincerely
Fundsroom Investment Services.

Fundsroom Investment Services
Reg No- 48100052 40594

Pooja Shedge
Branch Manager

DAMCO
Ensuring Success. Always

Date: 16/04/2024
Name: Aditya Kumar Sharma
Apprentice ID: 8068
Date of Joining: 10/01/2024

Subject: - **Relieving letter**

Dear **Aditya Kumar Sharma,**

Pursuant to your decision to resign from the services to the company as on **09/04/2024**, and completion of all your Exit formalities, we confirm that you are hereby being relieved from your duties and responsibilities to the company from the closing hours of **15/04/24.**

Your Full and Final Stipend Payment shall be completed in the subsequent pay run on the 10th of the month.

We draw your attention to your continuing obligation of Confidentiality with respect to any propriety and confidential information of the company and its clients that you may have had access to during the course of your apprenticeship. Anything created while working with the company is considered to be Intellectual Property of your employer whether or not patentable or registerable under copyright or similar statue. Saving or using of such Intellectual Property is deemed inappropriate. You acknowledge that you did not copy, duplicate, recreate or record or otherwise keep in possession or deliver to anyone, any of Company (or its client) Confidential information and/or Intellectual property pursuant to your apprenticeship or otherwise in the possession of the company.

The company would like to remind you to take note of any restrictive clauses in your apprenticeship agreement and/or the "Non-Compete, Non-Disclosure & Non- Solicitation Agreement" as some of these may remain applicable in the period after you have separated from the company.

Your phenomenal contribution and accomplishments make you unique in every sense of the word. Your legacy will live here with all macros, and we wish you all the success in your new path.

*We will be happy to assist you anytime in the future, keep in Touch!*

Sincerely,
For Damcosoft Private Limited,

Shail Parashar
Shail Parashar (Apr 16, 2024 16:46 GMT+5.5)

Human Resource **Shail Parashar (Vice President)**
**HR@DAMCOSOFT.COM**

Acknowledged

Aditya K Sharma
Aditya K Sharma (Apr 16, 2024 17:14 GMT+5.5)

For any referral queries in the future, you may direct them to refcheck@damcosoft.com

कृषि सहकारी
कर्मचारी प्रशिक्षण संस्थान
सांगटी, समर हिल, शिमला - 171 005
टेलीफोन : 0177 - 2830561 2831780 फैक्स : 2830561
ई-मेल : acstishimla@yahoo.in

hpscb
(Scheduled Bank)

AGRICULTURE COOPERATIVE
STAFF TRAINING INSTITUTE (ACSTI)
Sangti, Summer Hill, Shimla – 171 005
Phone : 0177 - 2830561 2831780 Fax : 2830561
E-Mail : acstishimla@yahoo.in

Ref.No.: HP.ACSTI / SML / 184 / 1416 / 2023-24

Dated: 21.03.2024

# TO WHOM IT MAY CONCERN

It is certified that **Mr. Aditya Sharma,** VPO Soyra, Tehsil Balh, Mandi (HP) has successfully completed the Summer Training of 02 months on "**Financial Performance Analysis of the H.P. State Cooperative Bank Ltd.- A Comparative Study of B.O. Nerchowk, B.O. Dhanotu**" at Agriculture Cooperative Staff Training Institute (ACSTI) of the H.P. State Cooperative Bank Ltd.

Agri. Co-op. Staff Training Institute SHIMLA

For Principal

दि हिमाचल प्रदेश राज्य सहकारी बैंक मर्यादित
दि माल, शिमला - 171 001 (हिमाचल प्रदेश)
टेलीफोन : 0177 - 2804490, 91, 92 फैक्स : 2809991, 93
ई-मेल : info@hpscb.com

THE HIMACHAL PRADESH STATE COOPERATIVE BANK LTD.
The Mall, SHIMLA – 171 001 (Himachal Pradesh)
Phone : 0177 - 2804490, 91, 92 Fax : 2809991, 93
E-Mail : info@hpscb.com

# Himachal Pradesh Power Corporation Limited

(A State Government Undertaking)
Himfed Building, BCS, New Shimla - 171009 H.P.
Phones : 0177-2670633, 0177-2671589
CIN : U40101HP2006SGC030591


No. HPPCL/P&A/ Vocational Training /2023/Vol-X- 20450 Dated: 23/02/2024

## To Whom It May Concern

It is certified that **Mr. Akash Sharma,** Student of **MBA (Finance)** Course at H.P.U. Business School, Summer Hill, Shimla (H.P) has successfully completed his eight weeks Industrial Training in HPPCL w.e.f. **10th January 2024 to 23rd Feb, 2024** in the **O/o AGM (Finance) HPPCL, Corporate Office, BCS, New Shimla, Shimla-171009**. During the training period in HPPCL, the candidate was found honest, obedient and hard working.

The training was imparted on the recommendations of **Dr. Rajesh Kumar, Training & Placement Coordinator, H.P.U. Business School, Summer Hill, Shimla, H.P.** in partial fulfillment of "**Master of Business Administration**".

**I wish him all the success in future strides.**

23/2/2024
**Sr.Manager(Training)**
**Corporate Office, HPPCL,**
**BCS, New Shimla-9**

Mr. Akash Sharma,
MBA (Finance),
H.P.U. Business School,
Summer Hill, Shimla (H.P.)

Global AgriSystem
A member of Katra Group
An ISO 9001:2015 certified company

Visiting address:
Horizon, 5th Floor Plot No-445,
Udyog Vihar, Phase V Gurugram 122016
Tel : + 91- 1124 415 3830
E-mail consulting@globalagri.com
Website : www.globalagri.com
CIN: U67190DL1998PTC091660

**GAPL/Intern /2024-06**

**Date: 1st April 2024**

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Mr. Akshant Kumar Pajiyala** , student of Himachal Pradesh University Business School, has completed the assigned internship projects work on **"Preparation of 5 years plan for BBSSL and Business Plan Development for KRIBHCO and its member Primary Agricultural Cooperative Societies (PACS)"** under the guidance of **"Ms. Vandana Khurana, Asst. Manager, Global AgriSystem Pvt. Ltd".**

The project was undertaken from **02nd Jan 2024 to 31st March 2024.**

**For Global AgriSystem Pvt. Ltd**
Yours Sincerely

**S K Sharma**
**Managing Director**

GLOBAL AGRISYSTEM PVT. LTD. NEW DELHI

# THE KANGRA CENTRAL CO-OPERATIVE BANK LTD.

## कांगड़ा केन्द्रीय सहकारी बैंक सीमित

Head Office, Civil Lines, Dharamshala, Distt. Kangra, H.R - 176 215, Ph:01892-223280, 224607

**BRANCH OFFICE REHAN**

Ref No- KCCB Rehan/2023-24/1272

Date- 29/02/2024

To Whomsoever It May Concern

This is to certify that Mr. **Akshay Kumar** s/o Sh. Kashmiri Lal r/o Vill Moch Jhikla Po Sunet Teh Fatehpur Kangra, Roll No **36220010017** a student of **MBA (HRM) Final Year** in HP University Business School has completed his "**On the Job training**" in this Bank as "**Customer Relationship Management**" Intern w.e.f. **16/01/2024 to 29/02/2024**. During training period his behaviour towards customer and staff was very good and he has shown keenness in learning various aspects of work assigned to him. During training he has got the practical knowledge of banking services.

We wish him all the success in his future endeavours.

The Kangra Central Co-op Bank Ltd.

29/2/2024

Senior Manager
KCCB Rehan

Senior Branch Manager
B.O. Rehan

एसजेवीएन लिमिटेड
**SJVN Limited**
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
मिनी रत्न एवं अनुसूची 'ए' पी. एस. यू.
A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

**SJVN/CHQ/HR/HRD/115/1674** **11.03.2024**

# To Whom So Ever It May Concern

*This is to certify that Ms. Akshita Chauhan, student of MBA (Finance), Himachal Pradesh University Business School, Himachal Pradesh University, Shimla (HP) has undergone Industrial Training in SJVN Limited w.e.f. 16.01.2024 to 08.03.2024. During the training period, she was deputed in Finance Department, Corporate Headquarters, SJVN, Shimla, wherein she has carried out a project work on "Financial Evaluation". She has successfully completed the same and submitted a report to this effect, which was evaluated and found to be Excellent.*

*During this period she was found sincere and industrious.*

*We wish her bright future and success in life.*

11/3/24

***Dr. Vandana Bagharia Sehgal)***
***Sr. Manager (HR)***
***Corporate Training & HRD***

MAX LIFE INSURANCE

# Certificate Of Internship

Date: February 22, 2024

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Aman Verma**, a student at **Himachal Pradesh University Business School (HPUBS)**, successfully completed his internship of 2 months with **Max Life Insurance Company Limited**.

Internship: Financial Advisor

During his tenure, we found him active and competent in executing all assigned tasks and services were found to be satisfactory.

We wish him great success in all his future endeavors.

**Virender Singh Kanwar**
**(Branch Head)**

MAX LIFE INSURANCE CO. LTD.
3rd Floor, Hotel Himland West, Circular Road, Shimla - 171001 (Himachal Pradesh)
T +91- 022-61391600 F +91-1246659771 E Service.helpdesk@maxlifeinsurance.com W www.maxlifeinsurance.com
Corporate Identity Number - U74899DL2000PLC106723, IRDA Reg No - 104
Registered Office: Max House, 1 Dr Jha Marg, Okhla, New Delhi 110 020, India.

A Max Financial Services and MS Joint Venture

**PAISSO TECHNOLOGY PVT. LTD.**
C 127, 1st Floor, Phase 8 Industrial Area, Mohali (160071)

DialaBank
India's First Financial Helpline

**Mar 30, 2024**

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ananya Awasthi has completed her internship with **Paisso Technology Pvt. Ltd.** at the position of **Banking: Relationship Manager (Intern)** from **Jan 04, 2024** to **Mar 30, 2024.**

During this tenure of internship, Ananya remained involved in her work and she is a professionally sound, hard-working and devoted. She has the motivation to take initiatives and we feel delighted that she had been helpful in the advancement of our organization.

Moreover, she has a genial temperament and can efficiently work in a team for the realization of organizational goals and objectives.

We wish her all the best for future endeavor.

**With Best Wishes**

Jasleen Mangat

**Jasleen Kaur Mangat – HR Head**

एसजेवीएन
SJVN

# Certificate of
# TRAINING COMPLETION

SR No. : 282

This is to certify that Mr./Ms. ANCHAL DHIMAN

S/o D/o Sh. MADAN LAL, student of MBA (HR) from HIMACHAL PRADESH UNIVERSITY, SHIMLA has undergone industrial training in SJVN Limited at "Nathpa Jhakri Hydro Power Station - 1500 MW" – Jhakri w.e.f. 08/01/2024 to 02/03/2024.

Mr./Ms. ANCHAL DHIMAN has completed his/her training successfully. We wish all success and bright future in his/her career.

No. : G379

Date : 02/03/2024

Place : JHAKRI

02/03/24

Authorized Signatory

प्रबन्धक
मानव संसाधन विभाग
एन. जे. एच. पी. / झाकड़ी

Seal

# Himachal Pradesh Power Corporation Limited

(A State Government Undertaking)
Himfed Building, BCS, New Shimla - 171009 H.P.
Phones : 0177-2670633, 0177-2671589
CIN : U40101HP2006SGC030591


No. HPPCL/P&A/ Vocational Training /2023/Vol-X- 90449 Dated: 23/02/2024

## To Whom It May Concern

It is certified that **Mr. Anish Sharma,** Student of **MBA (Finance)** Course at H.P.U. Business School, Summer Hill, Shimla, H.P. has successfully completed his eight weeks Industrial Training in HPPCL w.e.f. **08th January 2024 to 23rd Feb,2024** in the **O/o AGM (Finance) HPPCL, Corporate Office, BCS, New Shimla, Shimla-171009.** During the training period in HPPCL, the candidate was found honest, obedient and hard working.

The training was imparted on the recommendations of **Dr. Rajesh Kumar, Training & Placement Coordinator, H.P.U. Business School, Summer Hill, Shimla, H.P.** in partial fulfillment of **"Master of Business Administration"**.

**I wish him all the success in future strides.**

Rishi
23/2/2024

**Sr.Manager (Training)**
**Corporate Office, HPPCL,**
**BCS, New Shimla-9**

**Mr. Anish Sharma,**
**MBA (Finance),**
**H.P.U. Business School,**
**Summer Hill, Shimla (H.P.)**

एसजेवीएन लिमिटेड
SJVN Limited
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A 'Mini Ratna' & Schedule 'A' PSU
CIN: L40101HP1988GOI008409

SJVN/CHQ/HR/HRD/115/1717

18.03.2024

## To Whom So Ever It May Concern

*This is to certify that Ms. Anjali Gupta, student of MBA (HR), Himachal Pradesh University Business School/HPU, Summer Hill has undergone Industrial Training in SJVN Limited w.e.f. 01.01.2024 to 29.02.2024. During the training period, she was deputed in HR Department, Corporate Headquarter SJVN, Shimla, wherein she has carried out her Industrial Training. . She has successfully completed the internship, which was found to be Excellent*

*During this period she was found sincere and industrious.*

*We wish her bright future and success in life.*

18/3/24

**(Dr. Vandana Bagharia Sehgal)**
**Sr.Manager (HR)**
**Corporate Training & HRD**

कारपोरेट मुख्यालय : शक्ति सदन, शनान,
मला–171006 (हि.प्र.) www.sjvn.nic.in
घ्रकरण कार्यालय : एनबीसीसी कॉम्पलेक्स, टॉवर–1,
ीं मंजिल, पूर्वी किदवई नगर, नई दिल्ली–110023
भाष: 011–61901919 फैक्स: 011–61901915
पने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

Corporate H.Q. : Shakti Sadan, Shanan,
Shimla-171006, (H.P.) www.sjvn.nic.in
Expediting Office : NBCC Complex, Tower-1,
(6th Floor), East Kidwai Nagar, New Delhi-110023
Tele: 011-61901919, Fax: 011-61901915
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TECHNOLOGIES PVT LTD

www.avioxtechnologies.com
+91 950-175-4948
CIN U72200PB2019PTC048929
gstin 03AARCA8010G1ZX

**TO WHOM IT MAY CONCERN**

This is to certify that Mr. Ankit Sharma S/O Sh. Raj Kumar Sharma, Roll No. 22088 has completed his internship in **Digital Marketing** from our organization from **January 05, 2024 to March 04, 2024.**

We found him sincere and hardworking during the training period. We will him all the best for his future endeavors.

For Aviox Technologies Pvt. Ltd.

For Aviox Technologies Pvt. Ltd.

Authorized Signatory HR