

**HEALTHCARE AND TELEMEDICINE**  
**MAJOR PROJECT REPORT**

Submitted By

Biswajeet Mehta	DCOM-00269-020
Lilamani Prajapati	DCOM-00273-020
Suraj Kumar Mandal	DCOM-00288-020
Pawan Kumar Mahato	DCOM-00846-020
Nirmal Koirala	DCOM-00277-020

**Under of guidance**  
**Of**  
**Anish Ansari**

(Project Guide)

**In partial fulfillment for the awards of the degree**

**Of**

**DIPLOMA**

**IN**

**COMPUTER ENGINEERING**



**BIRGUNJ INSTITUTE OF TECHNOLOGY**

(Affiliated to council for technical Education and Vocational Training)  
(Batch 2077-2080)

# BIRGUNJ INSTITUTE OF TECHNOLOGY

Birgunj, Parsa, Nepal

Department Of Computer Engineering

Date.....



## Viva-Voce Sheet

We have conducted the viva voice Examination of the major project presented by

Biswajeet Mehta	DCOM-00269-020
Lilamani Prajapati	DCOM-00273-020
Suraj Kumar Mandal	DCOM-00288-020
Pawan Kumar Mahato	DCOM-00846-020
Nirmal Koirala	DCOM-00277-020

## Entitled

“**Healthcare and Telemedicine**” and found that major project to be original work of the students and written according to the prescribed format. We recommended the major project will have accepted as partial fulfillment of the requirement for Diploma in Computer Engineering **Diploma in computer engineering.**

## Viva-Voce Committee

Head of Department .....

Project Teacher .....

## **ACKNOWLEDGEMENT**

We take this opportunity to express our sincere gratitude to all those who helped us in various capacities in under taking project devising the report. We are privileged to express our sense of gratitude to our respected lecturer **Anish Ansari** whose unparalleled knowledge, moral fiber and judgment along with his was an immense in completing the project. We are grateful to the **HOD of Diploma in computer engineering Er. Sarita Jayaswal** and **Acting Principal of Birgunj Institute of Technology Er. Raghob Hossain** for the brain wave and encouragement given.

We also want to thank to our Lab Instructor **Mr. Laukesh Jaiswal** to help in the project format ideas. We are thankful to our friends and contemporaries for their cooperation and compliance.

## **PROJECT DEVELOPED BY:**

.....	.....	.....
Biswajeet Mehta	Lilamani Prajapati	Suraj Kumar Mandal
(DCOM-00269-020)	(DCOM-00273-020)	(DCOM-00288-020)
.....	.....	
Pawan Kumar Mahato	Nirmal Koirala	
(DCOM-00846-020)	(DCOM-00277-020)	

## **ABSTRACT**

The **Healthcare and Telemedicine** project is designed that aims to address the challenge of limited healthcare accessibility in remote and underserved areas. The project facilitates remote healthcare consultations, making it convenient for patients to receive quality healthcare services by offering a secure and user-friendly platform that connects patients with healthcare professionals from the comfort of their homes.

Our project "**Healthcare and Telemedicine**" is a kind of web application with all the required tools and functionalities of virtual hospital on a single system that can be handled by administrative head (Admin), staffs, as well as patient with their valid username and password. Our project has all the information about the doctor and patient, including appointment scheduling, secure video consultations, prescription management, and real-time access to healthcare professionals. The main objectives of developing this system is to facilitates health facilities and recommendation to the people of remote area's and manage their database in suitable and simple fashion. This application will provide a safe and secure access to the responsible authorities. Here the database holds all the details of each and every Doctors, and patients.

This Laravel-based healthcare and telemedicine application project serves as a transformative solution to overcome healthcare barriers, ensuring access to quality medical services, especially in remote and underserved areas. The project leverages Laravel's robust capabilities to create a secure, user-centric platform that connects patients with healthcare professionals through remote consultations.

### **Team Member Name**

Biswajeet Mehta (DCOM-00269-020)

Lilamani Prajapati (DCOM-00273-020)

Suraj Kumar Mandal (DCOM-00288-020)

Pawan Kumar Mahato (DCOM-00846-020)

Nirmal Koirala (DCOM-00277-020)

## **List of Figure**

<b>Figure Name</b>	<b>page No.</b>
<b>I.</b> Xampp	4
<b>II.</b> Module	6
<b>III.</b> ER – Diagram	8
<b>IV.</b> Admin Login Flow Chart	10
<b>V.</b> User Login Flow Chart	11
<b>VI.</b> Context Diagram	13
a) DFD Level 0: Context diagram	13
b) DFD Level 1.0: Admin login	13
c) DFD Level 1.1: User login system	14
<b>VII.</b> Admin Home Page	15
<b>VIII.</b> User Home page	16
<b>IX.</b> User Book Appoinment	16
<b>X.</b> Admin System setting	17
<b>XI.</b> User Specification tables	17
<b>XII.</b> User Specification Index	18

## Table of contents

Title	Page No.
<b>Introduction</b>	
1. Introduction	1
1.1. Advantage	1
1.2. Objectives	2
1.3. Goals	2
2. Php	2
2.1. Php Syntax	2
2.2. Why we use php	2
3. Html	3
3.1. Html example	3
3.2. Advantage of Html	3
3.3. Disadvantage of Html	3
3.4. Why html is used in Webpages	4
4. Xampp	4
5. System Analysis	5
5.1. Main Problem with Existing System	5
5.2. Requirement Specification	5
6. System Design	6
6.1. Module	6
6.2. Information About Form	7
6.3. ER – diagram	7
6.4. Flow chart diagram	8
6.5. Admin Login Flowchart	10
6.6. User Login Flowchart	11
7. Data Flow Diagram	12
8. Context Diagram	13
9. Admin Login system	13
9.1. User Login System	14
<b>Page Design</b>	
10. Login Page	15
10.1. Admin Home page	15
10.2. User Home Page	16
10.3. User Book Appointment	16
10.4. Admin System Setting	17
10.5. User Specification Tables	17
10.6. User Specification Index	18
11. Data Base SQL Tables	
11.1. User Login tables	19
11.2. System Setting Tables	19
11.3. User Mail Tables	20
11.4. Doctor Specification Tables	20
11.5. Doctor Tables	21

<b>12. Coding</b>	<b>22</b>
12.1. Footer	22
12.2. Header	22-26
12.3. Sidebar	27
12.4. Admin Dashboard	28
12.5. Backend admin login	29
<b>13. Conclusion</b>	<b>30</b>
<b>14. Reference</b>	<b>30</b>