

**Web Design and Development  
“Health Care System”**

BY

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“This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering”.

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## **APPROVAL**

This Project titled "**Health Care System**", submitted by Name: Tauhidul Islam, ID No: 151-15-4875, Name: Md. Tahrim Haque, ID No: 152-15-5961, Name: Sadia Rahman, ID No: 152-15-5537, to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 04/5/2019.

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## **DECLARATION**

We hereby declare that; this project has been done by us under the supervision of Umama Dewan, Lecturer, Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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## **Abstract**

This report is intended as a guide for teachers and engineering students when conducting research is part of course-work requirements. Discussion includes a description of a literature search, the purpose of a literature review finding sources (especially for engineering) and a general strategy to help conduct an efficient and productive literature search. Using tools such as this report, students can become more proactive about their research projects. Teachers can use this report, among other tools, to begin dialog with their students about expectations for research assignments. Two key steps in a literature search are: (i) finding sources; and (ii) synthesizing information. Each of these is addressed in two of the major sections in this report, as well as how the literature search relates to the entire research process. Then pertinent information is repeated in the summary section for convenience. An annotated reference list is included for ease in finding other useful guidance.

## LIST OF FIGURES

<b>FIGURES</b>		<b>PAGE NO</b>
Figure 3.1	Data flow diagram model	7
Figure 3.2	Use Case Modeling. Reception admin maintain	9
Figure 3.3	Use Case Admin, Doctor, Nurse. Patient	9
Figure 4.1	Management login	11
Figure 4.2	CSS design	11
Figure4.3	Usability	13
Figure 4.4	Accessibility.	14
Figure 5.1	Database implementation	15
Figure 5.2	Home Page	16
Figure 5.3	Doctor register form	17
Figure 5.4	Doctor login form	18
Figure 5.5	Doctor home page	19
Figure 5.6	Doctor appointment form	20
Figure 5.7	Patient register form	21
Figure 5.8	Patient details	22
Figure 5.9	Medicine order	23
figure 5.10	Medicine store	24

## TABLE OF CONTENT

<b>CONTENT</b>	<b>PAGE</b>
Board of Examiners	i
Declaration	ii
Acknowledgements	iii
Abstract	iv
List of Figures	v
<b>CHAPTER</b>	
<b>CHAPTER 1: INTRODUCTION</b>	1-3
1.1 Introduction	1
1.2 Motivation	1
1.3 Objectives	2
1.4 Expected Outcome	2
1.5 Report Layout	3
<b>CHAPTER 2: BACKGROUND</b>	4-6
2.1 Background Analysis	4
2.2 Related Work	4
2.3 Comparative Studies	5
2.4 Scope of the Problem	5
2.5 Challenges	6
<b>CHAPTER 3: SYSTEM AND DESIGN</b>	7-10
3.1 Data Flow Diagram Model	7
3.2 Requirement Collection Analysis	8
3.3 Use case Modeling	9
3.4 Design Requirements	10

<b>CHAPTER 4: DESIGN SPECIFICATION</b>	11-14
4.1 Front-end Design	11
4.2 Back-end Design	11
4.3 Interaction Design and UX	13
4.4 Implementation Requirements	14
<b>CHAPTER 5: IMPLEMENTING AND TESTING</b>	15-26
5.1 Implementation of Database	15
5.2 Implementation of Front-end Design	16
5.3 Implementation of Interactions	25
5.4 Testing Implementation	25
5.5 Test Result and Reports	26
<b>CHAPTER 6: CONCLUSION</b>	27-28
6.1 Limitation and Conclusion	27
6.2 Scope of Further Development	28
<b>REFERENCES</b>	29
<b>APENDIX</b>	20
Appendix A: Project Reflection	20

# CHAPTER 1

## Introduction

### 1.1 Introduction

Our project name is “Health Care System”. This is a web-based software where we completed our project by using HTML, CSS and PHP. In this project, we used theme and many plug in where we can design our website easily.

Health care system: A digital health care system for both patient and hospital staff (management). A Human can easily to use our health care website .All the user complicated situation have been understood by man him, part by –part their research and experiment .As a science and technology progressed, medicine became an integer part of the research. Nowadays, the healthy sector comprise of Medical institution, research and development institution and medical colleges. Thus the health sector aims given proper treatment without corruption.

### 1.2 Motivation

We want to give proper treatment by our hospital. I have spent long time in hospital and I saw different irregularity, and I also listen about irregularity from my friend and which people were suffer from that. According to my experience I tried my best to give a solution of the problems that I found from my experience. I think people will get inspiration using the project “Health Care System”.

According to our experience, we faced some problems. The government hospital has emergency service but they cannot implementation the service correctly. They do not use the OT schedule properly. Online hospital website search has never been easier, or more intuitive. A clean design, easy navigation, and innovative features make land search easy on the user to find our website.

### **1.3 Objective:**

This our project health care system to provide best medical facilities to user suffering from various ailments, which may be due to change in climatic condition, increase work-load, emotional trauma stress etc. It is necessary for the hospital to keep track of its day to day active & record of its patient, doctor, nurses, word boys and other staff personal that keep the hospital running smoothly & successfully. User will able to see the list of Ward or cabin room which are empty and which are not empty. User can see the price list of ward or cabin and also here people can view the OT schedule thus we can reduce corruption. Thus keeping the working of the manual system as the basic of our project. We have developed an automated version of manual system, named as “Administration Support System for Medical Institution”.

The main aim of our project is to provide a paper-less hospital up to 90%. It also aims given proper treatment at providing low-cost reliable automation of existing system. The system also provides excellent security of data at every level of user-system interaction and also provides robust & reliable strong and backup facility.

### **1.4 Expected Outcome**

The outcome of health care system project is very ordinary, but important. Some points are mentioned below.

- Using this website, doctor can schedule their duty and other important works. It will remind them of their works to be done.
- Communication with emergency doctor will be easier for patient. They advise and support any time.
- Some analog problem of hospital system will be digitalized
- By removing the part of Corruption, Brokerage this project help people to free from Anxiety
- The laborite of the peoples will be decreased during giving serial or any other hospital related work.
- People can believe in the health care system by considering our project management system.

## **1.4 Report Layout**

We developed a website which name is “Health Care System”. We make sure that the project complete in time. Respect to our workflow we design our project report.

In chapter 2-named Background, discuss about the Background Analysis, related works, comparative studies, scope of the problem, challenges.

In chapter 3-named System & Design, we discuss about Data Flow Diagram Model. Requirement Collection & Analysis, use case modeling, and design requirements.

In chapter 4-named design specification, we discuss about Font-End design, interaction design and UX, implementation requirements.

In chapter5-named Implementing and Testing, we discuss about the Implementation of Database, Implementation of Font-end Design, Implementation of Interaction, Testing Implementation, Test Results and Reports.

In chapter6-named Conclusion, we discuss about the Limitation and Conclusion, Scope of Future Development of the whole project.

## **CHAPTER 2**

### **Background**

#### **2.1 Background Analysis**

There are various management system but none of them provides any functional facility to the patient. The hospital system automated but the facility isn't for everybody. In some situation we considered that there should be some feature for patients. Few simple feature for viewing appointment, prescription and test report that can decrease altercation 60-70% .Because those are the sector where we find many problem and we can't find any way. So this will allow us something that we are waiting for many days. The world is moving toward the internet so this is the right time for thinking something like that. We have checked about some hospital management system on internet and some local programs that the hospital staff are using near me. Maximum of them are well designed and have rich features but nothing for the patient to be happy about is there. If the system doesn't provide benefits to every group of user then it can't be a perfect system. So we decide to create something which will be beneficial for every user.

#### **2.2 Related Works**

There are some website available related to this project but no one is totally similar. Some of the website that are similar are mentioned below.

To tell about related works which name come first is online hospital system. It is only available for doctor and patient. Every doctors will have a profile where doctor will be able to see their whole day work schedule. They can see their OT schedule, their outdoor patient appointment list.

Patient will get 24 hour service. They also can see their OT serial and time. There will be a digital pharmacy where they will get their medicine order in online.

Staring work on this project we searched a lot of website of hospital like Square Hospital, Islamic Hospital, and Heart Foundation and so on.

We also searched for some app for taking ideas for doctor's and patient's facility relation communication between them keeping in mind. Like Doctor on Demand, Teladoc application etc.

### **2.3 Comparative Studies**

There are a lot of communication system currently available now. By using that both doctors and patients become beneficial. Every Hospital management have their own strategy to maintain and communicate with their doctors and patients. As the world is going faster so there is always a hunger to communicate faster and effectively. But still now in the age of internet, we are still looking for a platform that make us comfortable to communicate.

So that we wish to offer such a maintenance communication system that will help us a lot. Using one communication platform is more comfortable than using three or four communication platforms. As internet reach everywhere, we can easily interact with everyone anytime, anywhere they live. In this competitive world we will say that, our system will keep people together and save their valuable time too.

### **2.4 Scope of the Problem**

It can be used in any Hospital, clinic, dispensary or pathology labs for mantling patient details and their test result.

- Using various numbers of platform may not be suitable for every doctor or patient.
- There is some manual system to communicate, but this is fully online based.

According to these problems, our website offers solutions that will help both the doctor and patient no doubt. We will look after this from two perspectives; one with the patient and another with the doctor.

For patient, helps

1. To get essay communication hospital management
2. Inpatient order medicine by online
3. Easy option to give a serial to the doctor.

For doctor, helps

1. To inform daily patient list
2. View OT schedule
3. View duty time daily.

## **2.5 Challenges**

Every work has some challenges. As communication is our main purpose so we have to face several challenges too.

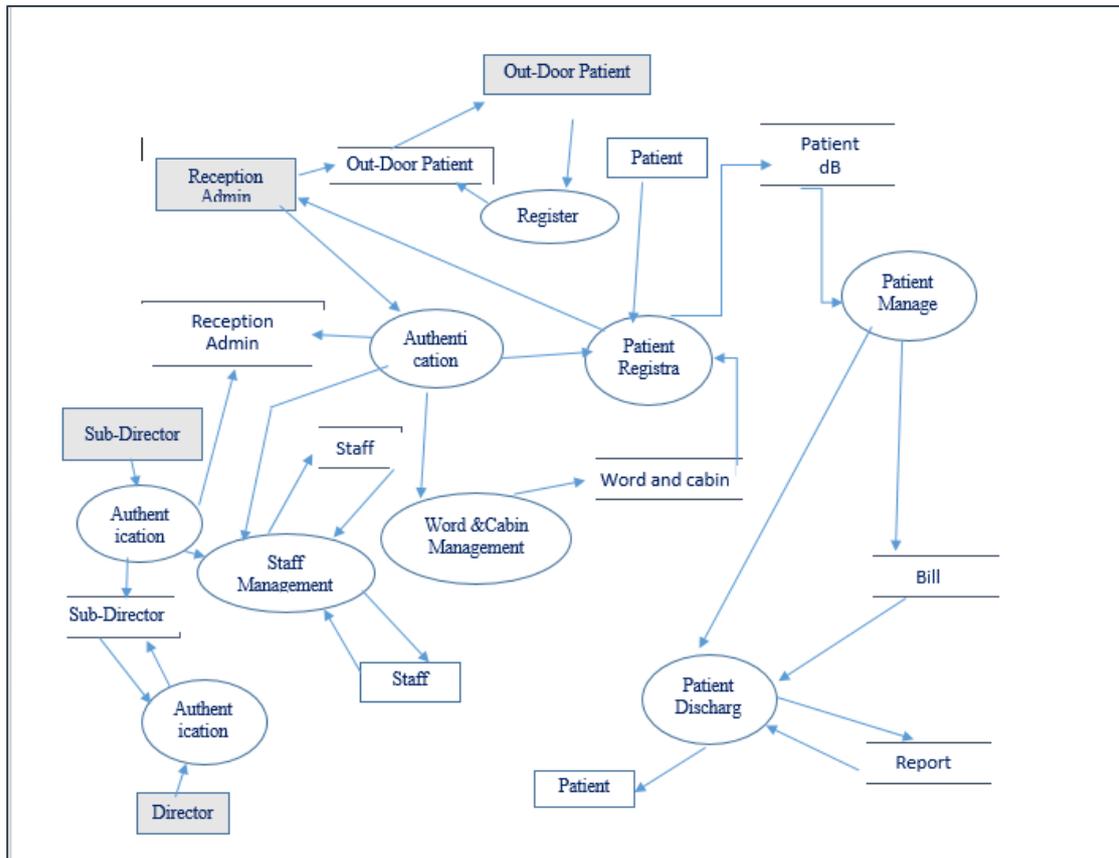
1. As it's a web based program, so people may face problem when they use this website in phone.
2. Another problem of our project is we didn't use router that's why people will face problem when they will use this website in their phone.
3. We will not get any notification from this project such as if a patient give appointment to a doctor the patient will not get any confirmation notification, if we order any medicine in our digital pharmacy from there also we will not get any notification. So there people will face some problem.

# CHAPTER 3

## Requirement and Specification

### 3.1 Data Flow Diagram Model

There is a diagram given below. This diagram is showing us the whole process of our project.



**Figure 3.1:** Data Flow Diagram Model.

### **3.1 Requirement Collection and Analysis**

When we are working on a project, a delivery time of the project has already given. That's why project works should be planned and executed to deliver timely with the solutions that are both relevant and realistic to the project problem.

Our project is an online based doctor and patient communication system by a hospital. So, the process of collection requirements must incorporate and address all the realities. It's because to identify the requirements at all levels and perceptions.

#### **Software Requirements:**

- Log in system for the Director
- Log in system for the Sub-Director
- Log in system for the reception Admin
- To give serial patient to the doctor
- Time convenience
- Easily accessible

#### **Hardware and Software Requirements for our system:**

Whenever you buy software or a hardware for your computer, you should first make sure that your computer supports the system requirements. These are the necessary specifications that your computer must have in order to use the software and hardware to be used efficiently; all computer software needs certain hardware components or other software resources to be present on a computer.

In development stage, the system requires for all tools and platforms describe to advance the new system like.

- XAMPP
- Excel file
- Sublime Text 3

### 3.3 Use Case Modeling

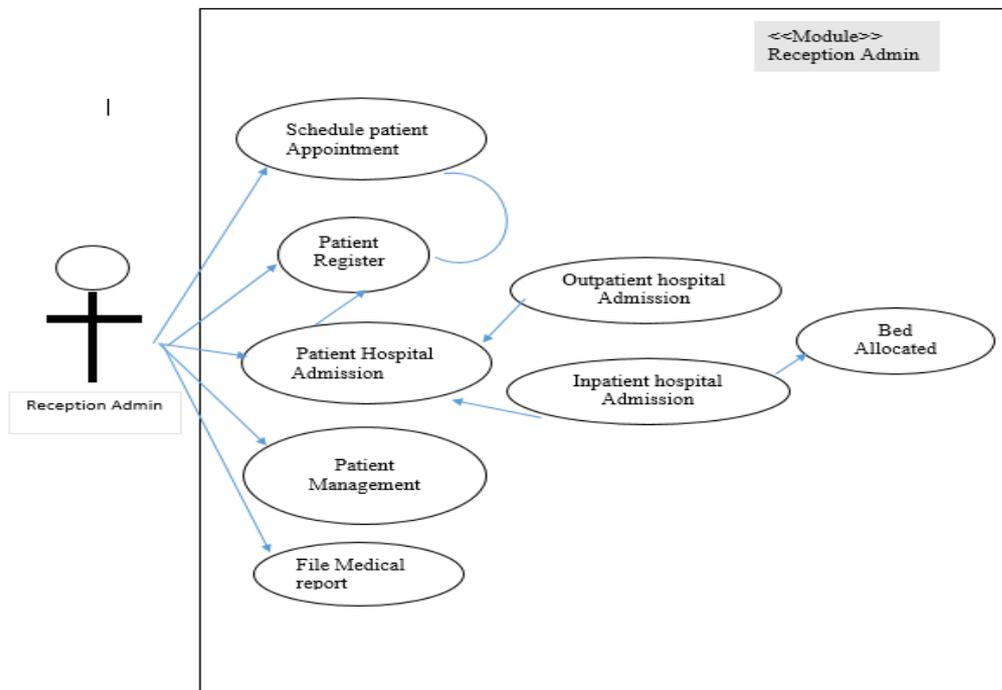


Figure 3.2: Use Case Modeling of Reception Admin

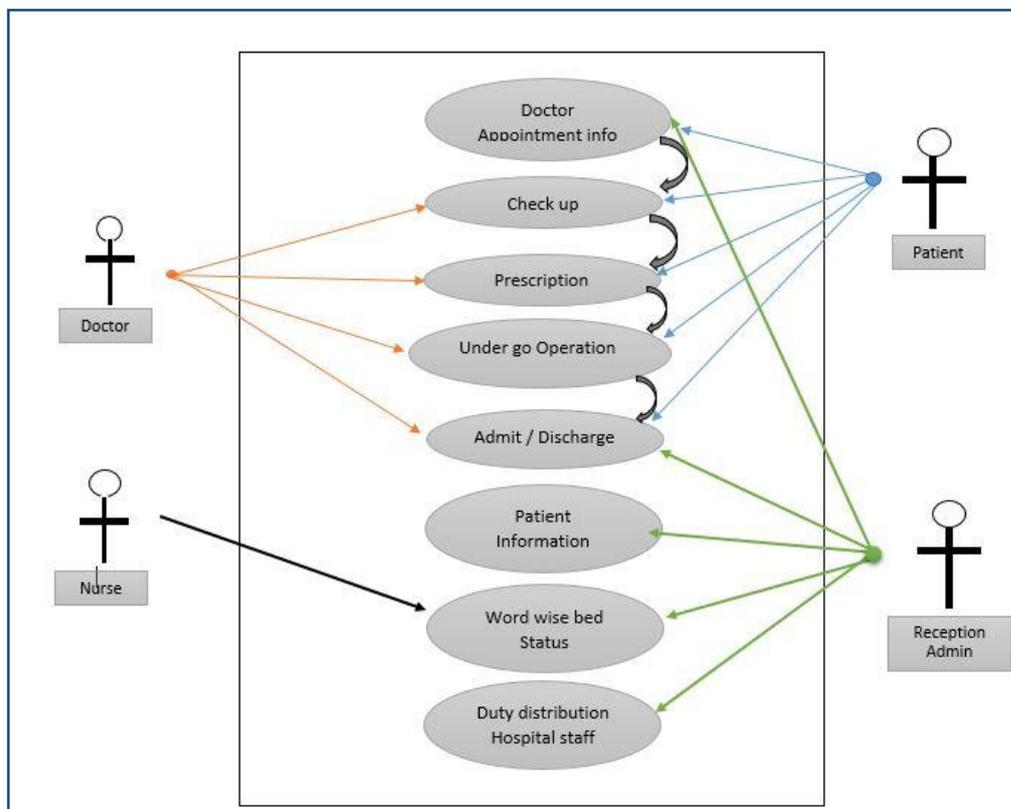


Figure 3.3: Use Case Modeling of Reception Admin, Doctor, Nurse and Patient.

### **3.4 Design Requirement**

When we design a software or system, at first we have to create a digital pharmacy/user can easily appointment doctor, where our website interacting with our brand, now our web site and our can easily relationship between hospital management person such as doctor and patient. Then we have to think many facility for design our website.

**3.4.1 Who are we:** We are review type website where anyone can treatment easily?

**3.4.2 Why are we awesome:** we are awesome because of our website have wish list, so that inpatient can wish or order medicine. This is the unique system .other website doesn't have this.

**3.4.3 Why should people engage with us:** Our site is very easy to use and anybody can access very easily and faster than others.

## **CHAPTER 4**

### **Design Specification**

#### **4.1 Front-end Design**

The front end usually designed by two parts, the web design and front-end web development. In present time, it has been cleared that there is a designed by HTML, CSS design. It has become more significant when people start working with JavaScript

Everything we can see that is a combination of HTML, CSS and JavaScript. This project include like fonts, drop-down menus, sells form, order form, sliders, contact forms etc.

#### **4.2 Back-end Design**

Usually the backend designed of three parts: a server, an application and a database. If you want an appointment under a doctor, you can easily open the hospital website and interact with the frontend. Once you have input the data that needed, the application save it in a database that was created on a server.

So, in our back-end system, we create the database to store data that the server gets through users. We basically used php for our website development.

## 4.1: Management Reception Admin Login

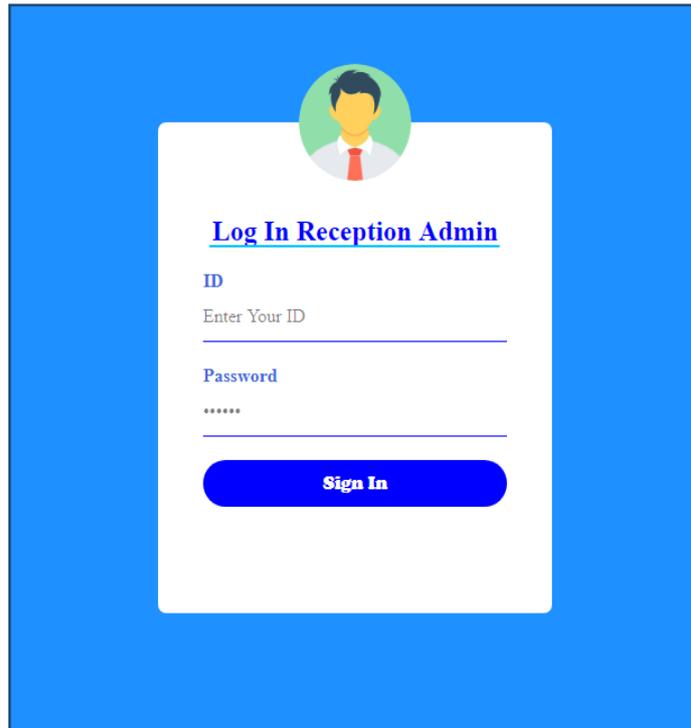


Figure 4.1: Reception Admin

## 4.2:HTML & CSS Design

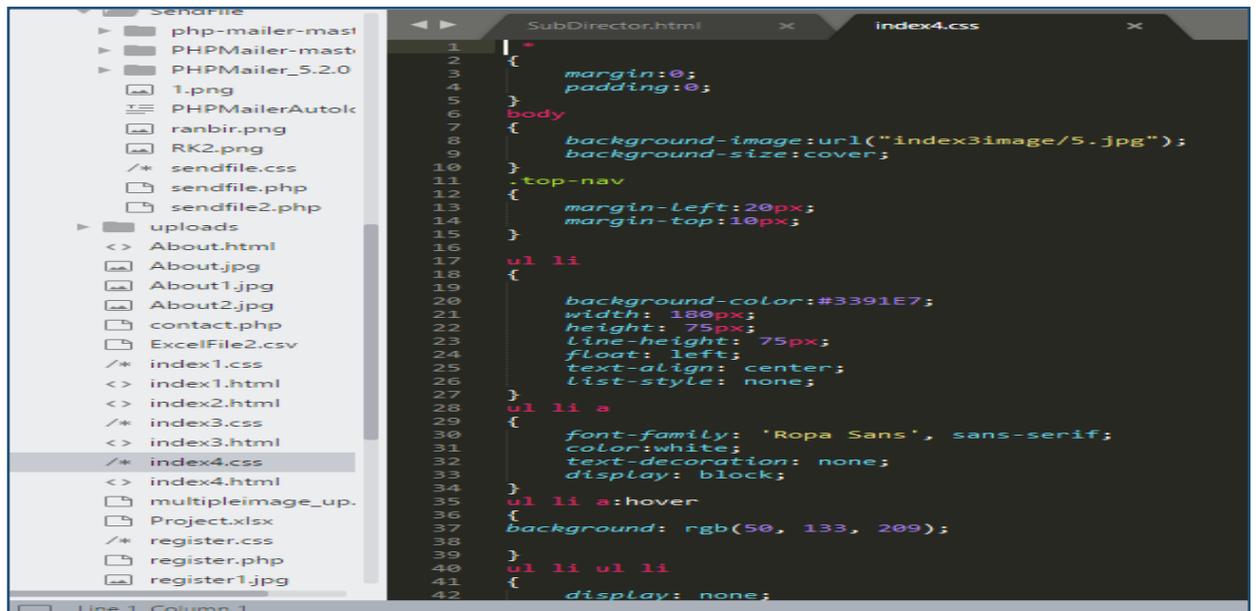


Figure 4.2: CSS Design

### 4.3 Interaction Design and UX

Interaction design is the major important part of User experience design or UX design. Interacting design is how to interact with our brand and our client or users. In this portion, we ensure how to benefit our users. At first, we have to focus on three kind.

**4.3.1 Usability:** Usability is more important in ux system, usability means how interactive our website and easier to use and how fast moving one page to another pages. In this section we have to concern about User interface design like navigation bar ,logo or icon setting, how familiar our website ,ensure our consistency and fixed all error or bugs.



**Figure 4.3:** Usability

**4.3.2 Accessibility:** accessibility works for how fast come up our site in google searching or another searching system. In this sector, we have to work for SEO (Search Engine Optimization) for that if any user search our site and find it very faster than other review website.



**Figure 4.4:** Accessibility

#### **4.4 Implementation Requirements**

The implementations Requirements given us a good idea that content are how friendly our site and how easy to use all the implementation. The list of implementation requirements are given below-

- Dynamic website
- Easy to use
- Easily managed
- Easy to given doctor appoint serial.
- Easier to interact
- Easy to access

# CHAPTER 5

## Implementation and Testing

### 5.1 Implementation of Database

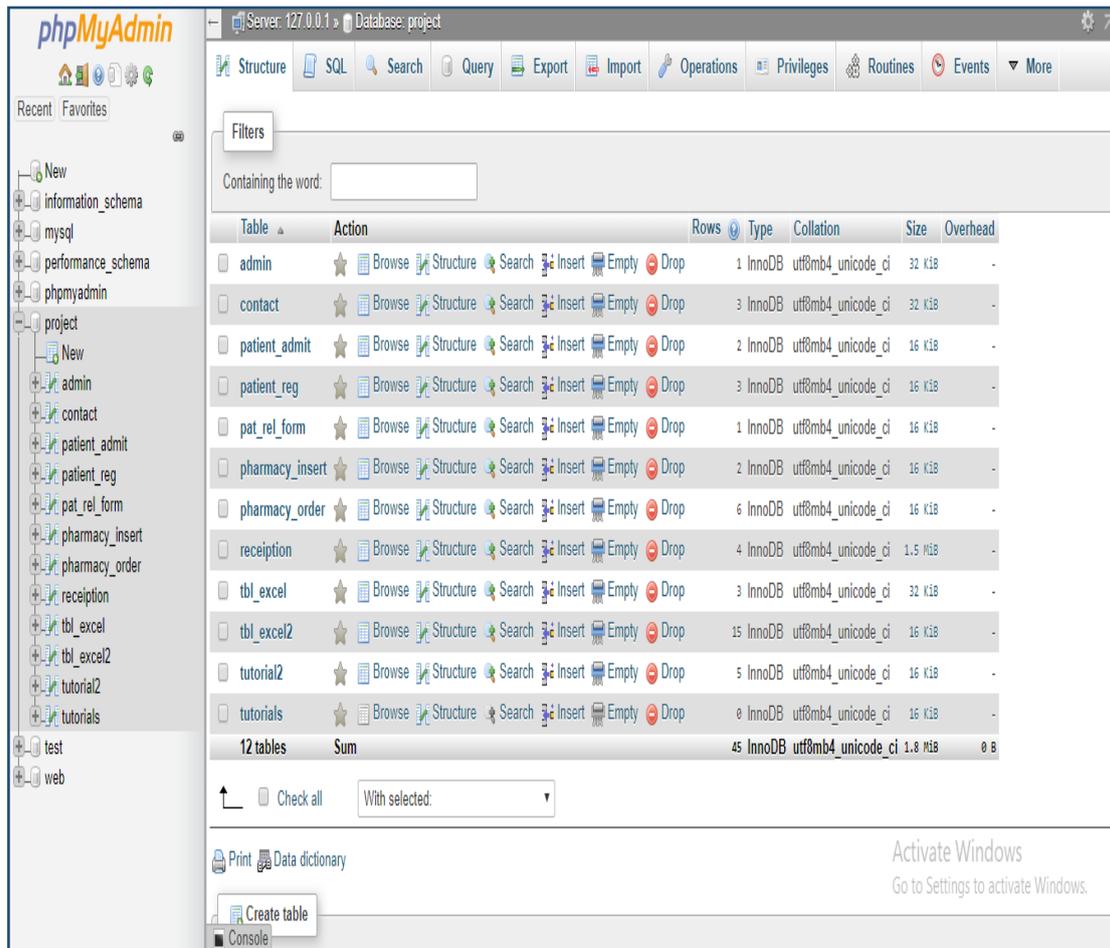


Figure 5.1: Database Implementation.

## 5.2 Implementation of Front-end Design

In Figure 5.2: below, we show the homepage of our website.



**Figure 5.2:** Homepage.

In Figure 5.3: below, add doctor is another important responsibility for the management. Here they need to add doctor all information which are needed in doctor register form. After successful registration then the doctor can access is own page and able to see all information.

**Doctor Register Form**

**Register Here**

**Id :**  
Your Id

**Date :**

**Password :**  
Your Password

**Image :**  
**Add File**

**Name :**  
Your Name

**Email :**  
Your Email

**Phone :**  
Your Phone Number

**Education Qualification :**  
Your Education Qualification

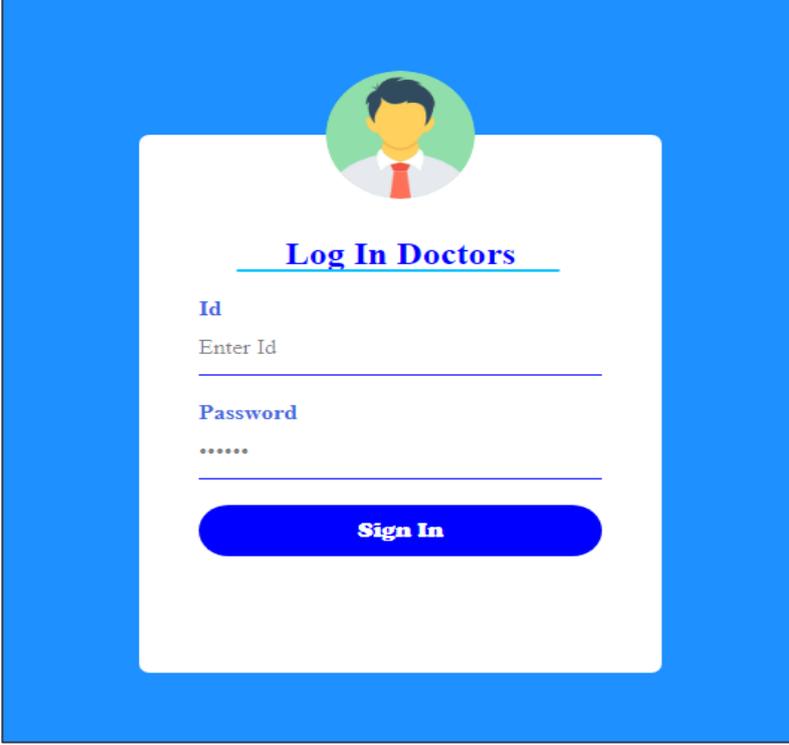
**Present Address :**  
Your Address

**Permanent Address :**  
Your Address

**Submit** **Cancel**

**Figure 5.3:** Doctor Register Form

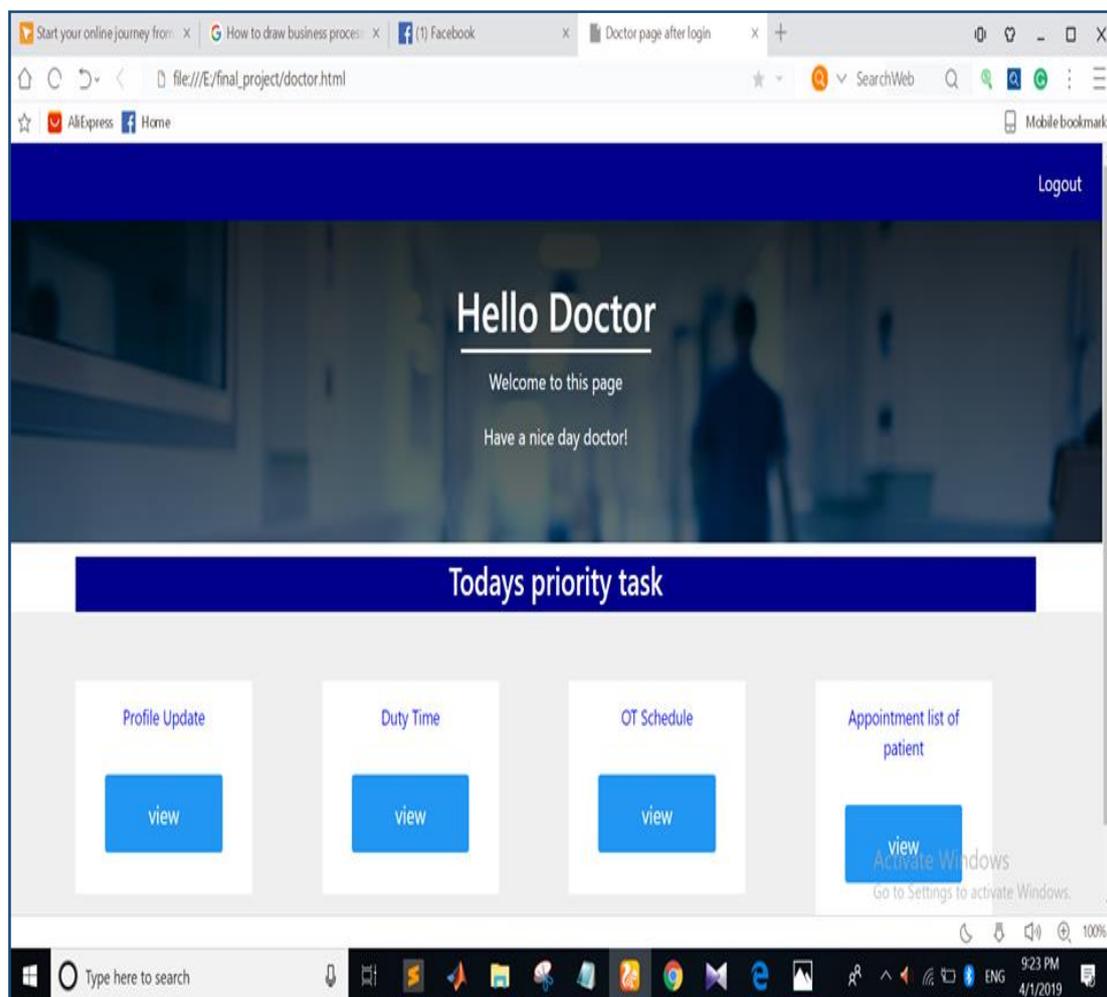
In Figure, 5.4: below, a general login page where doctor need to enter their email id and password to login. After providing proper email and password they will be able to access and can enjoy all those feature which are designed for them.



The image shows a login form for doctors. It features a blue background with a white central box. At the top of the white box is a circular icon of a doctor. Below the icon is the title "Log In Doctors" in blue, underlined. There are two input fields: "Id" with the placeholder text "Enter Id" and "Password" with placeholder dots. A blue "Sign In" button is located at the bottom of the form.

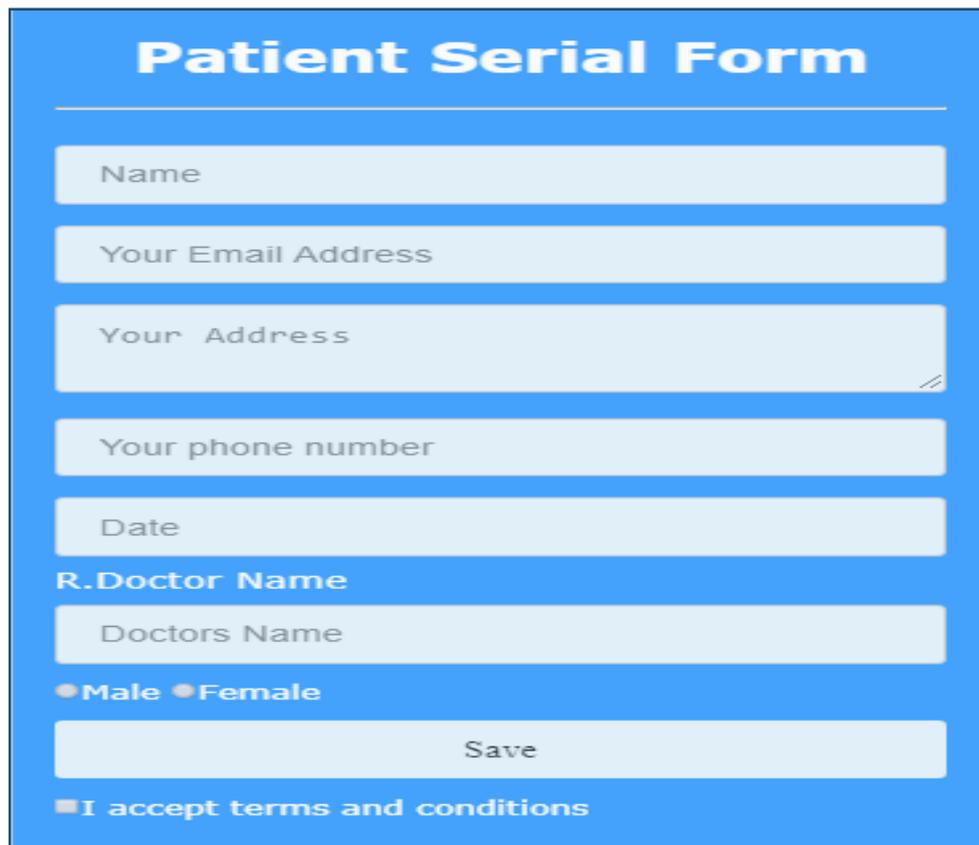
**Figure 5.4:** Doctor Login Form.

In Figure 5.5: given below, this is another important part of management system. They will have to add doctor's documents in details at doctor's accounts. As we know, using proper email and password doctor will be able to login. The figure given in below show us what doctor will be able to do or their facility. Doctors can update their profile, can see their duty time, OT schedule And appointment list of patient. So, all we can say it will be easy to maintain all work and schedule will be easy for a doctor.



**Figure 5.5:** Doctor Home Page.

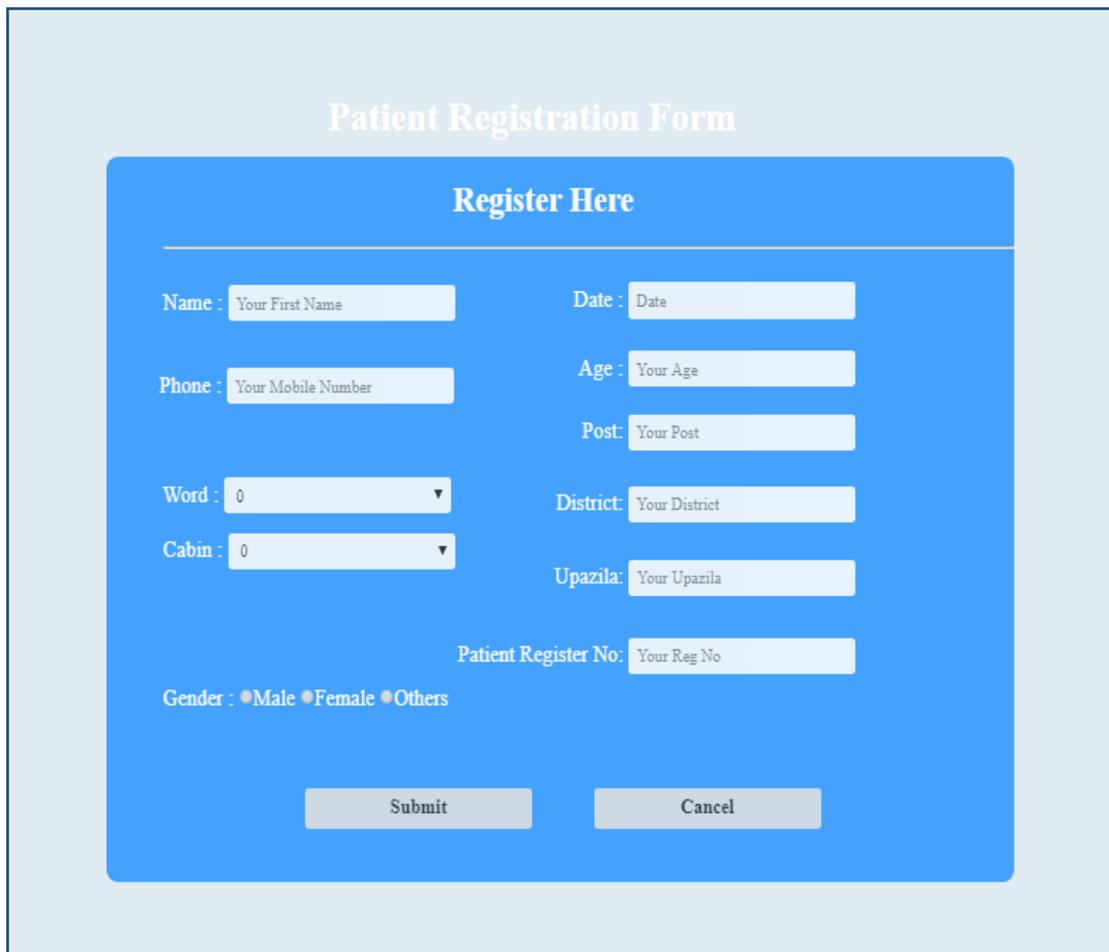
In Figure 5.6: given below this form is created for outdoor patient. For taking appointment of a doctor patient will have to fill this whole form. After that they will be able to get appointment of their desired doctor. For this type of patient management will add patient by the database by this page. Phone number is the tracking key of the patient. We assigned phone number as the primary key of the patient. The responsibility of management is always very high.



The image shows a web form titled "Patient Serial Form" with a blue background. The form contains several input fields and a submit button. The fields are: "Name", "Your Email Address", "Your Address", "Your phone number", "Date", "R.Doctor Name" (with a sub-field "Doctors Name"), and radio buttons for "Male" and "Female". At the bottom, there is a "Save" button and a checkbox labeled "I accept terms and conditions".

**Figure 5.6:** Patient Given Doctor Appointment

In Figure 5.7: given below this form is created for Admission patient (Inpatient). For getting admission in hospital patient must need to fill this form. . For also this type of patient management will add patient by the database by this page. Phone number is the verification of the patient. We assigned phone number as the primary key of the patient. The responsibility of management is always very high. They have to take care of that they submit every option correctly so that patient will not face any problem after admitting into hospital.



The image shows a web form titled "Patient Registration Form" with a sub-header "Register Here". The form is set against a blue background and contains the following fields:

- Name :
- Date :
- Phone :
- Age :
- Post:
- Word :
- District:
- Cabin :
- Upazila:
- Patient Register No:
- Gender :  Male  Female  Others

At the bottom of the form are two buttons: "Submit" and "Cancel".

**Figure 5.7:** Patient Register Form

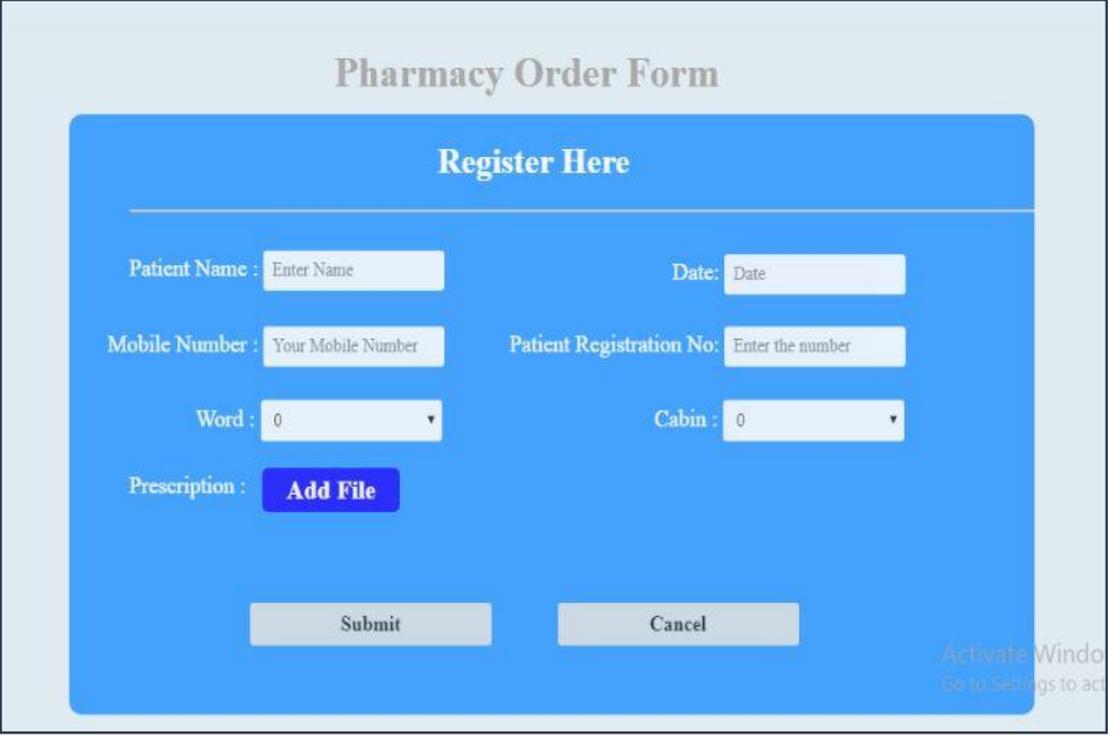
In Figure 5.8: given below, we can see this all information of Inpatient type of will be save into our hospital database. Hospital management will be able to see the patient details. If someone search for any patient at hospital it will be easy to search for the management of that patient and inform patient location or information.

Name	Date	MobileNo	Age	Ward	Cabin	Post	Upazila	District	PatientRegNo	Gender
Rahul Dev	2019-04-30 15:34:55	01555444333	24	0	C2	Bagherhat	Bagherhat	Bagherhat	17892	Male
Sagor Raihan	2019-04-30 15:28:55	01777888555	24	0	C1	Kushtia	Kushtia	Kushtia	12345	Male
Tauhidul Islam	2019-04-30 15:30:37	01777999111	24	W1	0	Rajshahi	Rajshahi	Rajshahi	13456	Male
Sadia Rahman	2019-04-30 15:33:57	01888777555	24	W2	0	Dhaka	Dhaka	Dhaka	14567	Female

Activate Windows  
Go to Settings to activate Windows.

**Figure 5.8:** Patient Details.

Figure 5.9: below, this is our digital pharmacy register form. From here any patient can order their medicine by filling up this form and uploading image of prescription and submitting this. After submitting this they can get their medicine by online at their cabin. So their also patient hassle reduce. And as this is online system so, they can't charge extra money for medicine.



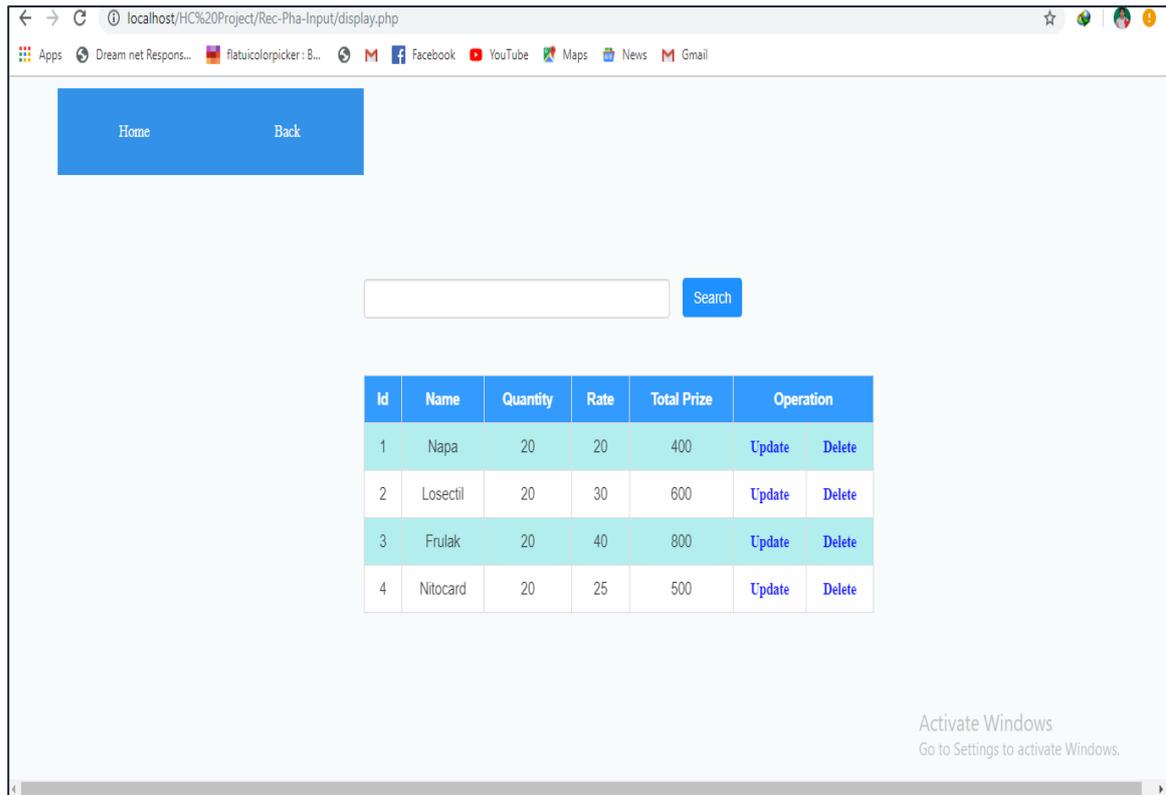
The image shows a digital pharmacy registration form titled "Pharmacy Order Form" with a sub-header "Register Here". The form is set against a blue background and contains the following fields and controls:

- Patient Name :**
- Date:**
- Mobile Number :**
- Patient Registration No:**
- Word :**  (dropdown menu)
- Cabin :**  (dropdown menu)
- Prescription :**
- 
- 

At the bottom right of the form, there is a watermark that reads "Activate Windows Go to Settings to activate Windows".

**Figure 5.9:** Medicine Order Form.

Figure 5.10: This page is created for pharmacy admin. Pharmacy admin can check the quantity and price of the medicines. Also can search for a medicine to check is the medicine in stock or out of stock. But for this pharmacy admin will have to log in first.



**Figure 5.10:** Medicine Store.

### **5.3 Implementation of Interactions**

In the present time, people's sufferings are increasing for different types of sites. It has been made to make their decision faster and easier. It ought to be done such a way that draws in the clients. At the point when the clients are on a specific page however need to do different things, which are on other action, are ceaselessly running.

### **5.4 Testing Implementation**

#### **5.4.1 Testing**

Testing is an essential part of any system-developing project. The main goal of testing is validating the contribution, authenticity, reliability and quality of the application. This project is to implement a Web based application that the right decision of the user for easy treatment.

#### **5.4.2 Unit Test**

Every part of this site is tested to make sure that its design is exactly completed. This make us ensure that each part of the website run as per the requirement.

#### **5.4.3 Unit Test Case**

We use some basic function in our website that is add information data, edit data and delete database handler will check these three functions. Now our database handler test cases will be like this.

1. Every user can add new data information successfully or not
2. Every user can edit his or her data information successfully or not.
3. Every user can delete his or her data successfully information or not.

## **5.5 Test Result and Reports**

Every one of the tests and combination can be finished through programming way where every blunder can be found and settled. We will show the screenshot of test result.

## CHAPTER 6

### Conclusion and Future Scope

#### 6.1 Limitation and Conclusion

The history of disease and sickness of a patient is very important but it is not available to doctor. When something like that will happened that will be very beneficial for both doctor and patient.

Another important part is privacy of users. Every user want privacy and this thing is respected by worldwide. The availability of data doesn't mean everyone will be able to see other person's information. Only register management user will be able to check certain data under some strict condition. If those condition didn't fulfilled they will not be able to check the data of the user.

#### 6.2 Conclusion

Online system is most exiting matter in the present situation. After doing this work, we faced many challenging tasks. We researched so many Hospital website that showed us the direction how to maintain a hospital proper way and we also notice some of the limitation of those hospital which was not available on those website. We detected that what type problem they are facing. They were cheerful to accept this website as it will give them some help in present day online time.

We share our project idea with several person, they give us some guideline that helped us a lot to develop this website. They cheer up a lot to do this project. It is an innovative idea. The open doors that gave through this site is tremendous. Expecting it will help them a ton.

### **6.3 Scope of Further Development**

Online health care system variable framework. It creates systematically, showing signs of improvement and better. Today what is look great is tomorrow winds up old. Thus, we need to refresh this framework every now and then.

1. We want to develop it for international hospital.
2. We need to make this site progressively appropriate, adaptable, easy to use, keep update the clients from time to time.
3. Now it has just content informing alternative to its patient yet we need to begin the voice informing, video sharing and so forth.

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## **APPENDIX**

### **Appendix A: Project Reflection**

The purpose of this Appendix is to provide an introduction to Project reflection. The group research project was a challenging and enjoyable experience typical of the course as a whole. We have had little exposure to group work at university. So, it was a nice change to be part of an effective and dynamic team. We complemented one another quite well both in bringing together interdisciplinary perspectives and in balancing the work at hand.

The experience taught us that planning and crafting responses takes a longer time in teams than on your own. The extensive effort required was ultimately a good thing. When working alone, we can end up with a result that is identical to our initial plans. In our group we are constantly developing and refining one another's ideas. It was fascinating just how productive our group meetings were. The time seemed to fly and yet we always got a lot done and managed to help another along the way towards the end point of having a substantive policy.