

# **EAST WEST UNIVERSITY**

## **E-Health Care & Online Pharmacy**



**By**

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The project has been submitted to the Department of the Computer Science & Engineering at East West University in the partial fulfillment of the requirement for the degree of Bachelor of Science in Computer Science and Engineering.

April, 2017

## DECLARATION

The project has been submitted to the Department of the Computer Science & Engineering, East West University in the partial fulfillment of the requirement for the degree of Bachelor of Science in CSE performed by me under supervision of Senior Lecturer Md. Sarwar Kamal, Department of CSE at East West University. This is also needed to certify that, the project work under the course '**Project Work (CSE-497)**'. I hereby, declare that this project has not been submitted elsewhere for the requirement of any degree or diploma or any other purposes.

Signature of the candidate

-----

**(Md. Rashedul Islam)**

## Letter of Acceptance

The Project entitled **E-Health Care & Online Pharmacy** submitted By Md. Rashedul Islam, Id: 2011-3-60-029 to the department of computer Science and Engineering, East West University, Dhaka Bangladesh is accepted as satisfactory for the partial fulfillment of the of the requirement for the degree of Bachelor of Science in Computer Science and Engineering on April 13, 2017.

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## Abstract

In this project, An E-Health Care & Online Pharmacy has three parts- patient interface, doctor interface and admin interface. Patient Panel permits to chat with doctors for treatment their diseases, can send photo of symptoms and get a prescription from doctor. Patient can also buy medicine from online pharmacy. On the other hand doctors can chat with their patient, can see their photo of symptoms and send prescription. This system presents an online chatting system of all type of specialist doctors can prescribe their patient on web. Admin can control the registered doctors, patients and also see all prescriptions. After finishing the prescribing process there is prescription will automatically send to the patients. This is a fully dynamic system which can be easily operated by the users.

## ACKNOWLEDGEMENTS

It has been great pleasure for me to develop Web Application for **E-Health Care & Online Pharmacy**. I have gathered sufficient knowledge and experience during this project.

I would like to thank my honorable teacher and supervisor of this project, Md. Sarwar Kamal, Senior Lecturer, Department of Computer Science and Engineering, East West University who guided me to proper analysis of the system and helped to develop an elegant and efficient system.

It was a great pleasure to study and work with many gifted people who influenced us in many ways. First of all, I would like to thank my project Supervisor Md. Sarwar Kamal. He does not only give me the great idea, but also encouraged me to seek out the clearest and deepest description of theoretical ideas as well as experimental findings. I am very grateful to him for his continuous support, advice and guidance.

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# Chapter 1

## Introduction

The E-Health Care is a web based application where a number of specialist doctors are chatting with patient and they will provide a prescription after recognize symptoms of diseases. On the other hand patient can also chat with doctors and send photo of symptoms. After prescribing patient can download the prescription. The E-Health Care system deals between doctor and patient. It provides the patients to register to this application and search specialist doctors, chatting and manage their accounts. Each patient will have their own account. Same way doctors that are willing to prescribe the patient. For this service doctors are also registered on this site. Only when doctors are online then they can prescribe. And doctors are show in specialist wise. Every patient can select their needed specialist to get treatment. After get prescription patient can buy their medicine on this site which is online pharmacy. In the online pharmacy is a ecommerce site where a number of medicine posted in different categories and a patient can buy to the needed medicine.

### 1.1 Motivation:

For my project I consider the E-Health Care & Online pharmacy as my target object. In our country there are few e-health site but they having some limitations such as:

- The web applications are not utilized properly by reducing the field level work
- The patient can't discuss with doctor about their diseases

### 1.2 Purpose of the Project

The system tends to replace the existing system for the treatment process which is not efficient, lengthy process and time consuming. This system is more user friendly than existing system that is why patient can easily access the system and collect their required information. Not only the patient but also the doctors and administrators can easily access their information. The main purpose of the system will be efficient patient chatting, get treatment from the doctors.

### 1.3 Objective

An E-Health Care web base application where the patient register with the website and find the specialist doctor for getting treatment. And after getting treatment doctor gives a prescription. On this site also available medicine store to buy needed medicine.

### 1.4 Scope

This system provides the treatment from doctors to patient with all necessary steps. The patient select their specialist doctor on the entire doctor list with detail. It provides the users with all the necessary privileges to access and modify the data intended for them. Following are the scopes of the developed system that are elaborately discussed:

➤ **For Admin:**

- **Manage user's info:** This module captures all the personal information of a patient or a doctor. Admin can also edit, active and delete all the users for necessity purpose.
- **Manage E-commerce :** Using module admin can manage ecommerce store with insert a category of medicine in the store. Also an admin can also edit or delete the category item.

➤ **For Doctor:**

- **Insert Detail:** A doctor can register and can insert the information with service detail.
- **View Patient Information:** This system shows that the doctor can see some basic information of the patient without going for full details.
- **Chat System:** Doctor can chat with patient and see photo of symptom. Then can provide a prescription.

➤ **For Patient:**

- **Insert Information:** By this system patient can register and can insert some basic information which will help a doctor to see in the basic information.
- **Chat System:** The system allow the registered patient to chat with the specialist doctors. And also send photo of symptoms. After all when doctor send prescription then patient can download it on press a button.

### 1.5 Outline

- Introduction
- Existing System
- Requirement Analysis
- Design Specification
- Conclusion and Future work

# Chapter 2

## Existing System

### 2.1 Existing Feature:

The features of the existing systems are listed below:

- View and edit the profile online from the personal administration space.
- Manage and edit the profile from the personal administration space.
- Search and View the database with the doctor information.
- Search and View the database with the patient information.
- Patient will request to chat with doctors on the website.
- Patient can buy medicine on the website.

### 2.2 Challenges of existing system:

There are some challenges of the existing system. Some are mentioned below:

- Display full details of a Patient profile.
- Display full details of a Doctor profile.
- Display a specific categories of medicine.
- Display previous chat and prescription with date which prescribed by specific specialist.

### **2.3 Proposed System:**

The proposed system will provide the following activates of the users:

#### ***Administrator Activities:***

- Administrator can manage the Admin panel.
- Administrator can manage post Medicine.
- Administrator can manage the Patient.
- Administrator can manage the Doctor.
- Administrator can manage the content of the site.

#### ***Patient Activities:***

- Patients can Registration in the site.
- Patients can view Doctors details.
- Patients can chat with doctors.
- Patients can send photo and download prescription.
- Patients can buy medicine on the site.

#### ***Doctors Activities:***

- Doctors can Registration for prescribing.
- Doctors can chat with patient and send prescription.
- Doctors can view patients photo of symptoms.
- Doctors can view previous prescriptions which are prescribed by him/her.

# Chapter 3

## Requirement Analysis

### 3.1 Requirement Analysis:

This web based health care system required the following requirements. This has mainly three actors. Those are Admin, Patient and Doctor. In an E-health care service Company holder is known as Patient and Prescriber is known as Doctor.

#### 3.1.1 Data Requirement

During requirement analysis the following data have been identified for a health care system:

- At first each person need to register himself/herself as a Patient or a Doctor for accessing the user's necessary information. They also have a user id and password. They can login to the system from the web using their id and password.
- Admin need to login to the system to operate the system. Admin has an individual or unique login user id and password. Through this id and password admin can login to the system.
- A patient can select a doctor for chatting about diseases. And also can send photo of symptoms.
- Admin can update all the information of the registered users. Any registered member can be deleted by the admin. And also view all prescription and can download.
- Admin can update the category list of the medicines. An admin can edit or delete a category from the medicine category list. Admin can also insert a new category menu in the category list. Admin can also insert medicine with price and quantity.

- Patient can chat with doctors. After patient discuss about diseases and send photo of symptoms. When Doctor send prescription then patient can print the prescription from the chat page.
- After get prescription patient need to buy medicine but no need to go outside home. Because Patient can buy medicine from selected category which are available in the site.
- Patient get the medicines at home just fill up form which is contains all details about patient current address.
- A doctor can chat with patient. When patient will give a message for consulting about disease. Then doctor can view full details of the patient. On the other hand patient also can view doctor full details.
- After chatting doctor will know about the diseases. If doctor need to see some symptoms of this disease. Then patient can send photo via webcam.

### **3.1.2 Process Requirement**

The following process requirements are identified for E-Health Care and Online Pharmacy system:

- A valid login is required for all process to be performed. A valid login is required for every registered users and admin. All of them have a valid user id and password. System will authenticate their valid login.
- After valid login Patient and Doctor can check his/her information, can see personal information and can check previous chat and download prescription.
- Admin can login to the system. Admin can view, delete and update all members' information. Admin can also enter new category in the list and insert new medicine.

## 3.2 Physical Design

The physical design relates to the actual input and output processes of the system. This is laid down in terms of how data is input into a system, how it is verified or authenticated, how it is processed, and how it is displayed as In Physical design; the following requirements about the system are decided.

- Input requirements
- Output requirements
- Storage requirements
- Processing Requirements

Put another way, the physical portion of systems design can generally be broken down into three subtasks-

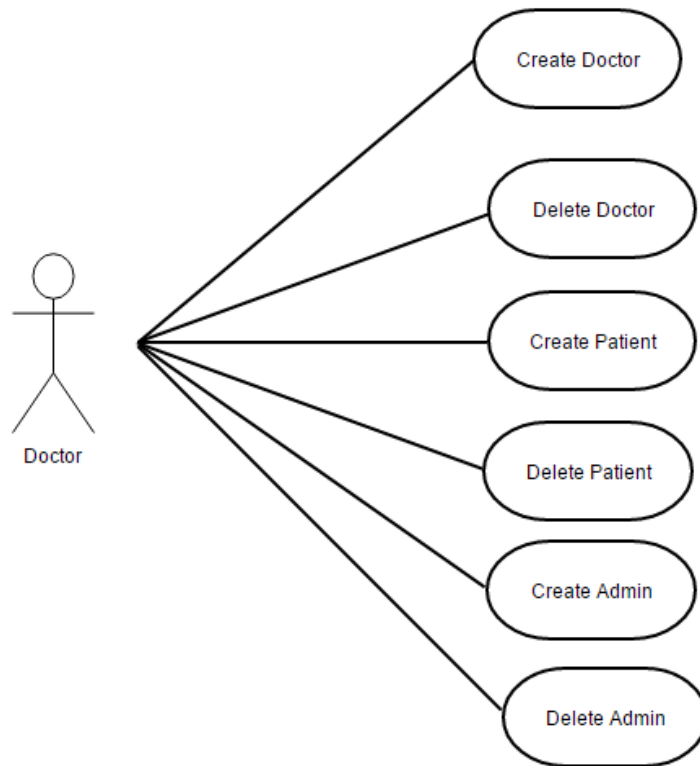
- User Interface Design
- Data Design
- Process Design



### 3.3 Use Case Diagram

#### 3.3.1 Use Case Diagram for Administrative Management

The use case diagram for administrative management is shown in figure 3.1



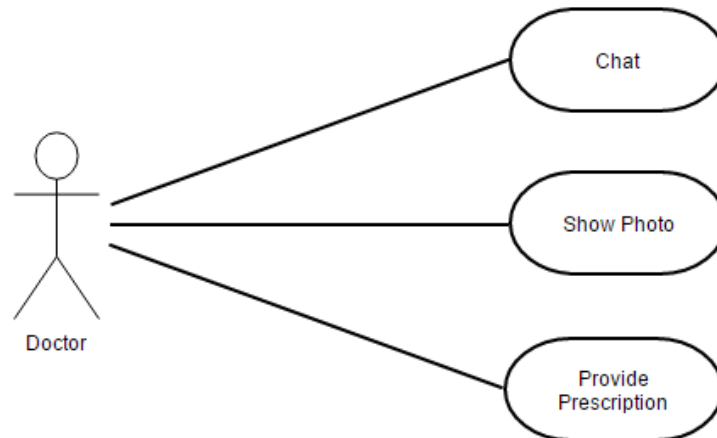
**Use Case Diagram for Admin**

**Description:** This is the use case diagram of an admin. This diagram shows which works are done by the admin.

- **Login:** The admin use the login part to perform the administrative works.
- **Add category:** Admin can add a category in the system. To perform this action admin must need to login to the system.
- **Edit or Delete category:** Admin can control the add or delete part of a category. But the admin must login to perform the action.
- **Create user:** Admin can create a user if the admin feels any necessity to perform any further action for the user.
- **Delete user:** Admin can delete user if he feels to perform any action for further purpose.

### 3.3.2 Use Case Diagram for Doctor Management

The use case diagram for Doctor management is shown in figure 3.2



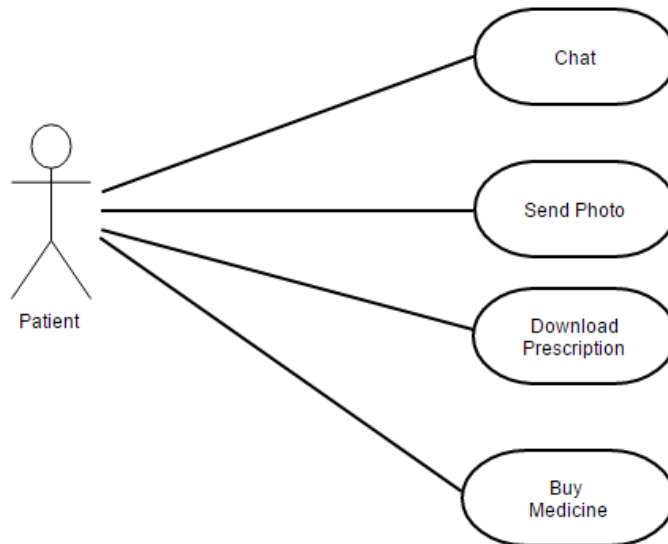
**Use Case Diagram for Doctor**

**Description:** This is the use case diagram of a doctor. This diagram shows which works are done by the doctor.

- **Register:** The users can perform the general registration to have an access as a registered user that named doctor.
- **Login:** The doctor uses the login part to perform the necessary actions.
- **Chat:** The doctor can chat with patient if patient send message to need treatment But doctor can not select patient to chat his own way. But the doctor must need to login to do the performance. Doctor can view the patient symptoms photos if patient send photo.
- **Edit Doctor Profile:** The doctor can edit his profile. There they can update their name, free time, specialist and contact details.
- **View All Prescribed Prescription:** The doctor can view all the prescription and details which are prescribed by him/her. Doctor can view these prescription after he downloaded the prescription.
- **Provide Prescription:** Doctor can provide prescription after chatting with patient.

### 3.3.3 Use Case Diagram for Patient Management

The use case diagram for Patient management is shown in figure 3.3



**Use Case Diagram for Patient**

**Description:** This is the use case diagram of a patient. This diagram shows which works are done by the patient.

- **Register:** The patient can perform the general registration to have an access as a registered user.
- **Login:** The patient uses the login part to perform the necessary actions.
- **Select a doctor for treatment:** The patient can select a doctor who is needed.
- **Chat:** The Patient can chat with selected doctor. Patient discuss about diseases on chatting. If Patient need to show any symptoms of disease then patient can send a image via web cam.
- **Download Prescription:** After chatting doctor will provide a prescription then patient can download it.
- **View All Prescription:** The Patient can view all prescription which is sent by doctors.
- **Update Profile:** Patient can update all information and details.
- **Buy Medicine:** Patient can buy medicine from the store site.

## **3.4 Software requirements**

For installing the system, we mainly required the following software, installed on the hosting system.

### **3.4.1 Web Server**

- Apache (Xampp server v 2.5)

### **3.4.2 Database Language:**

- MySQL

### **3.4.3 Server Side Language**

- Php

### **3.4.4 Visual Design**

- Sublime Text (v 3.0)

### **3.5 Software Implementation**

To implement this software the tools are used fully open sources. So that there are no costing involves developing this software. For designing this project HTML, CSS, JAVASCRIPT are used which is open source. Apache web server is used as web server. PHP is used for database coding. MySQL is used as database server.

#### **3.5.1 HTML**

HTML is short form of **Hyper Text Markup Language** and it is a language that are used to create electronic documents, especially pages on the World Wide Web that contain connections called hyperlinks to other pages. Every web page you see on the Internet, including this one contains HTML code that helps format and show text and images in an easy to read format. Without HTML a browser would not know how to format a page and would only display plain text with no formatting that contained no links. [1]

#### **3.5.2 PHP**

PHP is probably the most popular scripting language on the web. It is used to enhance web pages. With PHP, you can do things like create username and password login pages, check details from a form, create forums, picture galleries, surveys, and a whole lot more. If you've come across a web page that ends in PHP, then the author has written some programming code to liven up the plain, old HTML. PHP is known as a server-sided language. That's because the PHP doesn't get executed on your computer. But on the computer you requested the page from. The results are then handed over to you, and displayed in your browser. [2]

#### **3.5.3 PHP CodeIgniter Framework**

CodeIgniter is an Application Development Framework - a toolkit - for people who build web sites using PHP. Its goal is to enable to develop projects much faster than you could if you were writing code from scratch, by providing a rich set of libraries for commonly needed tasks, as well as a simple interface and logical structure to access these libraries. Code Igniter lets you creatively focus on your project by minimizing the amount of code needed for a given task. [3]

#### **3.5.4 ION AUTH**

Ion auth is a simple and lightweight authentication library for the code igniter framework. This was built as github project and now is used worldwide by programmers and web developers using PHP codeigniter. This is a well organized authentication system.[4]

### 3.5.5 Apache Server (XAMPP)

The Apache HTTP Server, commonly referred to as Apache is a web server application notable for playing a key role in the initial growth of the World Wide Web. Apache is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation. Most commonly used on a Unix-like system, the software is available for a wide variety of operating systems, including Unix, FreeBSD, Linux, Solaris, Novell NetWare, OS X, Microsoft Windows, OS/2, TPF, OpenVMS and eComStation. Released under the Apache License, Apache is open-source software.

### 3.5.6 Editor (Sublime Text)

**Sublime Text** is the web development tool that lets you efficiently design, develop and maintain standards-based websites and applications. **Sublime text** provides a powerful combination of visual layout tools, application development features, and code editing support.

### 3.6 Database Implementation

After getting the requirement of a logical design and physical design of our database, we can move to the implementation stage. In general, implementing our physical design involves defining the various objects and enforcing the constraints on the data relationships.

#### 3.6.1 Database of User Information

Showing rows 0 - 3 (4 total, Query took 0.0011 seconds.)

```
SELECT * FROM `users`
```

[ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table

Sort by key: None

+ Options

	id	fullname	email	password	created	type	status	phone
<input type="checkbox"/>	4	Admin	admin@admin.com	5f4dcc3b5aa765d61d8327deb882cf99	2017-03-04 00:20:51	0	1	01966641014
<input type="checkbox"/>	8	Rashed Ebad	rashedebad.cse@gmail.com	912ec803b2ce49e4a541068d495ab570	2017-03-11 00:06:47	3	1	123
<input type="checkbox"/>	9	Doctor	doctor@gmail.com	912ec803b2ce49e4a541068d495ab570	2017-03-15 23:05:38	2	1	01723456789
<input type="checkbox"/>	10	Shobu	shobu@gmail.com	912ec803b2ce49e4a541068d495ab570	2017-04-05 17:35:59	3	1	0167111000

Check all | With selected: Edit Copy Delete Export

Figure: 3.4 Databases for User Information

#### 3.6.2 Database of Doctors Information:

Showing rows 0 - 1 (2 total, Query took 0.0006 seconds.)

```
SELECT * FROM `doctors`
```

[ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table

Sort by key: None

+ Options

	id	user_id	specialist	address	freetime	available
<input type="checkbox"/>	4	9	Children	Aftab Nagar	Sat-Fri : 7:00PM - 10:00PM	0
<input type="checkbox"/>	5	11	Children	Khilgaon	Sun, Tues, Thus 7:00pm - 10.00pm	0

Figure: 3.5 Databases for Doctors Information

### 3.6.3 Database of Group Member Information

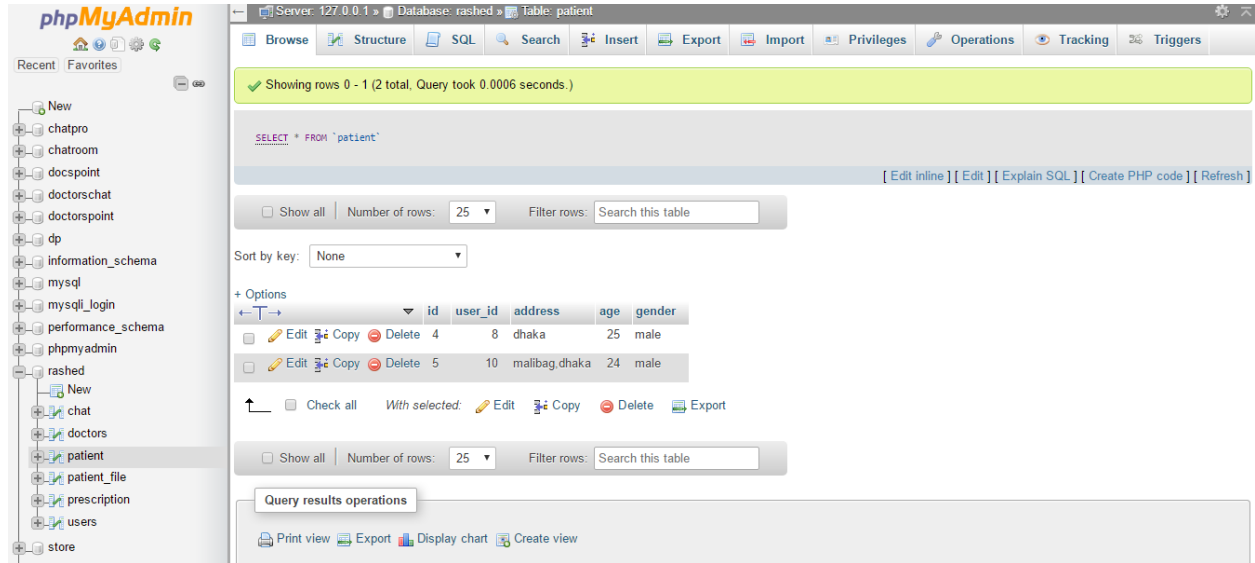


Figure: 3.6 Databases for Patient Information

### 3.6.4 Database of Chat Information

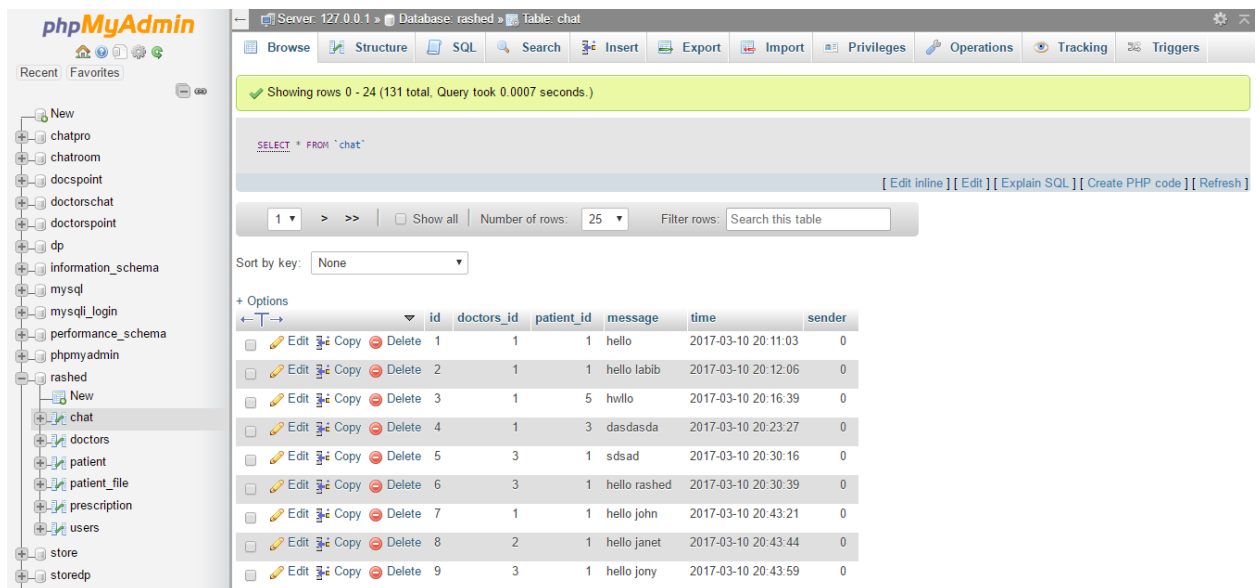


Figure: 3.7 Databases for Chat Information



### 3.6.5 Database of Patient File/Images Information

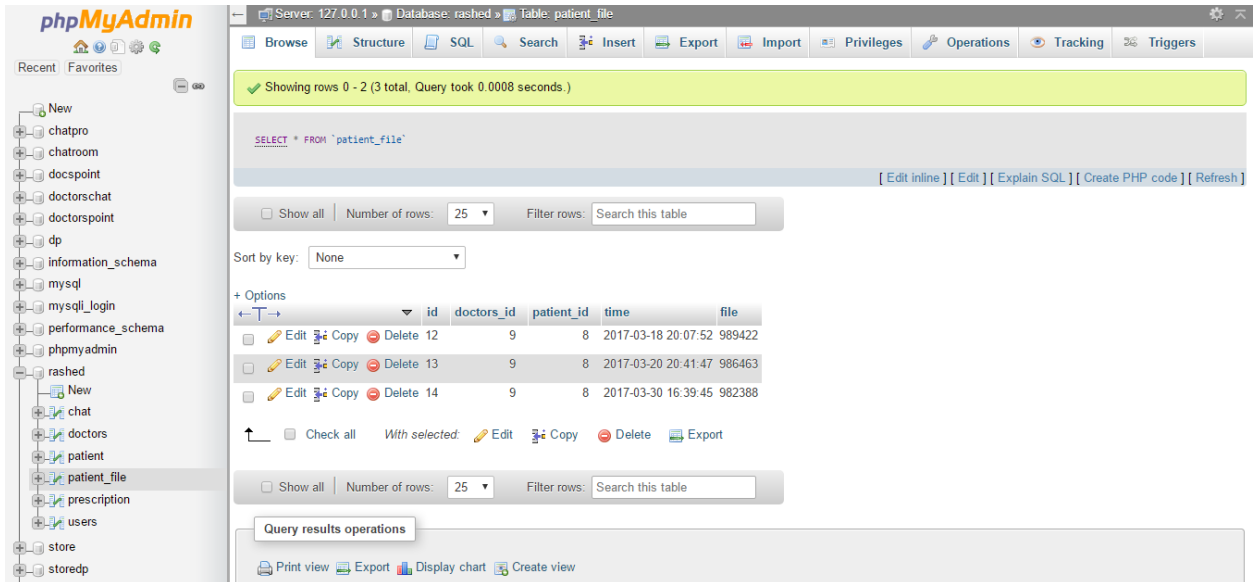


Figure: 3.8 Databases for Patient File/Images Information

### 3.6.6 Database of Prescription Information

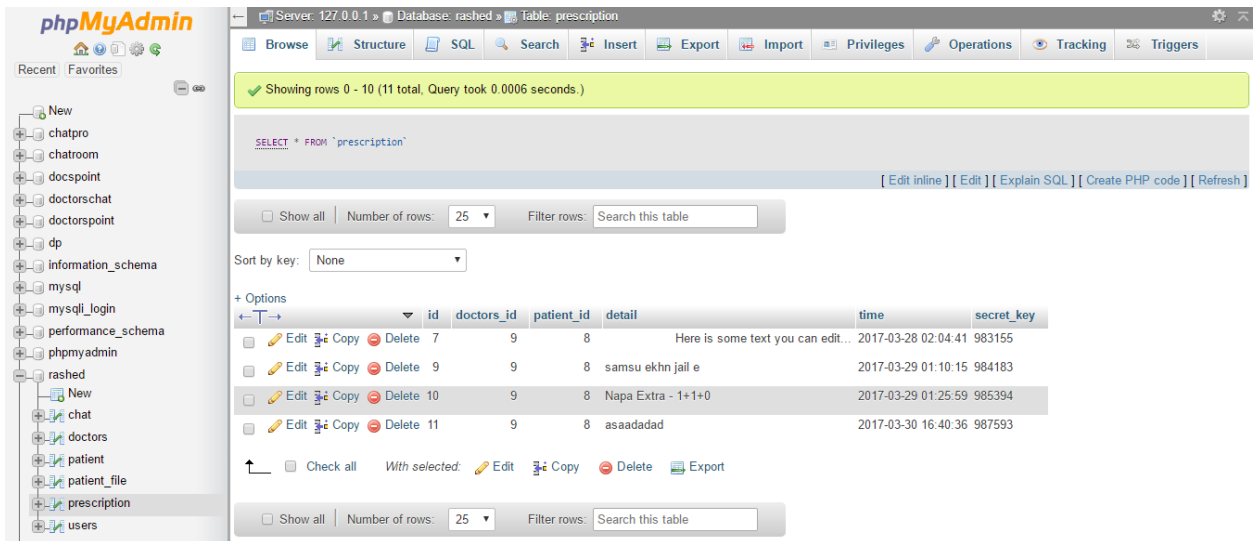


Figure: 3.9 Databases for Prescription Information

### 3.6.7 Database of Medicine's Categories Information

Showing rows 0 - 7 (8 total, Query took 0.0007 seconds.)

```
SELECT * FROM `category`
```

[ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table

Sort by key: None

+ Options

	id	category_name	category_image
<input type="checkbox"/>	11	Tablets	medications.02_5.jpg
<input type="checkbox"/>	12	Capsules	medications.02_6.jpg
<input type="checkbox"/>	13	Syrup	prescription-medicine-clip-art-at-clker-com-vector...
<input type="checkbox"/>	14	Drops	medical3.png
<input type="checkbox"/>	15	Injections	medical4.png
<input type="checkbox"/>	16	Cream	medical5.png
<input type="checkbox"/>	17	Suppository	prescription-medicine-clip-art-at-clker-com-vector...
<input type="checkbox"/>	18	Accessories	prescription-medicine-clip-art-at-clker-com-vector...

Figure: 3.10 Database for Medicine's Categories Information

### 3.6.8 Database of Product's Information

localhost / localhost / job: x

localhost/phpmyadmin/index.php?db=jobsite\_2&token=655d7d80e63dc86e94b6b39c74062a95

phpMyAdmin

localhost > jobsite\_2 > user-profile

Showing rows 0 - 0 (~1 total, Query took 0.0004 sec)

```
SELECT * FROM `user-profile` LIMIT 0, 30
```

Profiling [ Edit ] [ Explain SQL ] [ Create PHP Code ] [ Refresh ]

Show: 30 row(s) starting from record # 0 in horizontal mode and repeat headers after 100 cells

+ Options

	id	user_id	edu_qualification	experience_year	present_address	permanant_address	image	cv
<input type="checkbox"/>	1	21	BCS in CSE	2	fakirapool	fakirapool	images1.jpg	New_Text_Document.txt

Check All / Uncheck All With selected:

Show: 30 row(s) starting from record # 0 in horizontal mode and repeat headers after 100 cells

Query results operations

Print view | Print view (with full texts) | Export | CREATE VIEW

Bookmark this SQL query

Figure: 3.11 Database for Product's Information

# Chapter 4

## Design Specification

### 4.1 Interface

A critical aspect of systems design is to create the user interface to the new system. Input and output design focuses on the content of that interface – the specific fields that should be included in screens and reports that are viewed by the users. Once the content is determined, the format for human-computer interaction (HCI) is determined. The user interface (UI) is the way the system talks to the users, using screens/forms, reports, and error messages. During interface design developers identify procedures for each system activity and the required inputs for those activities. These required inputs become screens or forms. User involvement is critical during these design activities.

### 4.2 User Interface

#### 4.2.1 Home Page

The home page of the E-Health Care system and Online Pharmacy is shown in figure 4.1

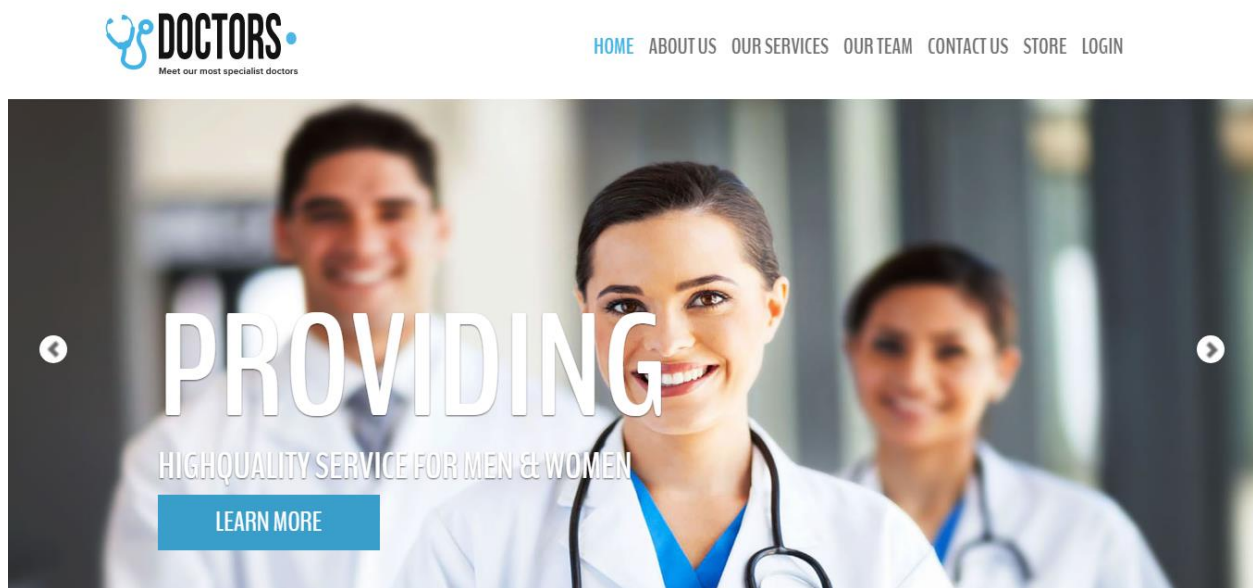
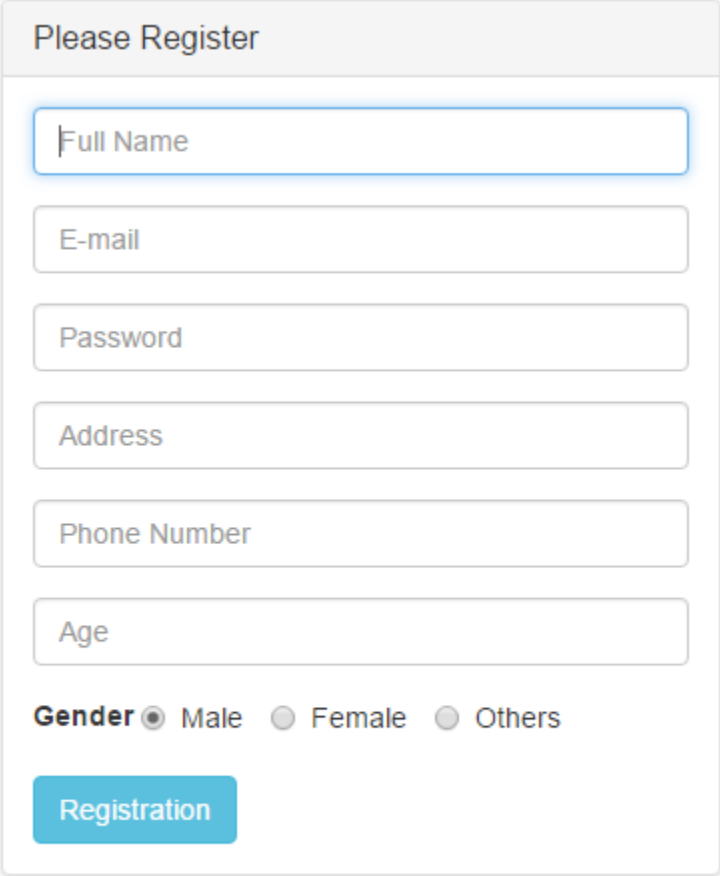


Figure 4.1: Home page

**Description:** This is the home page for -Health Care system and Online Pharmacy. In the top menu there is Login and Store in part and in middle there are category part. In the bottom part there are the website information given.

### 4.2.2 Registration Page

The sign up or registration page of the E-Health Care system and Online Pharmacy is shown in figure 4.2



The registration form is titled "Please Register" and contains the following fields and options:

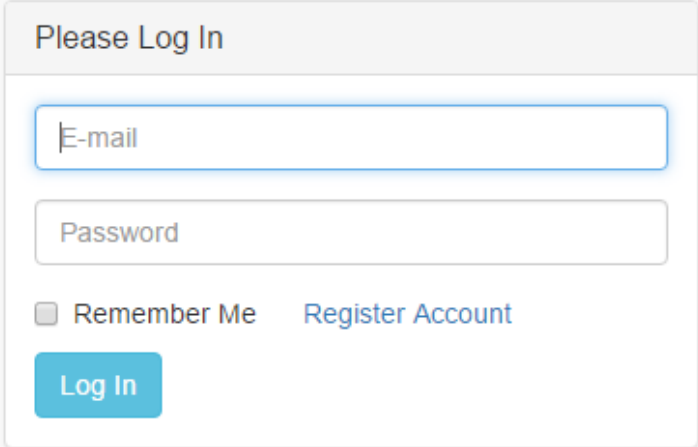
- Full Name
- E-mail
- Password
- Address
- Phone Number
- Age
- Gender:  Male  Female  Others
- Registration button

Figure 4.2: Registration page

**Description:** This is the registration page for E-Health Care system and Online Pharmacy. In the middle part the registration process is given. If a person fills the form and submits, then he or she becomes a patient of the site. Then he/she get a valid id and password to enter his/her user page.

### 4.2.3 Login Page

The Login page of the E-Health Care system and Online Pharmacy is shown in figure 4.3



The image shows a login form titled "Please Log In". It contains two input fields: "E-mail" and "Password". Below the fields, there is a checkbox labeled "Remember Me" and a link labeled "Register Account". At the bottom of the form is a blue button labeled "Log In".

Figure 4.3: Login page

**Description:** This is the login page for the E-Health Care system and Online Pharmacy. In the middle part a form for login. Patient fill up the form with registered email address and valid password which is used at registration. If the patient does not register a account then he/she click in below link which is shown as Register Account. [5]

#### 4.2.4 Patient Home Page

The patient's home page of the E-Health Care system and Online Pharmacy is shown in figure 4.4

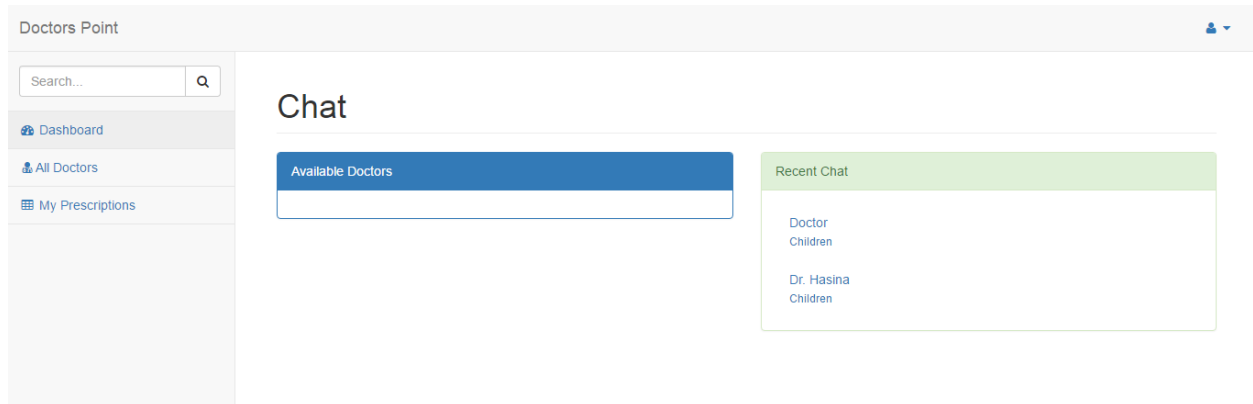


Figure 4.4: Patient's home page

**Description:** This is the patient's home page for the E-Health Care system and Online Pharmacy. In the left side of the view, the dashboard is given. If a patient clicks any point, then he/she moves to another section. In the middle of the view there are two panels. Left one is for available doctor that means if any doctor want to prescribe their name and details will show there. And on the other panel Recent Chat here will show patient chatted previous time. In the top left side show a hidden point here is view of the patient details. [5]

## 4.2.5 Patient Chat Page

The Patient's chat page of the E-Health Care system and Online Pharmacy is shown in figure 4.5

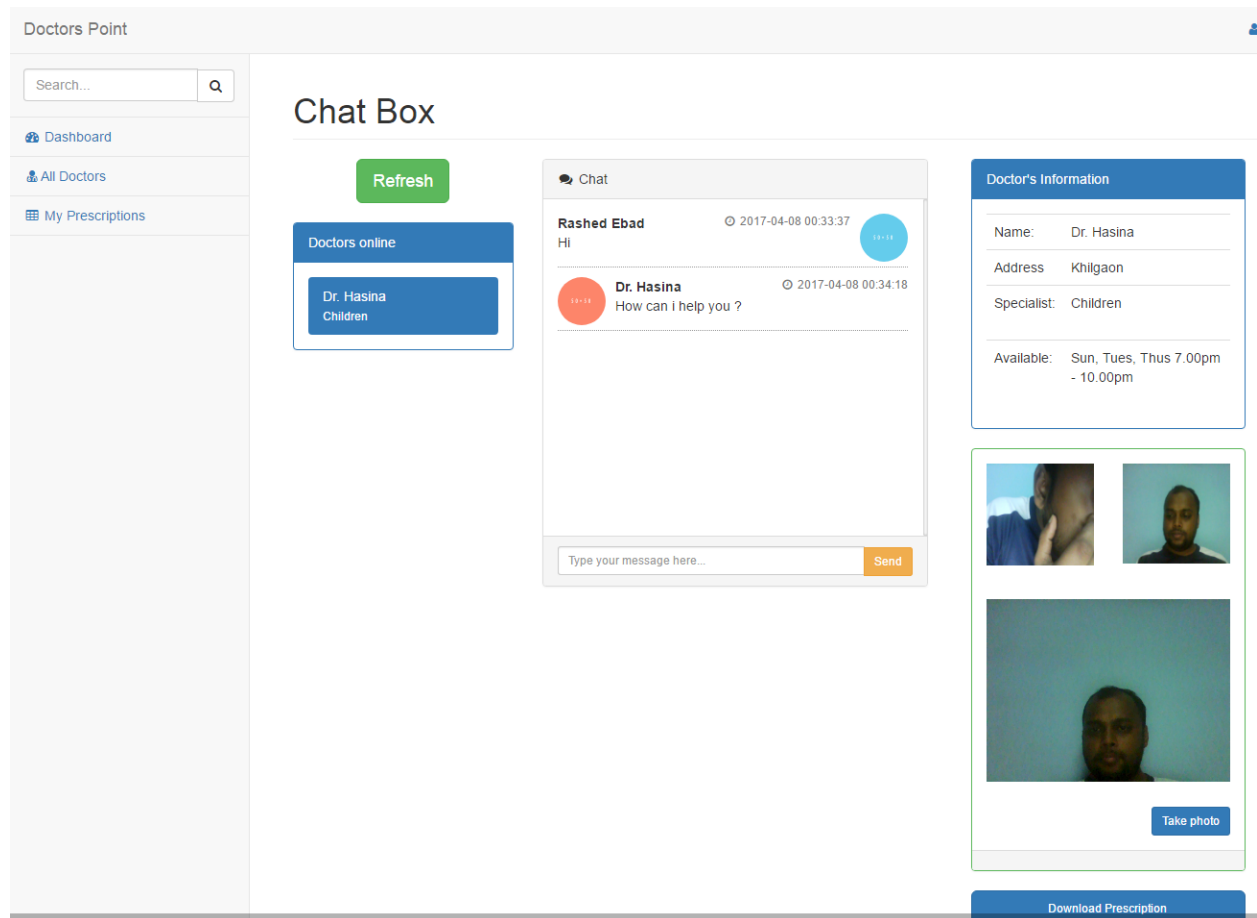
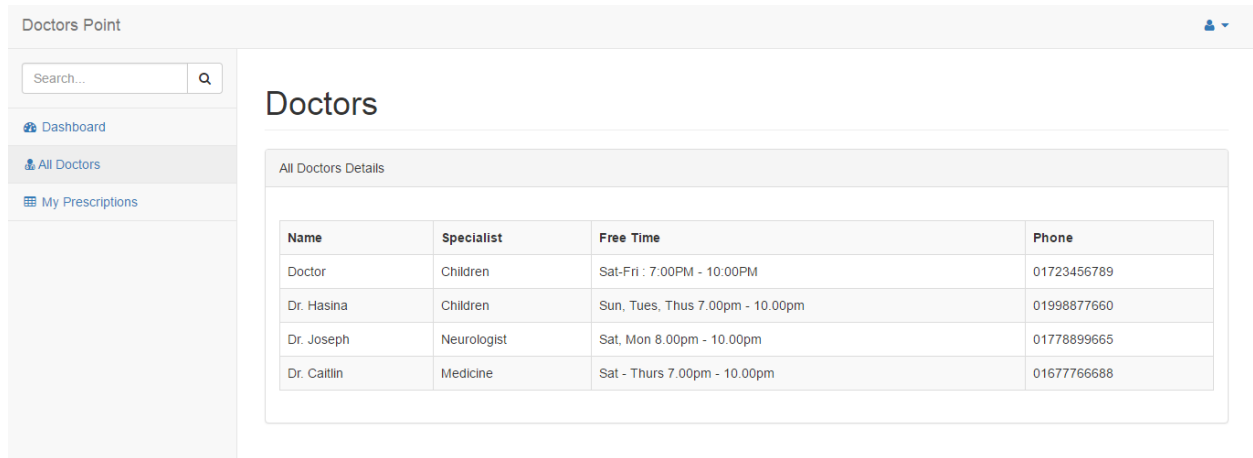


Figure 4.5: Patient's chat page

**Description:** This is the patient chat page for the E-Health Care system and Online Pharmacy. In the left side of the view, the dashboard is given. In the right there are six panels. In the left upper corner a refresh button when there any problem to chat then press this. In button bottom there showing the doctors list who are available now. In the middle a chat panel here can chat with doctors. On the right top corner of the view here showing the information of doctors who is chatting with patient now. Below the doctor's information here is the view of images which is sent to the doctor and next image can send by clicking the button. In the bottom it's a button for downloading prescription. If doctor send a prescription this button will show otherwise it will hidden. [5]

## 4.2.6 View All Doctors for Patient

The view all doctors of the E-Health Care system and Online Pharmacy is shown in figure 4.6



The screenshot displays the 'Doctors Point' web application. On the left is a sidebar with a search bar and navigation links for 'Dashboard', 'All Doctors', and 'My Prescriptions'. The main content area is titled 'Doctors' and contains a table labeled 'All Doctors Details'. The table lists four doctors with their names, specialties, free times, and phone numbers.

Name	Specialist	Free Time	Phone
Doctor	Children	Sat-Fri : 7:00PM - 10:00PM	01723456789
Dr. Hasina	Children	Sun, Tues, Thus 7.00pm - 10.00pm	01998877660
Dr. Joseph	Neurologist	Sat, Mon 8.00pm - 10.00pm	01778899665
Dr. Caitlin	Medicine	Sat - Thurs 7.00pm - 10.00pm	01677766688

Figure 4.6: All Doctors for Patient

**Description:** This is the view of all doctors list for patient for the E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. And right side view of all doctors list who are registered in this site. All registered doctors information will show in this table. [5]



## 4.2.7 Patient Profile Update

The Patient Profile Update page of the E-Health Care system and Online Pharmacy system is shown in figure 4.7

The screenshot shows a web interface for 'Doctors Point'. On the left is a sidebar with a search bar and three menu items: 'Dashboard', 'All Doctors', and 'My Prescriptions'. The main content area is titled 'Update Your Information' and contains the following fields:

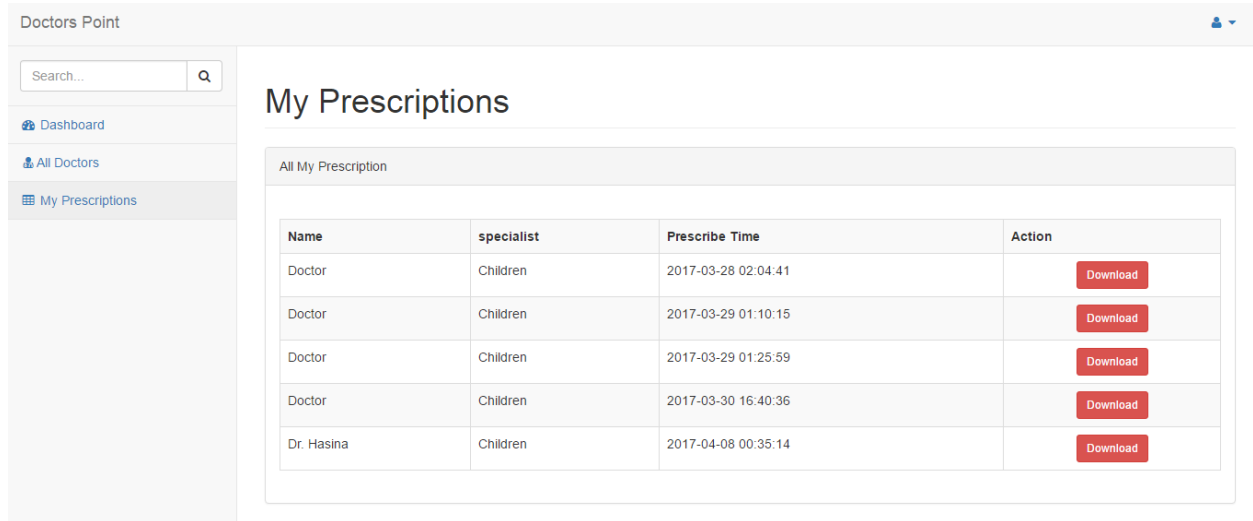
- Full Name:** A text input field with the placeholder 'Enter Your Fullname'.
- Email:** A text input field with the placeholder 'Enter Your Email'.
- Reset Password:** A text input field with the placeholder 'Enter Password'.
- Address:** A text input field with the placeholder 'Enter Your Address'.
- Phone:** A text input field with the placeholder 'Enter Your Address'.
- Age:** A text input field with the placeholder 'Enter Your Address'.
- Gender:** A text input field with the placeholder 'Enter Your Address'.

Figure 4.7: Patient Profile Update

**Description:** This is the Patient Profile Update page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. A Patient Profile Update page shows the profile updating lists.

## 4.2.8 Patient All Prescriptions

The Patient's All Prescriptions of the E-Health Care system and Online Pharmacy system is shown in figure 4.8



Doctors Point

Search...

Dashboard

All Doctors

My Prescriptions

### My Prescriptions

All My Prescription

Name	specialist	Prescribe Time	Action
Doctor	Children	2017-03-28 02:04:41	Download
Doctor	Children	2017-03-29 01:10:15	Download
Doctor	Children	2017-03-29 01:25:59	Download
Doctor	Children	2017-03-30 16:40:36	Download
Dr. Hasina	Children	2017-04-08 00:35:14	Download

Figure 4.8: Patient's All Prescriptions

**Description:** This is the Patient's All Prescriptions for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. My Prescription page shows all the prescriptions of patient which are prescribed by the doctors.

## 4.2.9 Doctor's Home Page

The Doctor's Home Page of the E-Health Care system and Online Pharmacy system is shown in figure 4.9



Figure 4.9: Doctor's Home Page

**Description:** This is the Doctor's Home Page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. And in the right side of the view is showing doctor's patient who are chatted with doctors. In the top left corner here the view of doctor's name, profile settings option and logout option.

## 4.2.10 Doctor's Chat Page

The Doctor's Chat page of the E-Health Care system and Online Pharmacy system is shown in figure 4.10

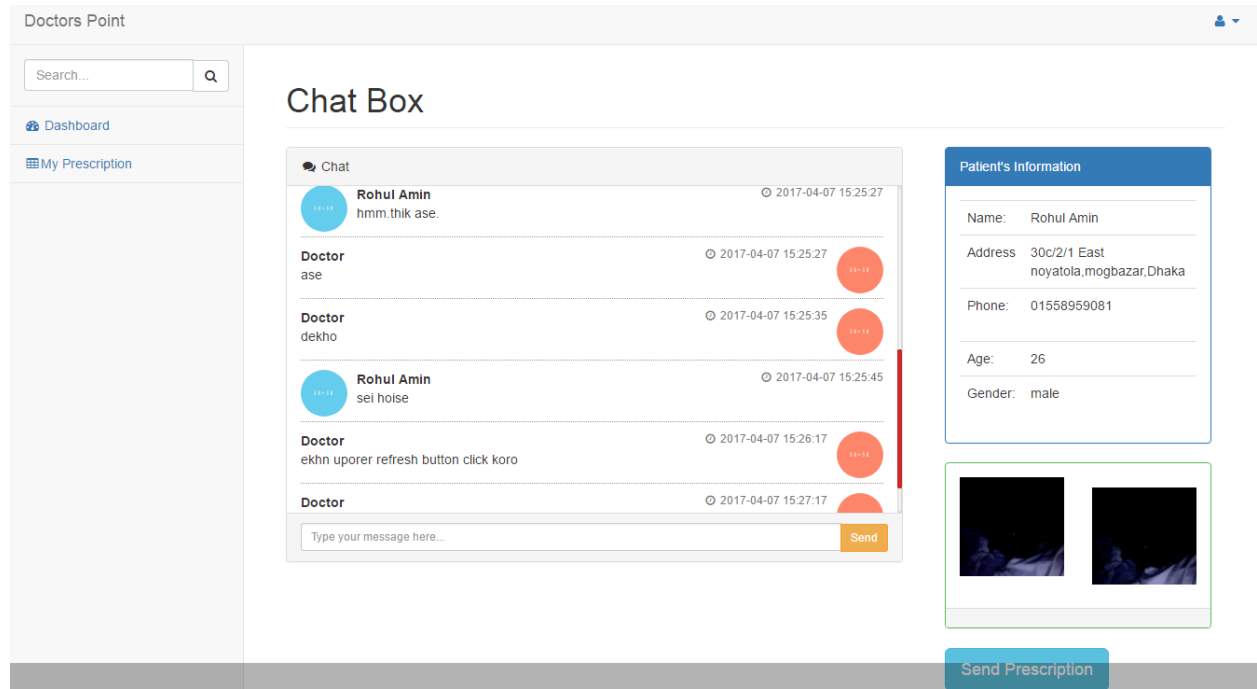


Figure 4.10: Doctor's Chat page

**Description:** This is the Doctor's Chat page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. In the right side of the view chatting panel and more right side Patient's Information and Photos of patient which are sent by patient for discussing about symptoms. And below the photos a button for sending prescription. If click the button a window will open for text writing.

#### 4.2.11 Doctor's Prescription Page

The Doctor's Prescription page of the E-Health Care system and Online Pharmacy system is shown in figure 4.11

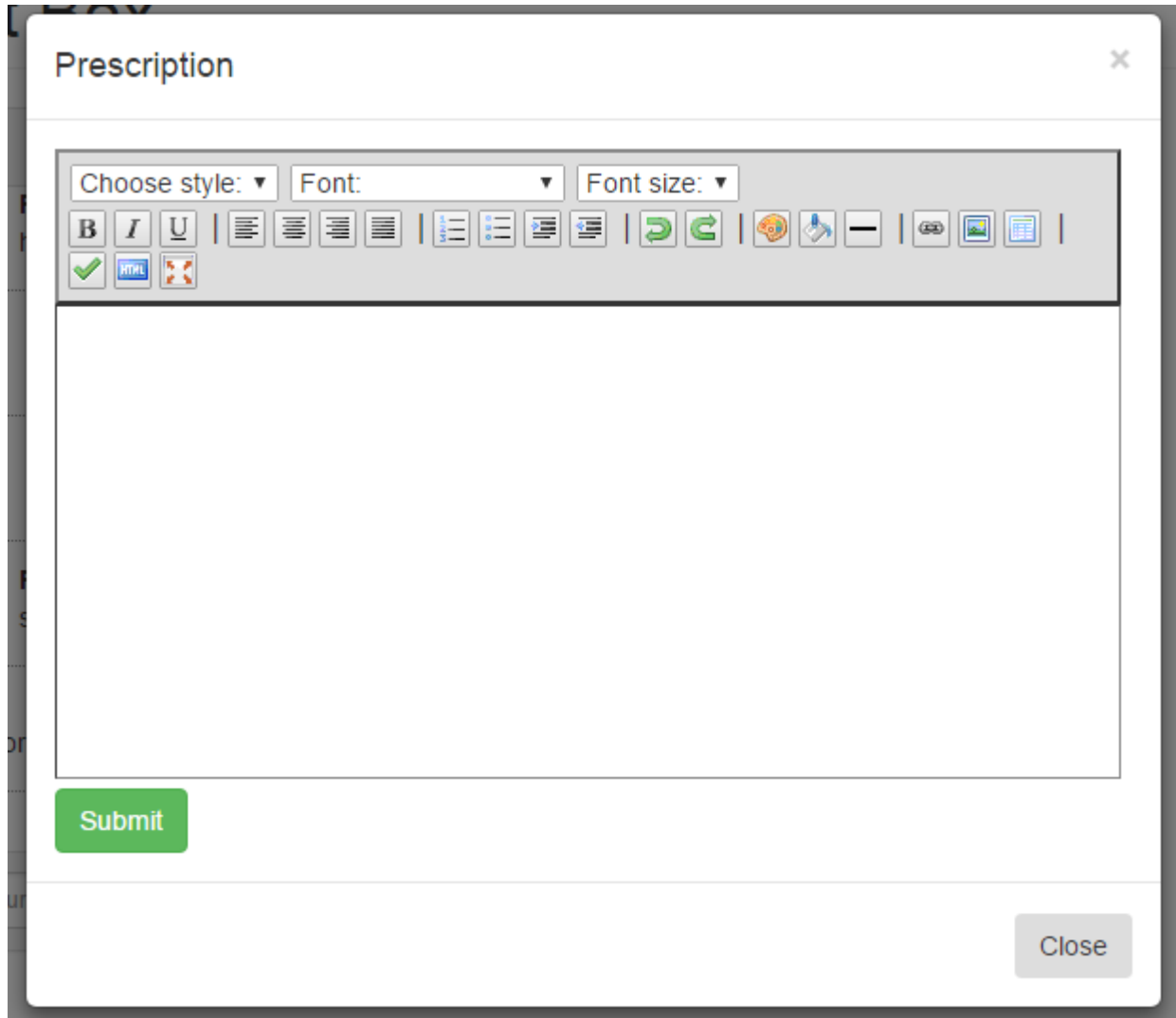


Figure 4.11: Doctor's Prescription page

**Description:** This is the doctor's prescription page for E-Health Care system and Online Pharmacy system. If click the "Send Prescription" button then open a window. Then type medicine name and other information. After clicking submit button then it will send on patient page. If don't want send prescription have close button for cancel.

## 4.2.12 Doctor's Prescription List Page

The Doctor's Prescription List Page of the E-Health Care system and Online Pharmacy system is shown in figure 4.12

Doctors Point

Search...

Dashboard

My Prescription

### My Prescriptions

All My Prescription

Name	Age	Gender	Prescribe Time	Action
Rashed Ebad	25	male	2017-03-17 20:42:16	<a href="#">Download</a>
Rashed Ebad	25	male	2017-03-18 17:46:00	<a href="#">Download</a>
Rashed Ebad	25	male	2017-03-18 17:57:43	<a href="#">Download</a>
Rashed Ebad	25	male	2017-03-18 18:01:04	<a href="#">Download</a>
Rashed Ebad	25	male	2017-03-28 02:03:58	<a href="#">Download</a>
Rashed Ebad	25	male	2017-03-28 02:04:41	<a href="#">Download</a>
Rashed Ebad	25	male	2017-03-28 13:58:26	<a href="#">Download</a>

Figure 4.12: Doctor's Prescription List Page

**Description:** This is the Doctor's Prescription List Page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. In the right side of the view, have a table. Here all prescription of the doctor which are sending by him/her to the patient. Table contains patient information and download button for prescription download.

## 4.2.13 Admin's Home Page

The admin's home page of the E-Health Care system and Online Pharmacy system is shown in figure 4.13

The screenshot displays the Admin's Home Page. On the left is a sidebar menu for 'Doctors Point' with a search bar and navigation links for Dashboard, Doctors Prescription, Doctors, Patient, and Admin. The main content area is divided into two sections: 'Doctors Details' and 'Patient Details'. The 'Doctors Details' section contains a table with columns for Name, Specialist, Free Time, and Phone, listing two doctors. The 'Patient Details' section contains a table with columns for Name, Age, Gender, and Phone, listing five patients.

### Doctors Details

Name	Specialist	Free Time	Phone
Doctor	Children	Sat-Fri : 7:00PM - 10:00PM	01723456789
Dr. Hasina	Eye Specialist	Sun, Tues, Thus 7.00pm - 10.00pm	01889977665

### Patient Details

Name	Age	Gender	Phone
Rashed Ebad	25	male	123
Shobu	24	male	0167111000
Hamid	12	male	00111999222
Rohul Amin	26	male	01558959081
tanjir	24	male	+8801674452286

Figure 4.13: Admin's Home page

**Description:** This is the admin's home page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. In the right side of the view Doctors Details and Patient Details. All registered doctors information will show on this page and all also registered patient.

## 4.2.14 View All Prescriptions Page

The all prescriptions page of the E-Health Care system and Online Pharmacy system is shown in figure 4.14

Doctors Point

Search...

Dashboard

Doctors Prescription

Doctors

Patient

Admin

### Prescription

All Prescriptions

Name	Specialist	Prescribe Time	Action
Doctor	Children	2017-03-17 20:42:16	Download
Doctor	Children	2017-03-18 17:46:00	Download
Doctor	Children	2017-03-18 17:57:43	Download
Doctor	Children	2017-03-18 18:01:04	Download
Doctor	Children	2017-03-28 02:03:58	Download
Doctor	Children	2017-03-28 02:04:41	Download
Doctor	Children	2017-03-28 13:58:26	Download

chatroom.doctorspoint.info/home.php

Figure 4.14: All Prescriptions Page

**Description:** This is the Admin's view all prescription page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. An Admin can see all prescriptions which are prescribed by the doctors with date and time. Have a download button for downloading those prescriptions.



#### 4.2.15 Doctor's Information Show Page

The doctor's information show page of the E-Health Care system and Online Pharmacy system is shown in figure 4.15

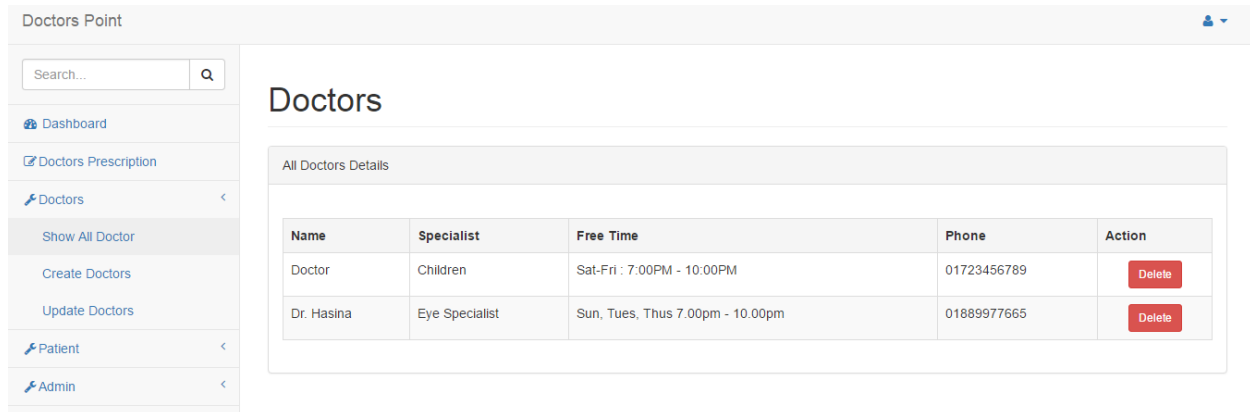


Figure 4.15: Doctor's Information show page

**Description:** This is the doctors information show page for admin for the E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. Admin can show all registered doctors list and can delete with delete button.

#### 4.2.16 Doctor's Information Update Page

The doctor's information update page of the E-Health Care system and Online Pharmacy system is shown in figure 4.16

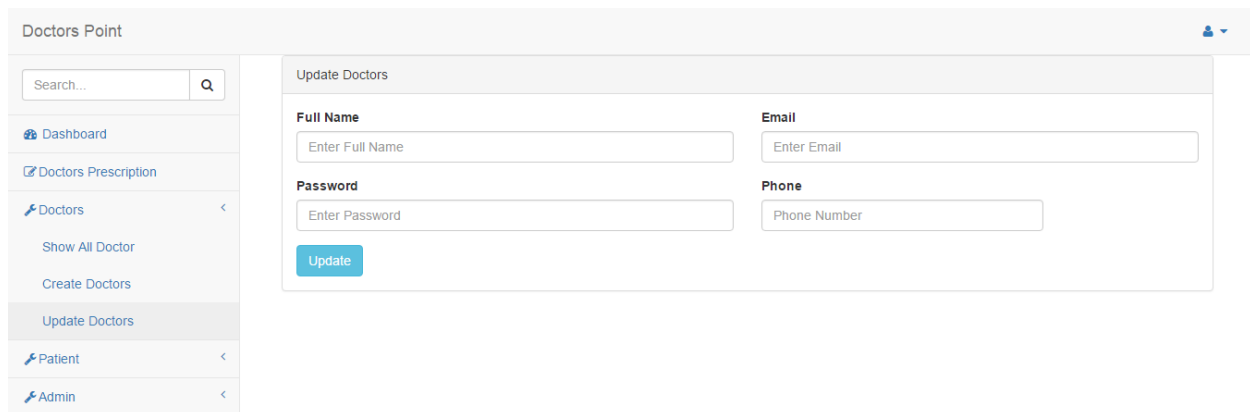


Figure 4.16: Doctor's Information Update Page

**Description:** This is the doctor's information update page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. An admin can update doctors information.

## 4.2.17 Create Doctor Page

The Create Doctor page of the E-Health Care system and Online Pharmacy system is shown in figure 4.17

The screenshot shows a web application interface for 'Doctors Point'. On the left is a sidebar with a search bar and navigation links: Dashboard, Doctors Prescription, Doctors (with a sub-link 'Show All Doctor'), Create Doctors (highlighted), Update Doctors, Patient, and Admin. The main content area is titled 'Create Doctors' and contains a form titled 'Create Doctor'. The form has the following fields: Full Name (text input), Email (text input), Password (text input), Address (text input), Phone (text input), Specialist (text input with 'Specialist' as a placeholder), and Freetime (text input with 'Enter Your Freetime' as a placeholder). A blue 'Create' button is located at the bottom left of the form.

Figure 4.17: Create Doctor Page

**Description:** This is the Admin's create doctor page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. In the right of the view, If admin need to create a doctor here can do this.

## 4.2.18 Admin Patient control Pages

The Administration's patient control pages of the E-Health Care system and Online Pharmacy system is shown in figure 4.18- 4.19.

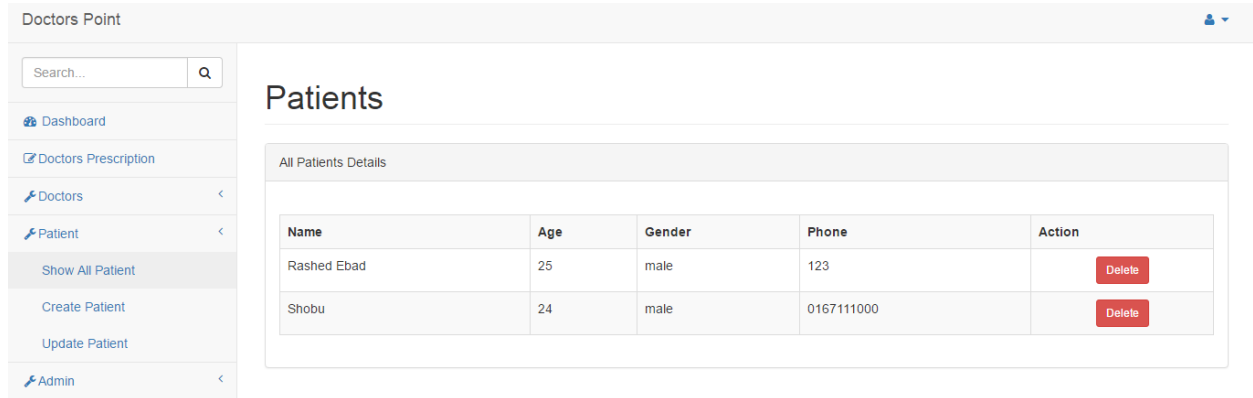


Figure 4.18: Admin patient's delete page

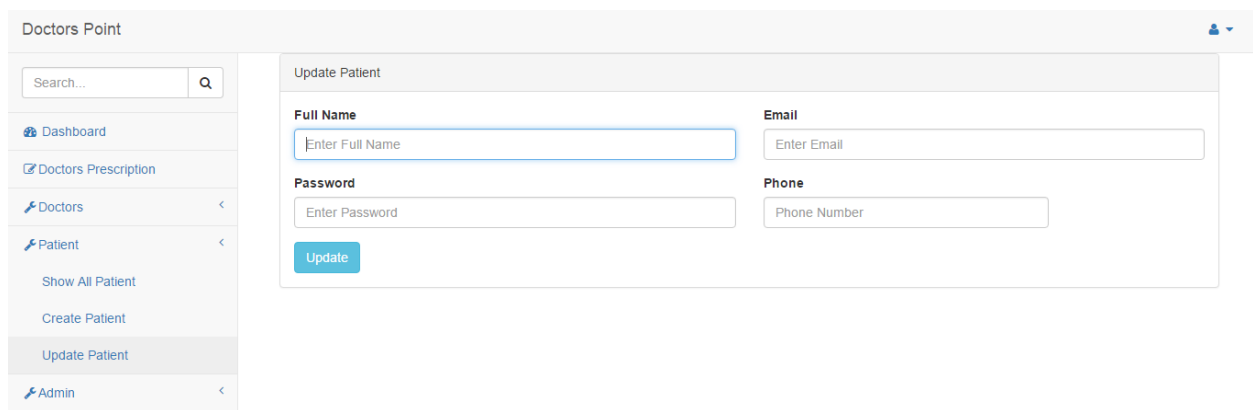


Figure 4.19: Admin patient's update page

**Description:** This is the Administration's patient control pages for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. An admin can perform all the necessary action for the patient if the admin need to control the selected patient.

## 4.2.19 Admin Category Control

The Administration's Medicine Category control page of the E-Health Care system and Online Pharmacy system is shown in figure 4.20

Doctors Point [Visit Site](#) [Account](#)




Category Name	Category Image	Action
Tablets		EDIT   DELETE Sub-Category
Capsules		EDIT   DELETE Sub-Category
Syrup		EDIT   DELETE Sub-Category

Figure 4.20: Admin Medicine Category Control

**Description:** This is the Admin Medicine Category Control page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. An admin can perform all the necessary action for the category lists if the admin need to control the selected user.

## 4.2.20 Admin Adding Category

The Administration's Category adding page of the E-Health Care system and Online Pharmacy system is shown in figure 4.21

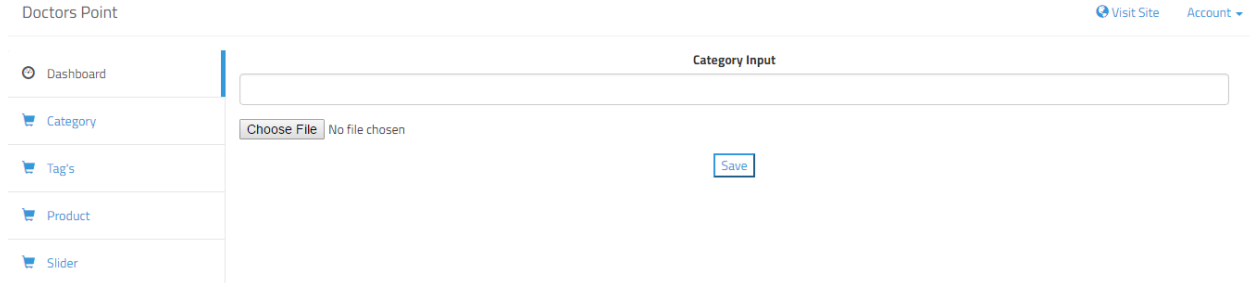
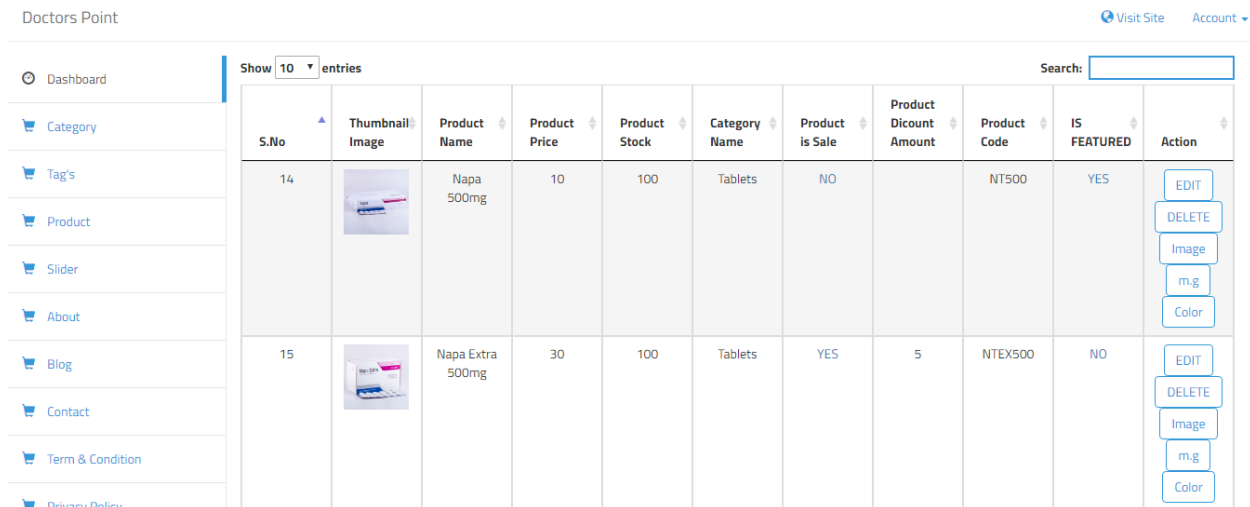


Figure 4.21: Admin Category Control

**Description:** This is the Admin Category adding page for E-Health Care system and Online Pharmacy system. In the left side of the view, the dashboard is given. An admin can add a category if the admin think this is necessary to add in the E-Health Care system and Online Pharmacy.

## 4.2.21 Admin Medicine Products Control

The Administration's Medicine products control page of the E-Health Care system and Online Pharmacy system is shown in figure 4.22





S.No	Thumbnail Image	Product Name	Product Price	Product Stock	Category Name	Product is Sale	Product Discount Amount	Product Code	IS FEATURED	Action
14		Napa 500mg	10	100	Tablets	NO		NT500	YES	<a href="#">EDIT</a> <a href="#">DELETE</a> <a href="#">Image</a> <a href="#">m.g</a> <a href="#">Color</a>
15		Napa Extra 500mg	30	100	Tablets	YES	5	NTEX500	NO	<a href="#">EDIT</a> <a href="#">DELETE</a> <a href="#">Image</a> <a href="#">m.g</a> <a href="#">Color</a>

Figure 4.22: Admin Medicine products control

**Description:** This is the Administration's medicine products control page for E-Health Care and Online Pharmacy system. In the left side of the view, the dashboard is given. An admin can perform all the necessary action for the medicine. Admin can set price, quantity and picture. Admin can set discount.

# Chapter 5

## Conclusion and Future Work

### 5.1 Conclusion

Bangladesh is a developing country. Many developing countries are using information communication technology for different sector such as health care sector. In our country online health care service is popular to almost all people. But the efficiency of searching a patient from a good health care system and the proper effectiveness of web application is not properly done. Through the developed project, anyone can visualize the effectiveness and efficiency in the real life. It is very helpful for computerization or doing automation of a personal information management system. This program helps reduce the manual method and stress which is done by a person and that is time consuming and lengthy process. Nothing taste good than solving your problem from distance rather than rushing down to a specific point for the problem to be solved. With this application user's information are stored very efficiently in a secured database. Trend of information improvement in the generation has improved the quality and services of human operation just as the case of this application for health care services has reduce the mobility rate of human and improve their standard of database storage.

### 5.2 Future Work

The future plan of this project is to improved design; implementation and documentation in such a way that anyone can use this project for better perform. I will develop the site more dynamically. In future I will add the following module for better improvement of the project:

- Online Account verification.
- Chatting more easily with using voice chat and video chat.
- Mobile version of the existing Health Care.
- Add Online Payment Methods.

## References

[1] [http://www.w3schools.com/htmL/html\\_basic.asp](http://www.w3schools.com/htmL/html_basic.asp), April 13, 2017

[2] <http://www.php.net>, PHP: Hypertext Preprocessor, April 13, 2017

[3] [http://www.codeigniter.com/user\\_guide/general/controllers.html](http://www.codeigniter.com/user_guide/general/controllers.html) April 13, 2017

[4] [http://benedmunds.com/ion\\_auth/](http://benedmunds.com/ion_auth/), January 5, 2017

[5] <http://all-free-download.com>, January 5, 2017