Doctor Bari-Easy To Get Treatment

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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 **"Doctor Bari-Easy To Get Treatment"**, submitted by **Kamrul Hasan**, ID No: **161-15-7257** and **Ashiq Raihan,** ID No: **161-15-6749** and **Km. Sazzadur Rahman,** ID No: **161-15-6780** 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 **7th December, 2019**.

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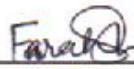

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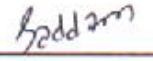

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We hereby declare that, this project has been done by us under the supervision of **Md. Montasir Bin Shams, Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has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

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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

The main purpose of the "**Doctor Bari-Easy To Get Treatment**" is making the solution people's complexity faced in hospital. The people faced many problems in hospital when they go to emergency service or meet a doctor for our treatment. In our project we want to solve people's complexity. In this project people can find best doctor and search from nearby his/her place. People can find the doctor by their category and they can get appointment their doctor whom they need. Then they come which time they book their appointment. For this appointment option people don't need to go hospital for their appointment. In our project pharmacist are update their available medicine. Sometime people cannot find their medicine which are need. In our project everybody can find which medicine available in which shop. Every medicine shop needed to register by the author. People can search easily doctor or medicine. In this project doctor need to register because people can find them. Here everybody can find blood donner for themselves. Everybody can talk with doctor by online process. Pharmacist can update their medicine status. Overall people can find here everything they need in a hospital. This project is helpful for civilian. This project save time for everyone when they need to hospital service and save time for search a medicine. To build this project we use LARAVEL framework(MVC) and also use PHP, html, CSS, BOOTSTARP etc.

TABLE OF CONTENTS

CHAPTER 1

INTRODUCTION

In our day to day life, getting a doctor's appointment is a very important work. For that, a patient normally has to go to a hospital, check if any doctor is available, make appointment and wait until it's their turn. But in a busy everyday life, that is time consuming for everyone. Besides, when a patient needs any medicine, they have to go from pharmacy to pharmacy until they find the desired medicine. That too is a time and energy consuming process. In order to save time and energy of the patients, and reduce all the hassle in the process, a system that has all the information of the doctors and medicines is nothing but a gift. Besides in this day of information and technology, everything is expecte3d to be easily accessible and information should be available to the people. For this a web application is proposed that provides all the information needed to make doctors' appointments and know where to find a suitable doctor or a desired medicine.

1.1 Overview

The web application is designed in such a way that it reduces the manual work of the users. This gives a competitive advantage against the systems that are already available at present. With a system that manages the information automatically, the process not just becomes easier and more flexible but also hassle free and affordable.

In order to build the system that can provide multiple features, we need to consider that there will be multiple types of users. Firstly the patients are the non-resisted users. They can search for doctors and medicines and make appointments. Patients don't need to be login to the system to use it. But they must provide enough information to make an appointment. However, doctors and pharmacists are users how must be registered to the system. They will have their profile in the system. Doctors need a profile that can be viewed by the patients. And the pharmacists need to be registered so that they can manage medicine information in the database that are search by the patients.

The automated system provides information to the users that makes the whole process faster that the manual conventional process. The database contains all the information that are available to the users with appropriate authentication level.

1.2 Project Objectives

The main objective of this project is build can web application that can help patients communicate with doctors and pharmacist. Here the database management is done following the CRUD principle.

This application is a medical portal with the purpose of creating a better and more efficient and user friendly system for the users.

1.3 Organization

In Chapter 1 , we presented and overview and the objectives of the system.

In Chapter 2, we present here about background in our project.

In Chapter 3, we describe our project methodology about design, implementation, verification and maintenance.

In Chapter 4, we talking about feasibility.

In Chapter 5, we talking about system design and show use case diagram, flowchart for our project.

In Chapter 6, we are taking about database design and show our database.

In Chapter 7, we are talking about our frontend design in our project.

In Reference, we tried to show all references

1.4 Definitions

Responsive website: A responsive website is a website that response in every device. It is automatically adjusting every type of device. Suppose in desktop we can see a large screen but in a mobile we cannot see a large screen like desktop screen. In this case a responsive website adjusts the screen size.

Authentication: Authentication is a security process. It is worry about which process will permitted to do anything. It is about our project security. In example we can see Facebook two factor authentication.

SMTP server: It is a mail delivery system. It is a machine which take care of all email we send to a software or client server. It is configuring the whole email in a correct SMTP setting.

MVC frame work: MVC means Model View Controller. It contains many library function. We use this framework for our help of coding. It provides us many core languages which we need all time in a library function. So we did not write the core program.

Template: Template is predesigned document. It provides us a document which is not fulfill, it just an overview of a document. It is serve us a starting point of any document and we just edit this document and put the details in it.

User Interface (UI): The UI, or, more specifically in the case of web design, the Graphical User Interface (GUI) are the collection of elements which allow humans to interact with a website. The goal of a good GUI is the make interactions intuitive and simple. Though we typically think of things like navigation menus, buttons, toggles, etc. when it comes to the UI, the term can arguably also relate to the overall aesthetic experience including non-actionable elements.

CHAPTER 2

BACKGROUND

2.1 Introduction: Our project title is "Doctor Bari-Easy To Get Treatment" based on this project nature. In our project we can see so many doctor. That's why we can find our doctor for our diseases easily. We have also created an option to search medicine. The goal of our project is saving our time and complexity. In our project we can see doctor and their details so we chose the name "DOCTORBARI".

2.2 Project Summary: In our project first we create a title "Doctor Bari-Easy To Get Treatment". Then we create a home page which contain two search bar, one for search medicine and other for search the doctor. Home page contains also login and registration option for doctors. When we create this we are focus on graphical user interface. Because we can create a user friendly website. We put here a sub footer which contain about, blog, contact, FAQ etc.

Home: The home page contains the search option, login option for doctors, doctor list button, blood donner button, and some other things. Home page contain some feature such as

Project title

- Sing up/login
- Search bar
- Some option like doctors, blood donner etc.
- About
- Contact and some other thing

Doctor: In doctor section we can see the doctor list, Doctor details. Here we can get appointment of a doctor.

Medicine shop: Medicine shop contains the medicine status of the shop. Here we can see which medicine are available in which shop. In this option we think the best option. Because we waste a lot of time in finding some rare medicine.

Hospital: This option for the hospital. We can find hospital from this option. In this option we stored hospital list and some details of these hospitals.

Blog: The blog section for write and post the blogs and comments and getting testimonials. Here doctors can blog their successes of the action and various kinds of notices or talks for public are published here.

Contact: Contact section includes address, e-mail address, contact number, and website. Maps and little form included in this section to connect with the authority and users.

2.3 Scope of Problems:

- Finalize the cost
- The frame of the project
- Features
- Functions
- Tasks
- High level requirements
- Assumptions
- Constraints
- Inclusions
- Payments

2.4 Challenges: The most challenging thing in our project is doctor registration process. And their account creating. Another challenge is the medicine shop. The pharmacist has always update their medicine status.

CHAPTER 3

Methodology

In software engineering methodology is a framework that is used to control the structure, plan and process of a developing system. It is also known as software development life cycle. In life cycle software development work divided into some stages containing activities with the intent of better planning and management.

3.1 Software Process Model: To develop a software we need some planning. We need to choose system development life cycle. It makes our work easy. Every software model suggests a diagram model for our build process. In our project we also need a software model process model and we use a process model called Agile model. We choose this model based on our system nature. There are many software model is available but we use agile model.

3.2 Agile Model: In developing system there are a popular model "Waterfall Model" for its flexibility. But in this model we cannot go without complete the previous step. But in agile model we can do this type of operation. We can release a demo version of our project. Then we can develop again and again basis on customer review. Our project is helpful for our customer so we want to change or built it on customer choice. This is the cause we use agile model.

Here is the agile model diagram,

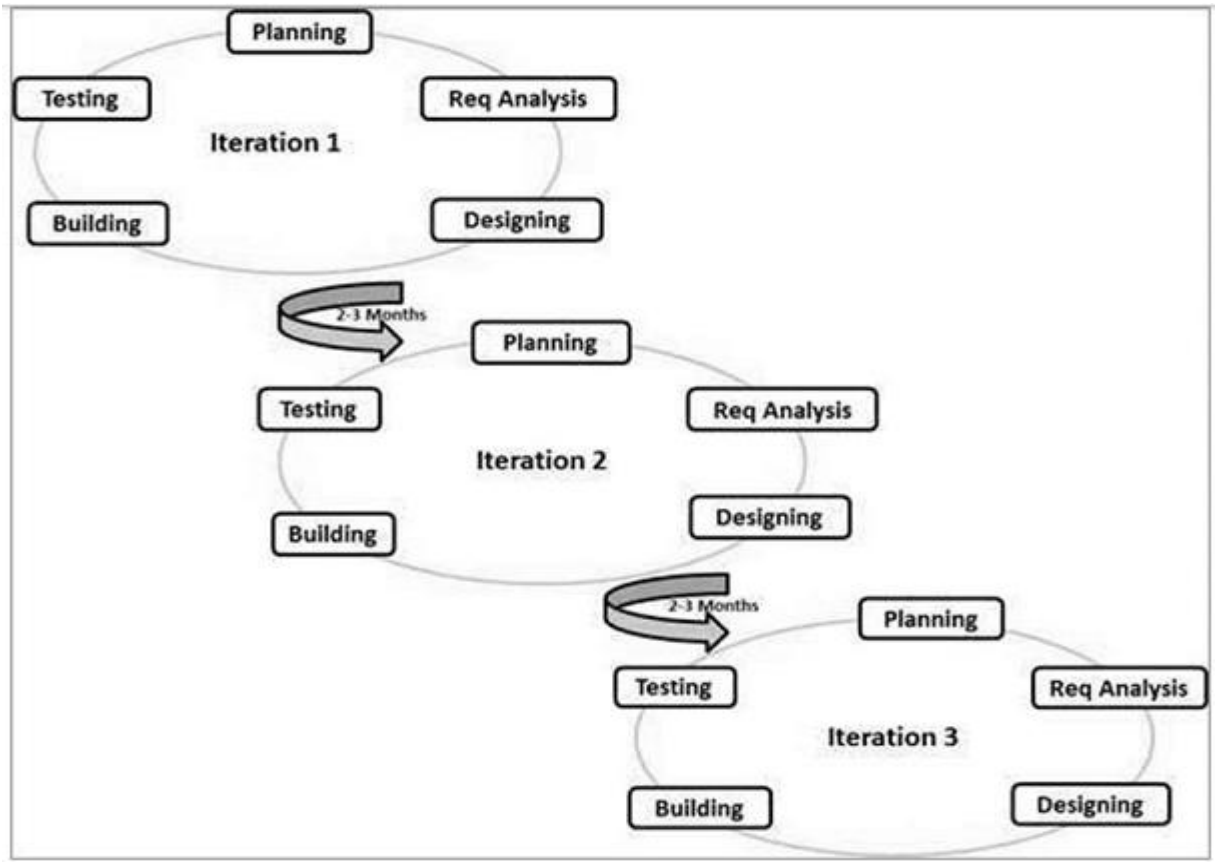

Figure3.1: Graphical illustration of the Agile Model

Requirement:

Requirement analysis is the most important process. Because it is the process to know what to do for our project. It would be the customer expectations or modified version of our project. Requirement analysis must be capable of being quantified. In engineering the requirement is known as specifications. It is very important for every project. It is maintaining the user a developer's communication and note the requirements. And determine the future expectation or other thing which need to change follow by a user or group of a user.

Design:

Design is the viewable part for the user. It cannot be a final design. If our requirement is changed then we can be change our design. It is a pattern which we can reuse and transform into a design which will user want. It is use to reach our goal which we want. In software design we faced many problem and we solve it in many ways.

Implementation:

After all our planning when we understand then we have to execute it and it is called implementation. Implementation is the process of developing our project. It executes everything like the design, idea, plan, programing and many other things. In computer science it is a technical specification which are execute on a program with algorithm and coding.

Verification:

It is the process of checking all the requirement are fulfilling or not or every conditions are satisfied or not. Here we check all the thing. We find the bug if have any in our project and then solve it, identify the errors, mistakes, missing conditions etc. Software verification methods are traditionally divided into white and black box testing.

Maintenance:

Maintenance is the process which will execute after the delivery the product. It is like as revision. If the user faces any problem, then we fix it. If they find some bug we have to solve it. It is all about the maintenance. The maintenance ensures that the solve all the problem find by the user.

3.3 Reason to Choose:

- It is self-motivated
- It bases on customer priority
- It establishes a short iteration
- It requires more interaction with customer
- And give more feed back

3.4 Developing Tools:

We develop our project on LARAVEL framework. We use PHP, HTML, CSS, JAVASCRIT, ajax, bootstrap in our project. These all are used for build a better web application.

OOP:

Object oriented programing use for sever. Here PHP is the OOP language. So we need a server for PHP and we use xampp for creating a server in my pc. Then we execute the PHP codes. It helps to organize data and creating object so that developers can work easily.

CHAPTER 4

Feasibility Study

The feasibility study of any development project is mainly intended to design and develop the proposed project and to decide whether the project under consideration will be viable or not after implementation. To come to result a web site is answered keeping the efficiency of the project and its impact on the web site which is developed. It main emphasis is on the following three questions elucidated below as:

- What are the user's requirements?
- What facilities are available in the proposed web site? Is it worth finding the user facilities?
- What is the likely impact of the proposed web site in this project? How does the proposed web site fit within the project?

Thus since the feasibility study may lead to assurance of large possessing, it becomes necessary that it should be directed competently and no primary errors of decision are made. Different types of feasibility study and the way we performed on our project "Doctor Bari – Easy To Get Treatment".

4.1 Technical Feasibility

Technical feasibility centers on the existing manual system of the test management process and to what extent it can support the project. According to feasibility analysis

procedure the technical feasibility of the web site is analyzed and the technical requirements such as project facilities, procedure, inputs are identified. It is also one of the important phases of the project development activities. The cost of charge can be reduced. Processing speed is very high and the work is reduced in the protection point of view administration associate that the project is operationally feasible.

4.2 Economic Feasibility

Economic analysis is most frequently used for evaluation of the effectiveness of the project. More commonly known as cost/benefit analysis the procedure is to determine the benefit and saving that are expected from a web site and compare it with costs, decisions is made to design and implement the project. This part of feasibility study gives the top management the economic justification for the new project. This is an important input to this project, because very often the top management does not like to get confounded by the various technicalities that bound to be associated with a project of this kind. A simple economic solution that gives the actual between of costs and benefits is much more significant in such cases. In this web site, the user is most satisfied by economic feasibility. Because, if the user uses this web site, it need not require any additional web site as well as it will be saving lot of time and money.

CHAPTER 5

SYSTEM DESIGN

System design is the process to build the architecture of the project. In this chapter we discuss about all the design how to create. Here we show the use case diagram and flow chart for our project. We are covering all requirements which are satisfied in our project.

5.1 Architectural Design

- User search our website in any web browser.
- This search requested to web server
- Then sever send the PHP data to user
- PHP code written by MVC framework this pattern

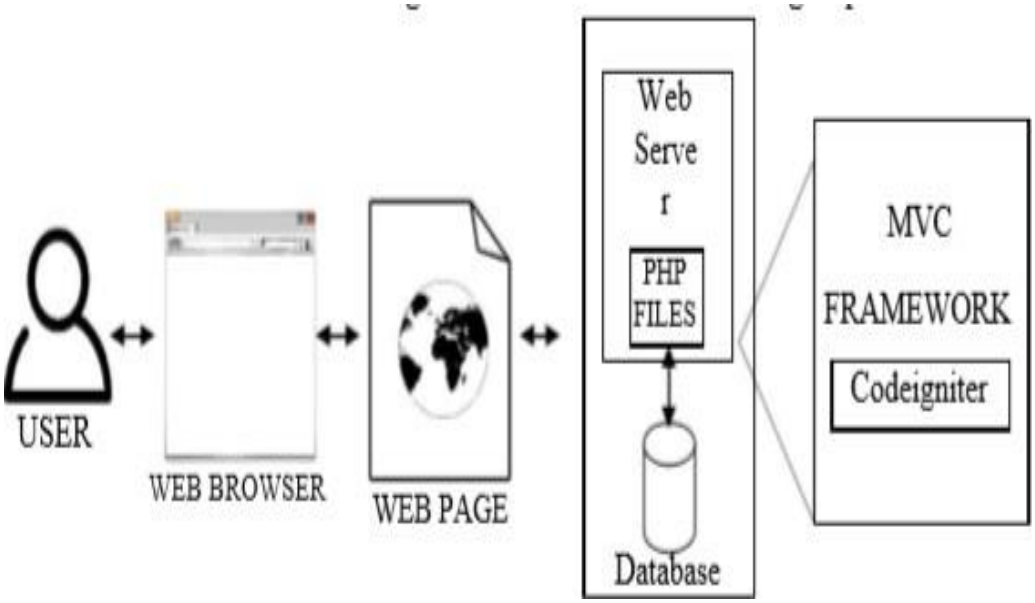

Figure 5.2: Architectural Design

5.2 Use Case Diagram

In use case diagrams the below figures shows that-

- Doctor, Pharmacist and patient is an actor.
- And the attributes are associated with actors.
- These attributes include some sub-attributes.
- Particular actors are associated with particular attributes.
- Admin is associated with all the attributes.
- That is why he get all the features of this application.

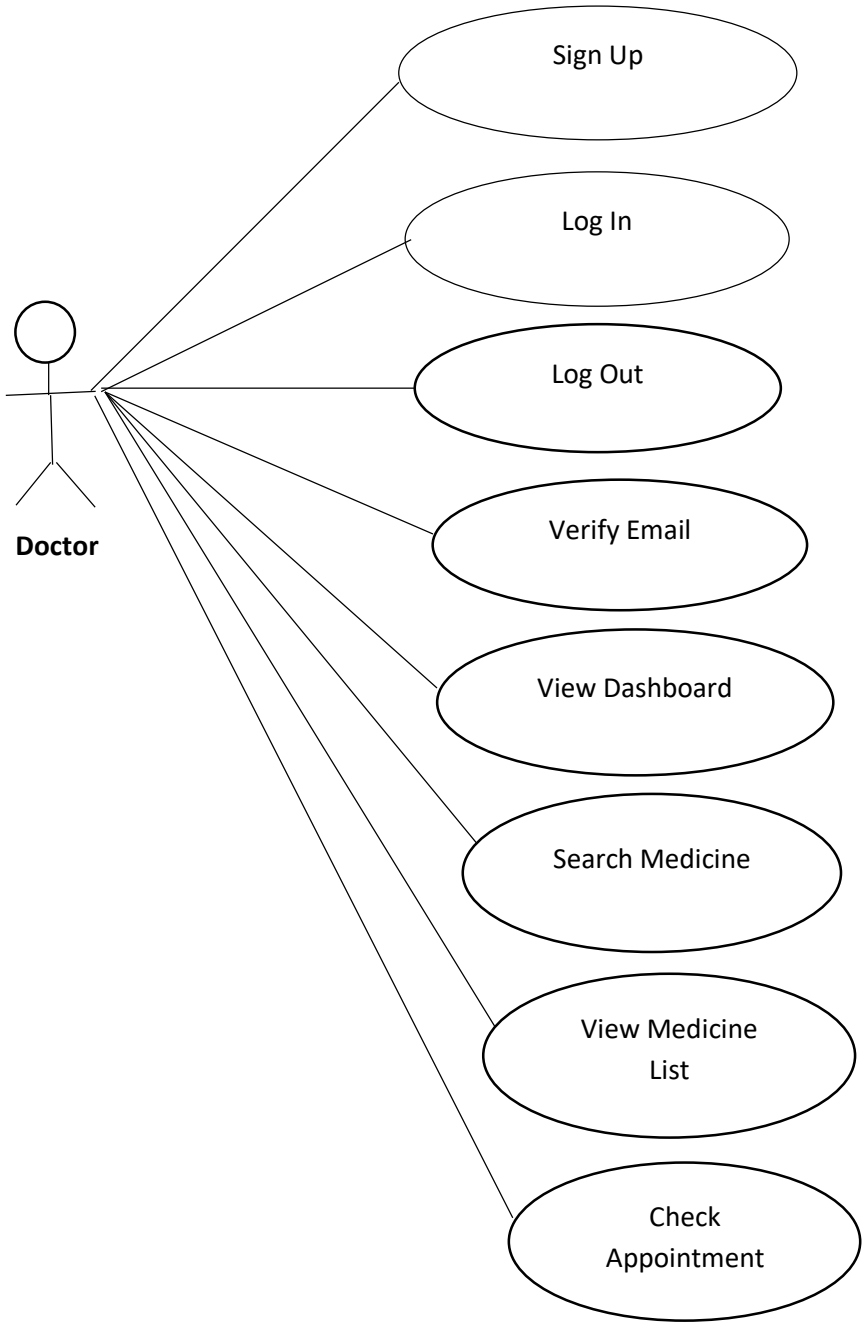

Figure 5.3: Use Case Diagram For Doctor

In this use case diagram Doctor is connect with Log In, Log Out, Verify Email, View Dashboard, Search Medicine, View Medicine List, Check Appointment process.

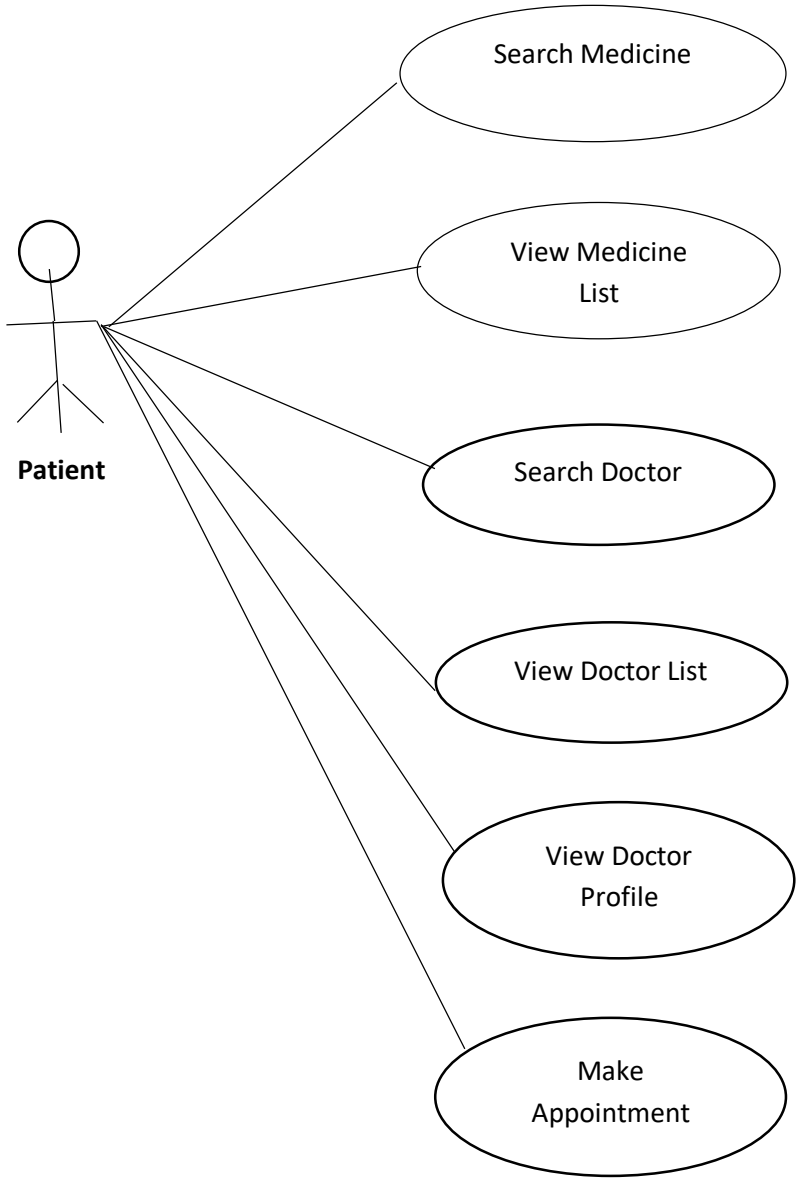

Figure 5.4: Use Case Diagram For Patient

In this use case diagram patient is corrected with search medicine, view medicine list, search doctor, view doctor list, view doctor profile make appointment process .

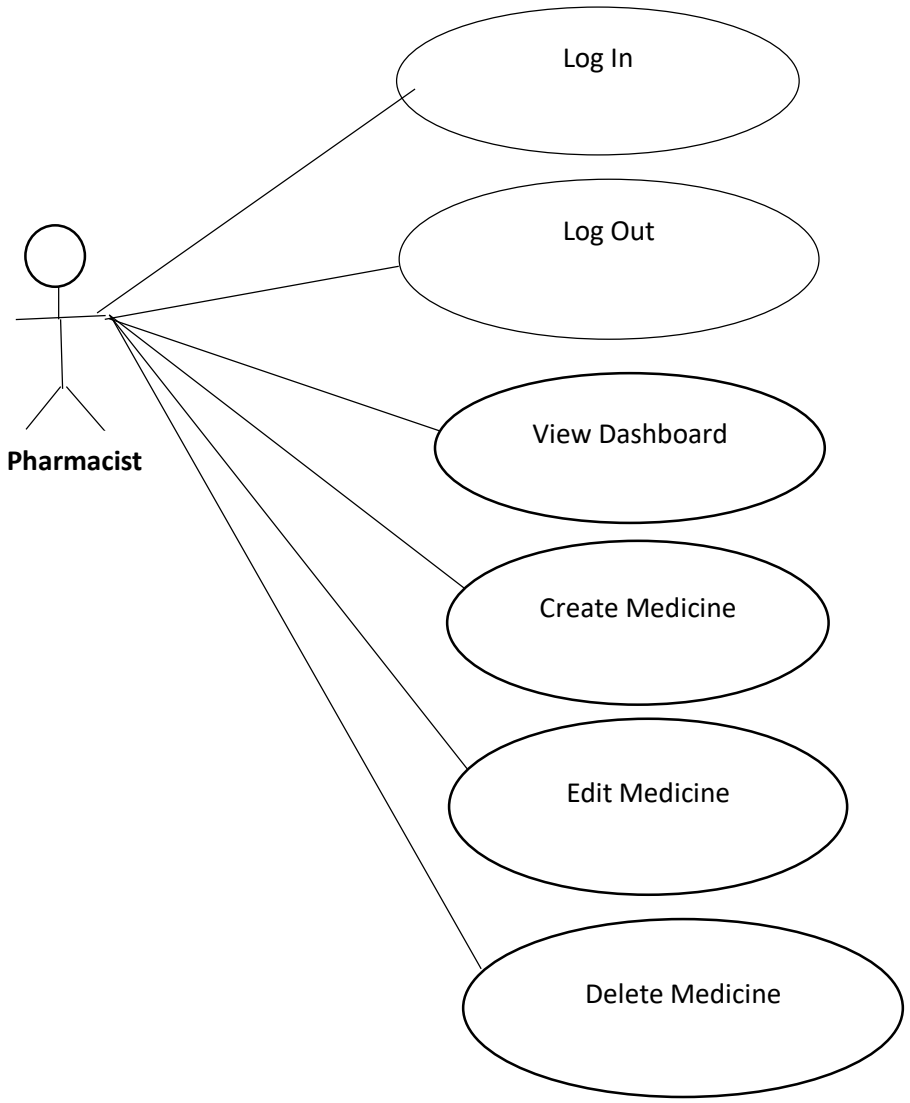

Figure 5.5: Use Case Diagram For Pharmacist

In this use case diagram patient is corrected with login, logout, view dashboard, create medicine, edit medicine, delete medicine process.

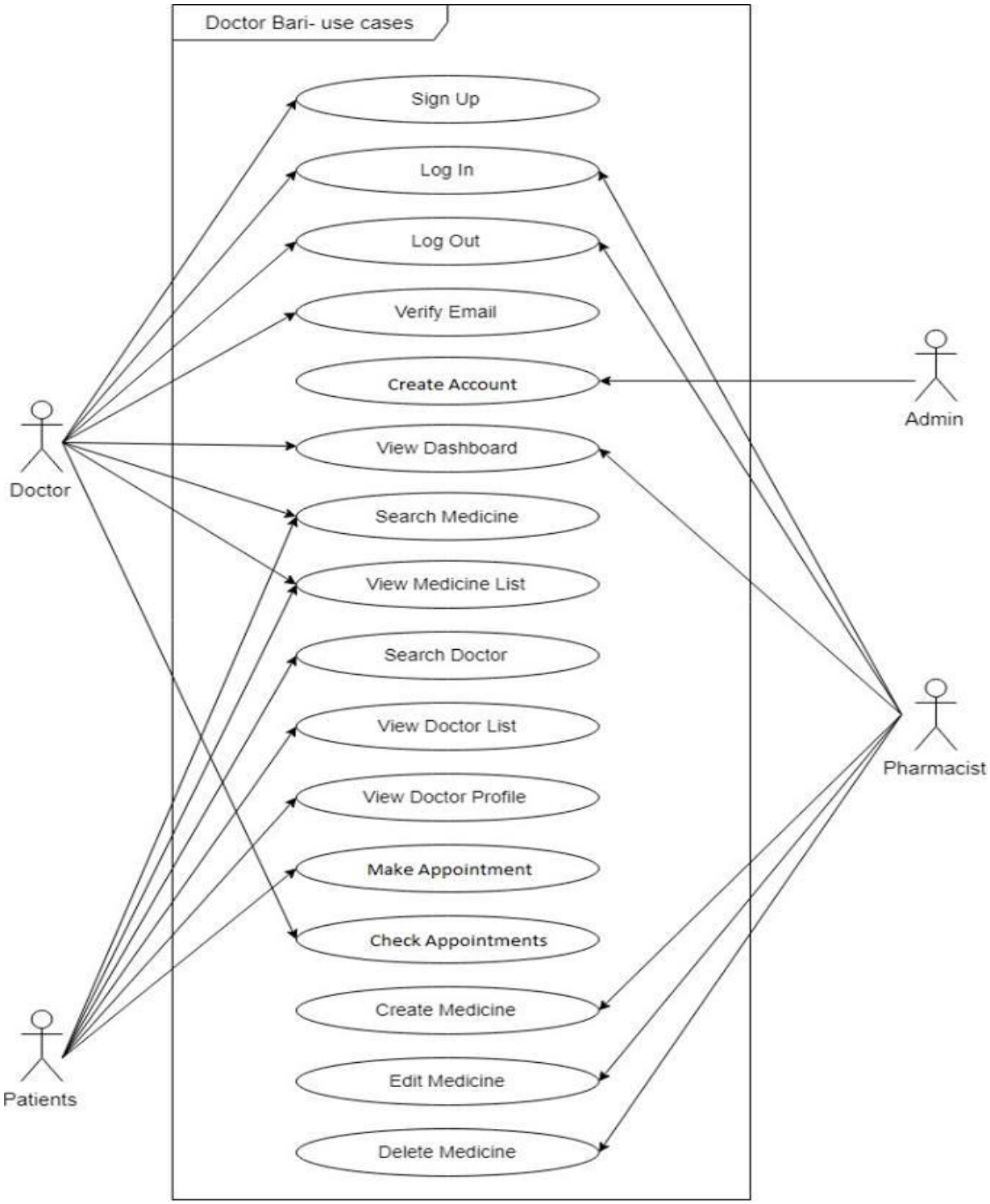

Figure 5.6: Use Case Diagram For Doctor Bari

In this use case diagram patient is corrected with all the attribute are connected with doctor, patient, pharmacies.

5.3 Flowchart

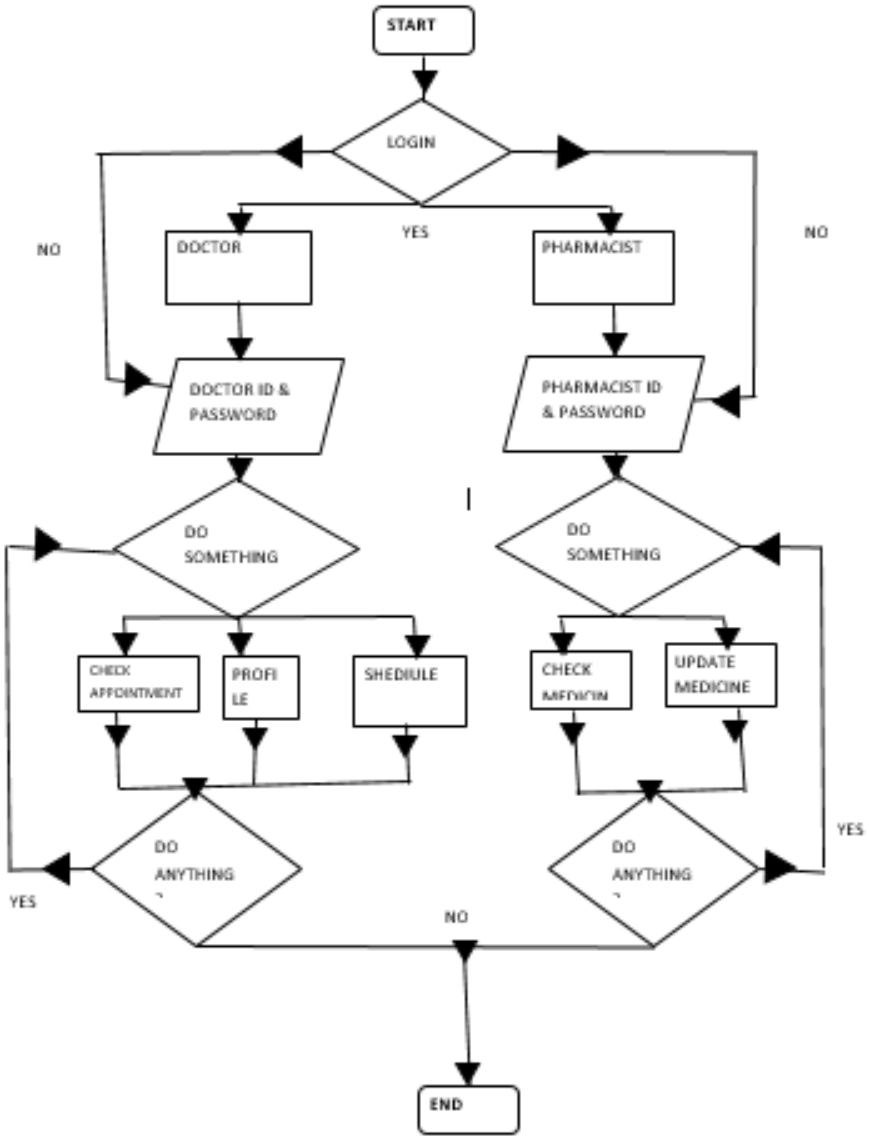

Figure 5.7: Flowchart For Doctor and Pharmacist

Figure 5.8: Flowchart For Patient

CHAPTER 6

DATABASE DESIGN

Database design is the process of producing a detail data model of database. This data model hold all the requirement logical and physical design option and physical storage parameters want to generate a design in a data decision language, which can then be used to made a database. A fully attributed data model holds through attributes for each entity.

A database collects and stores data in such organized way that data requirements are satisfied by the database**.** The common purpose is to make information entry easy, fast, cheap and flexible for the user**.** There are also some specific objectives like controller redundancy from failure, privacy, security and performance**.** A collection of relative records makes up a table**.** To graph and store data to the needed forms database tables are made**.**

6.1 Database Management System

A database management system (DBMS) is system software for manufacturing and leading databases. The DBMS shift users and programmers with a methodical way to make, restore, update and manage data. In our application we used MySQL.

6.2 MySQL

MySQL is the most popular open generation relational SQL database management system. MySQL is one of the best RDBMS being used for increasing web-based software applications. We are using MySQL as database in our proposed system. It's cos effective. There is no doubt that Oracle create terrific database but the cost involved will be prohibitive for many MySQL is free. It can be installed and used but pay nothing in the process.

6.3 ER Diagram

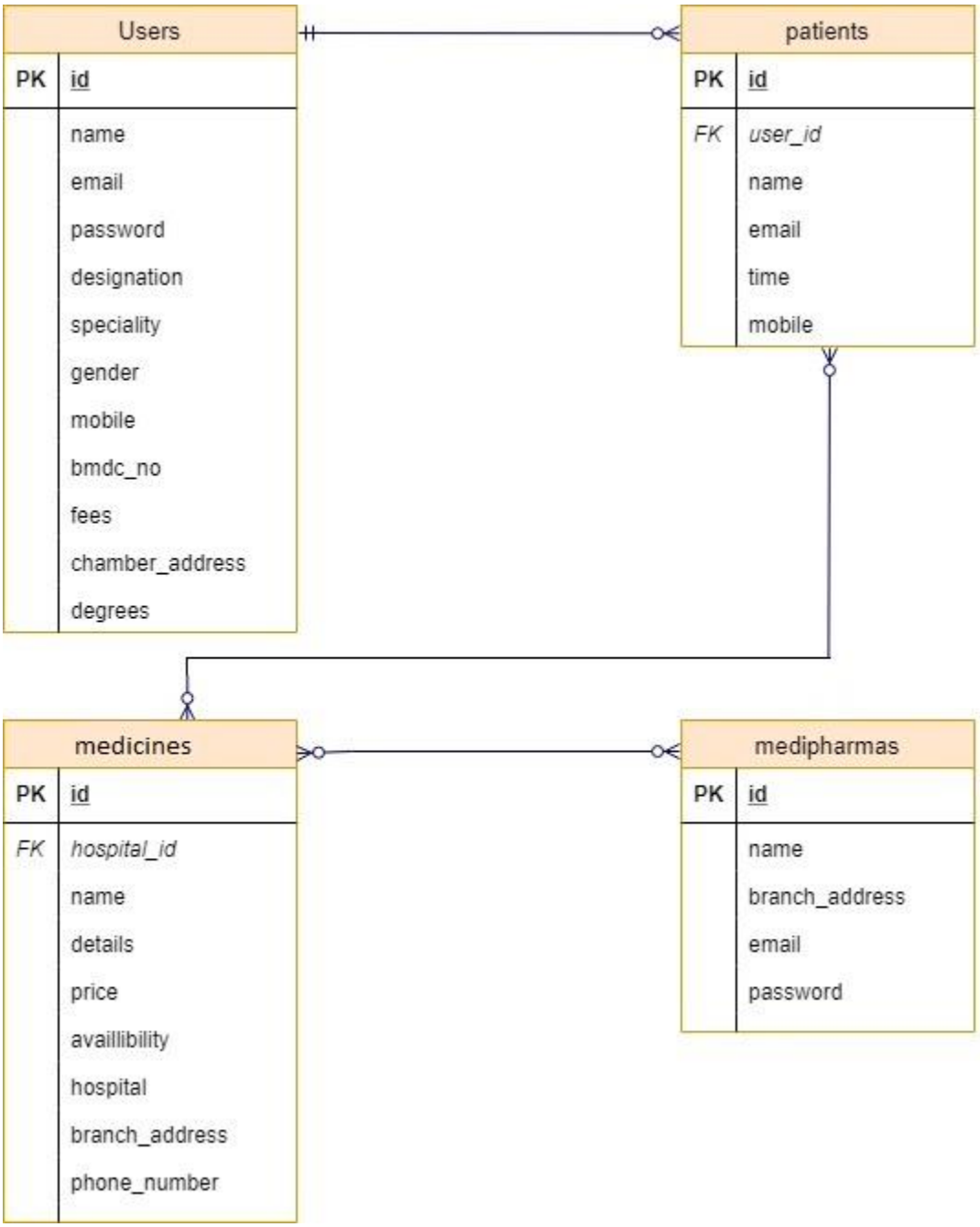

Figure 6.9**:** ER Diagram

6.3 Database Tables

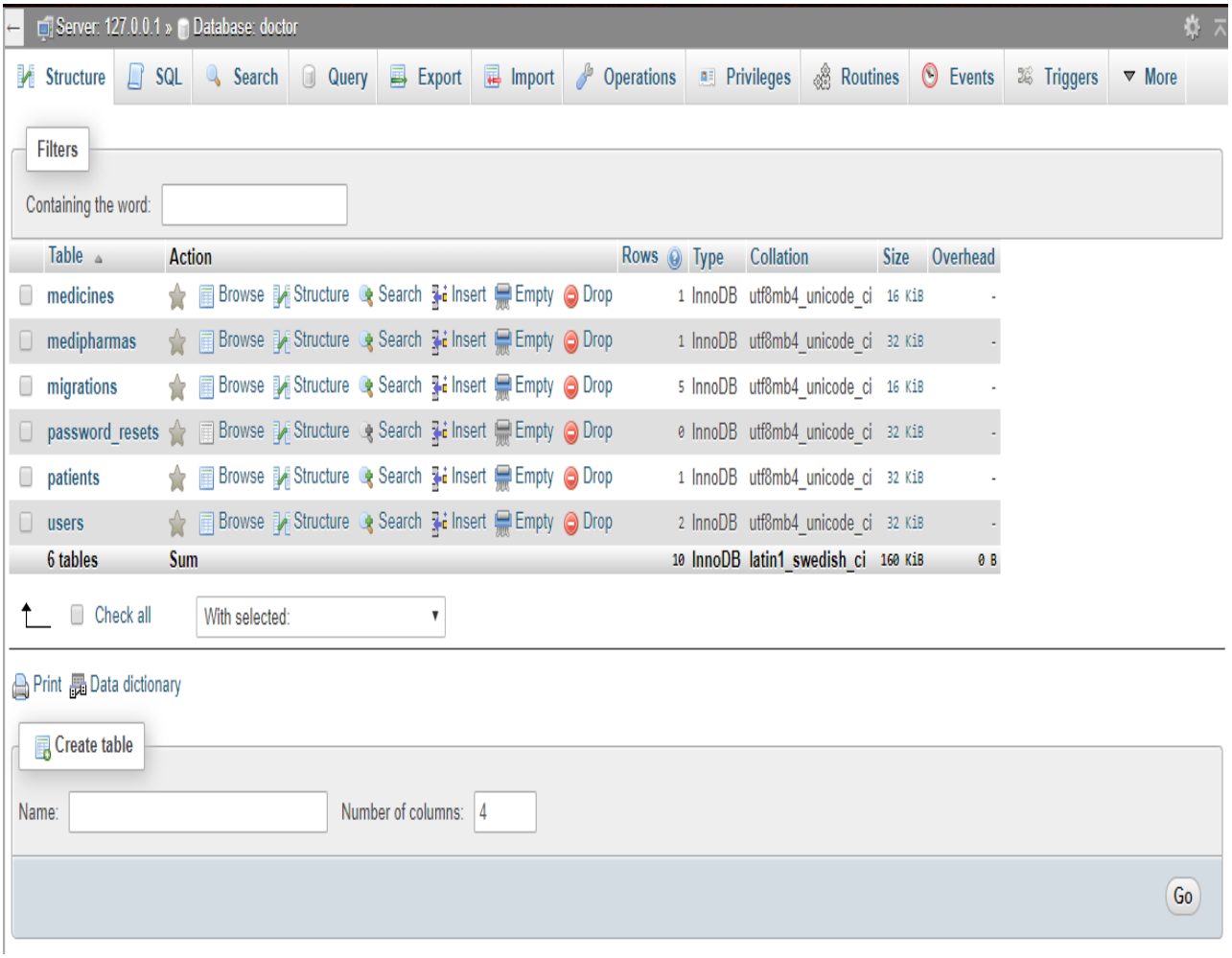

Figure 6.10**:** Database Tables

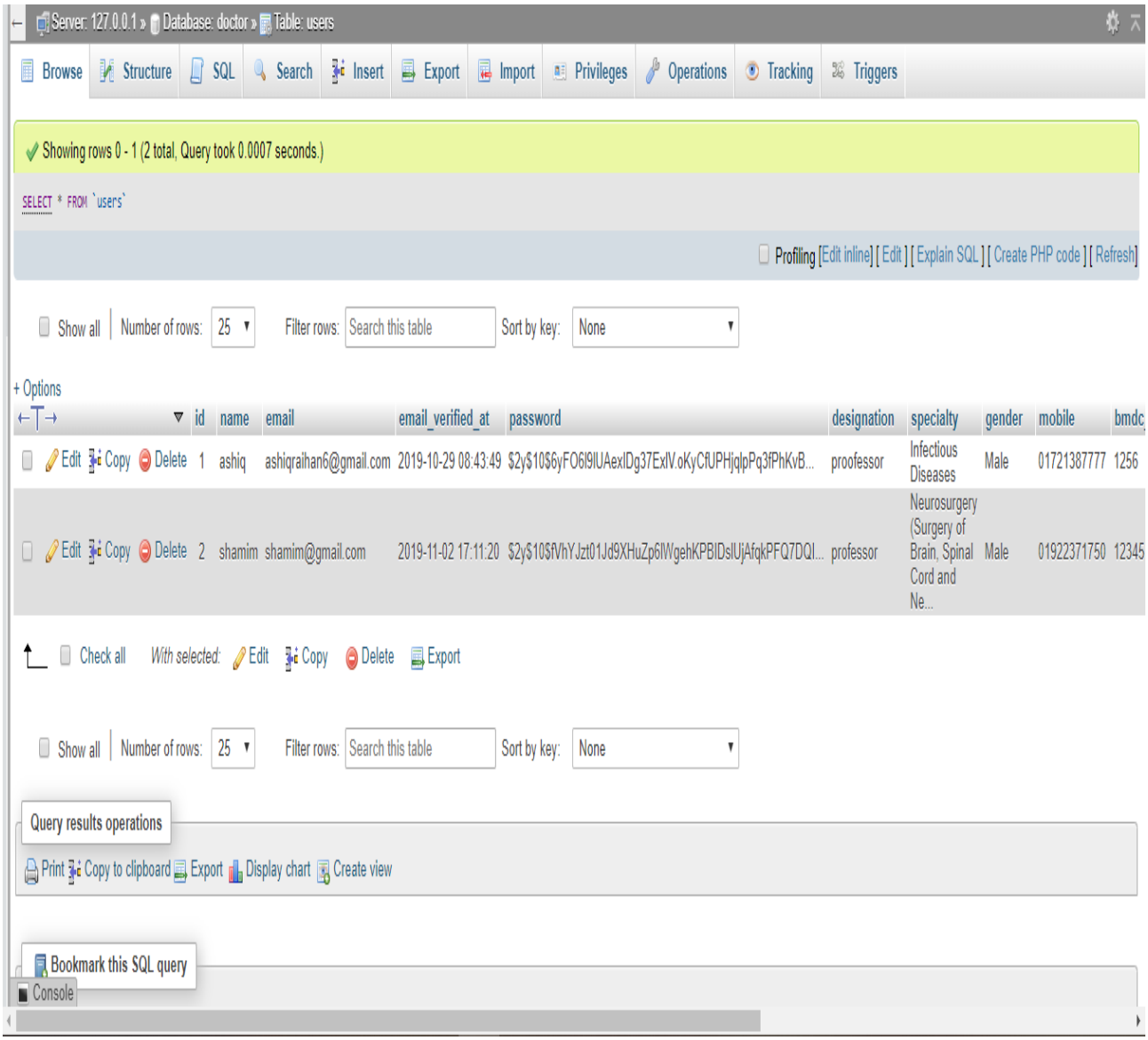

Figure 6.11: User Database Tables

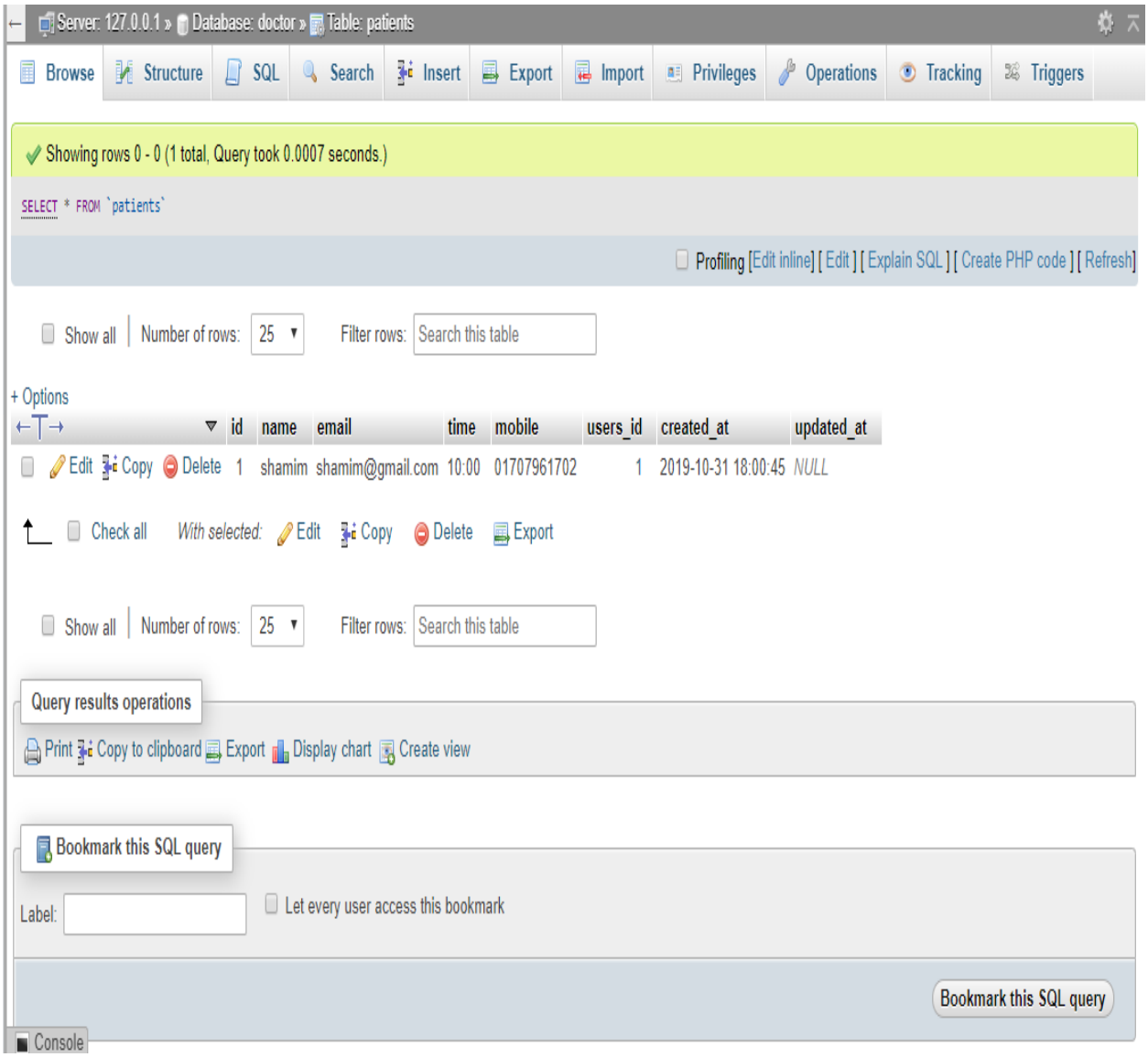

Figure 6.12**:** Patient Database Tables

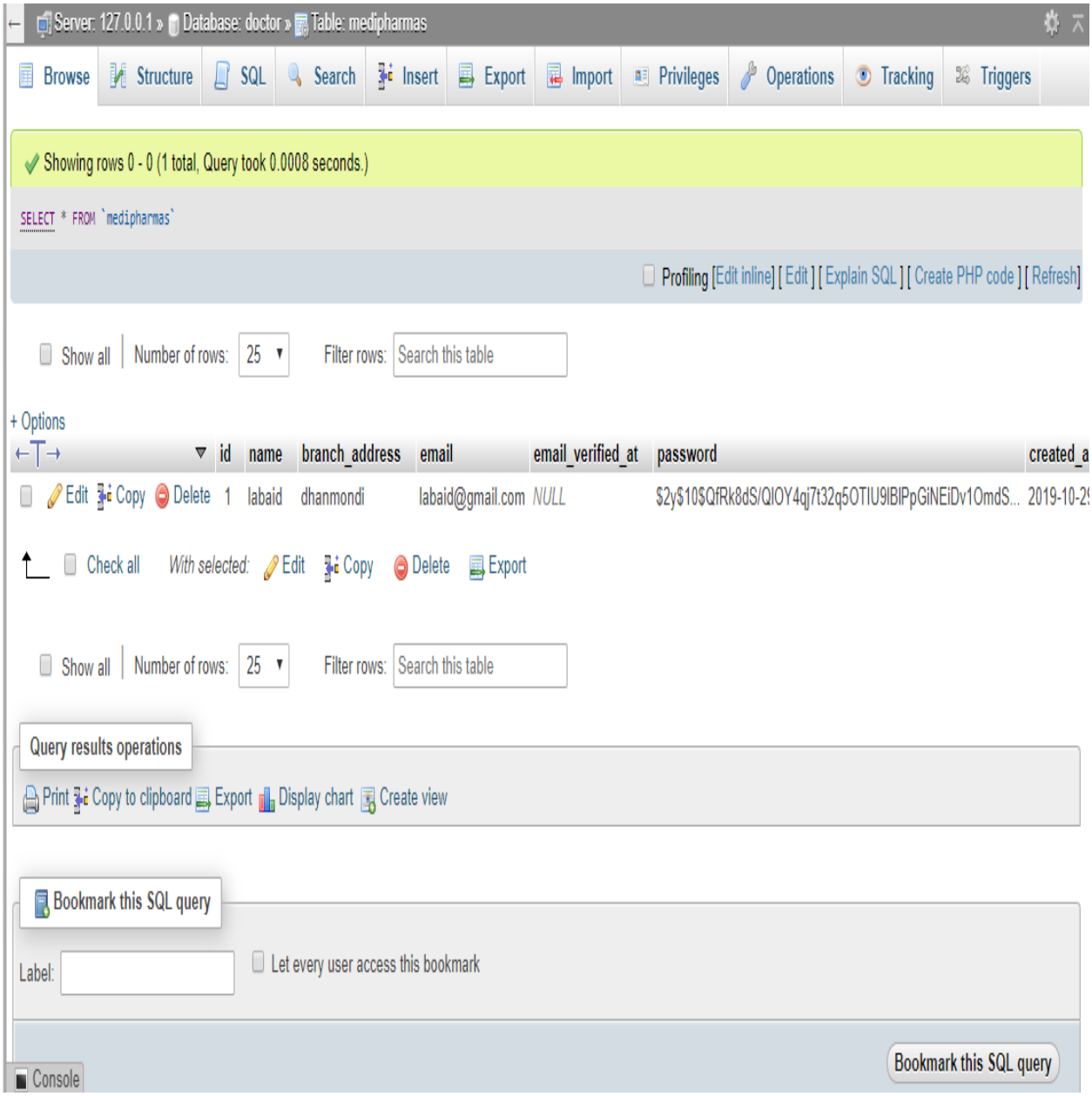

Figure 6.13**:** Medipharm Database Tables

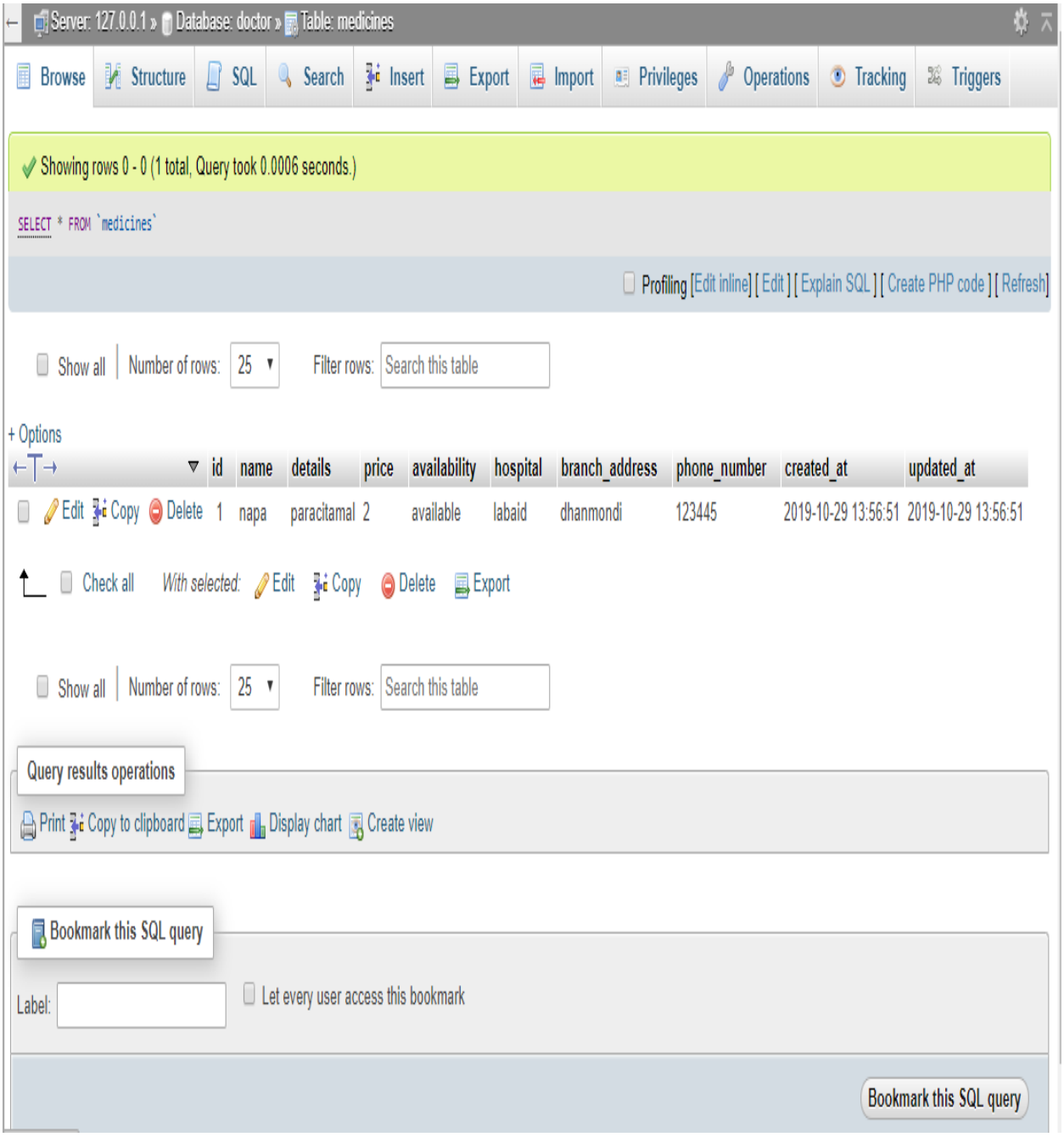

Figure 6.14**:** Medicine Database Tables

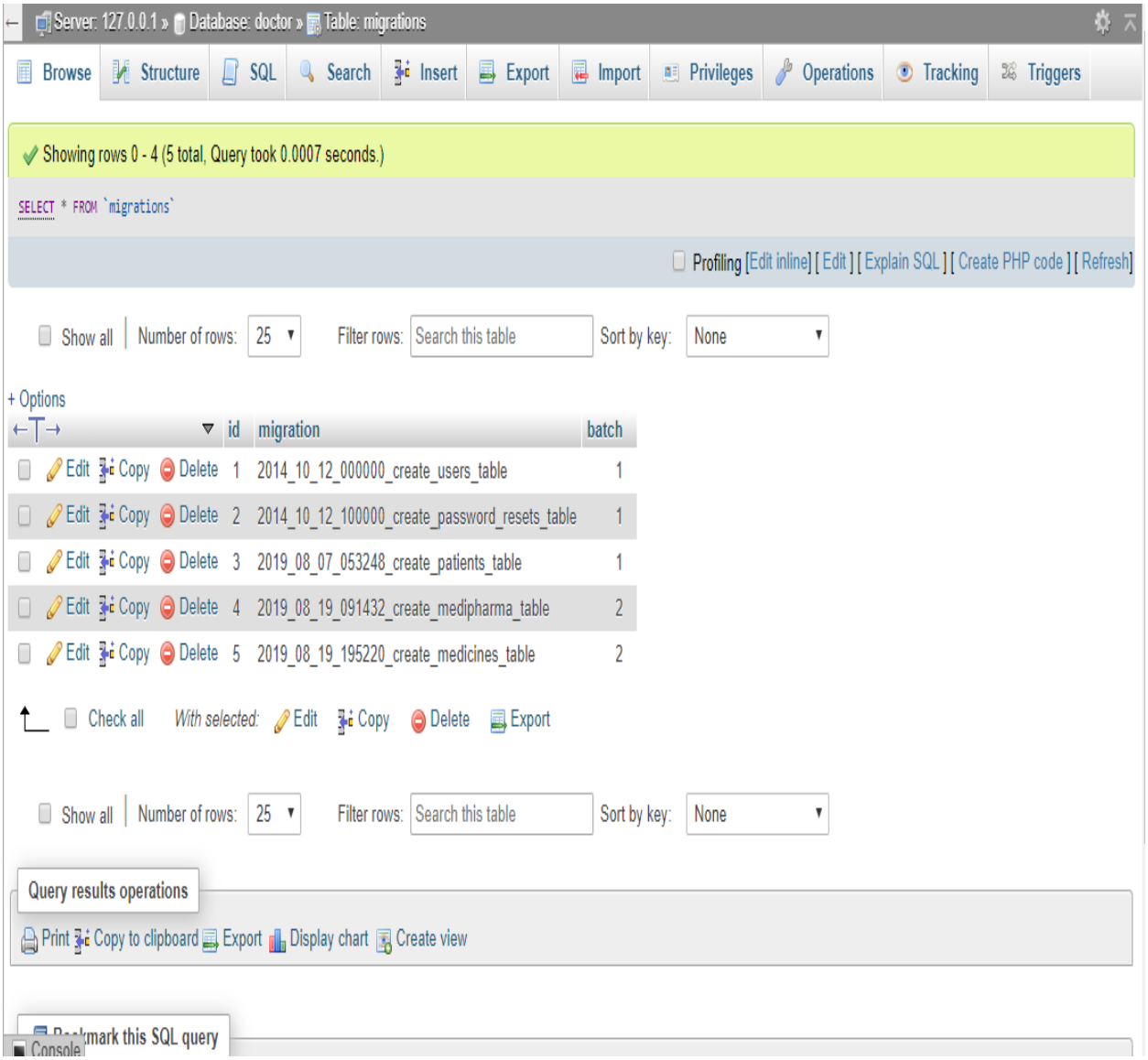

Figure 6.15: Migration Database Tables

CHAPTER 7

OVERVIEW AND VERIFICATION

In this chapter we have represented our application's whole overview and front-end design. This chapter contains some snapshots of our program. The snapshots are given sequentially.

7.1 Overview of Pages and Descriptions

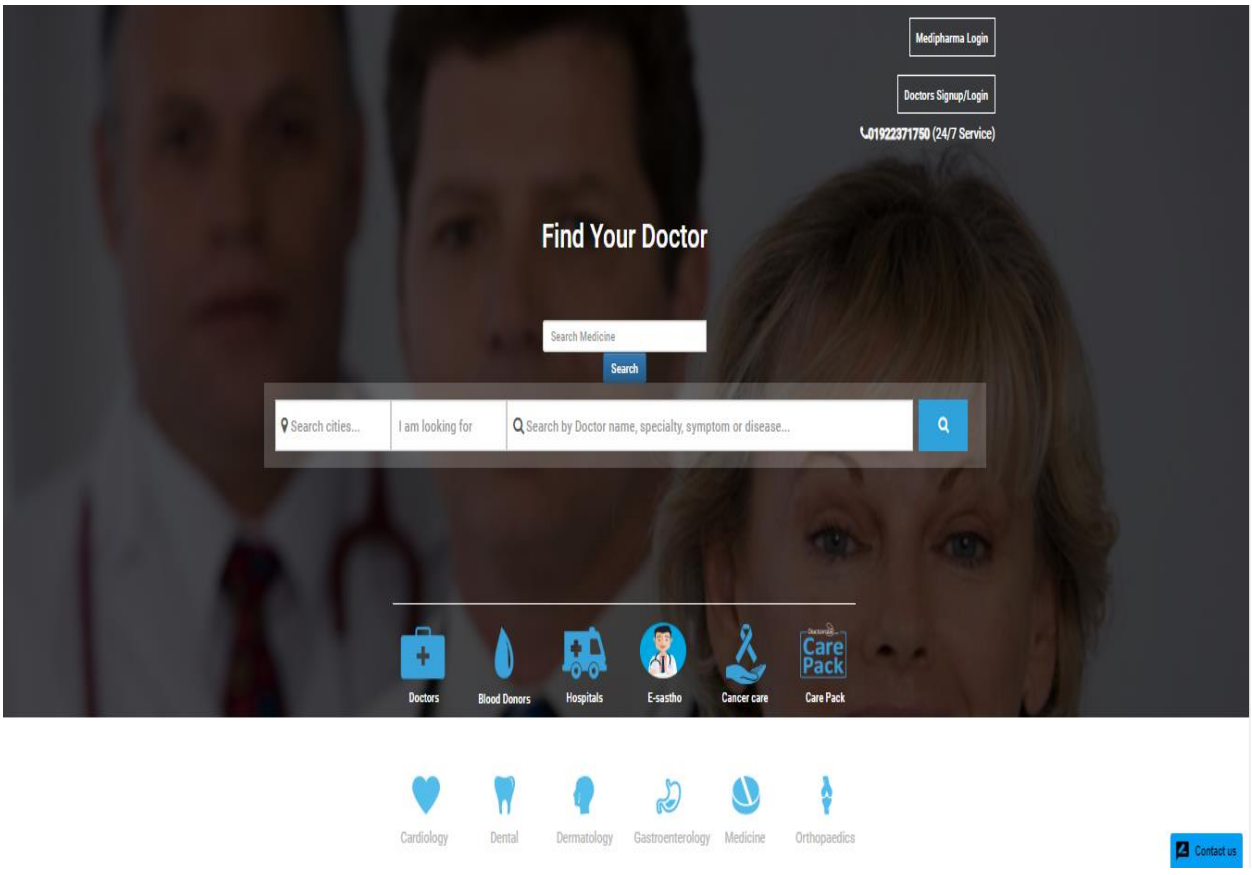

Figure 7.16**:** Doctor Bari-Easy To Get Treatment Home Page

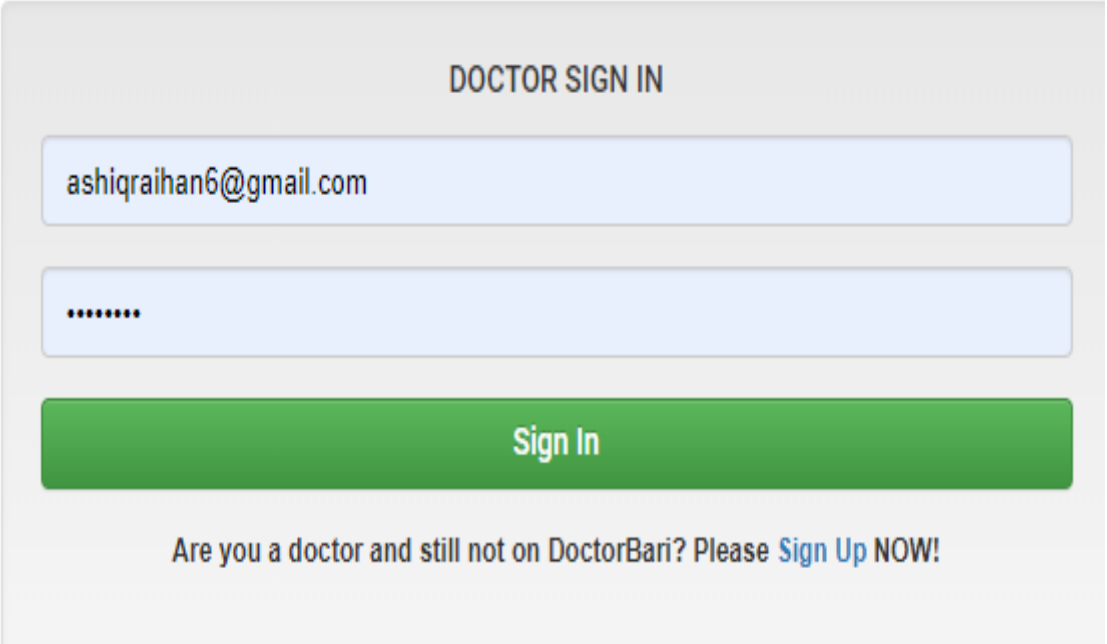

Figure 7.17: Doctor Login Page

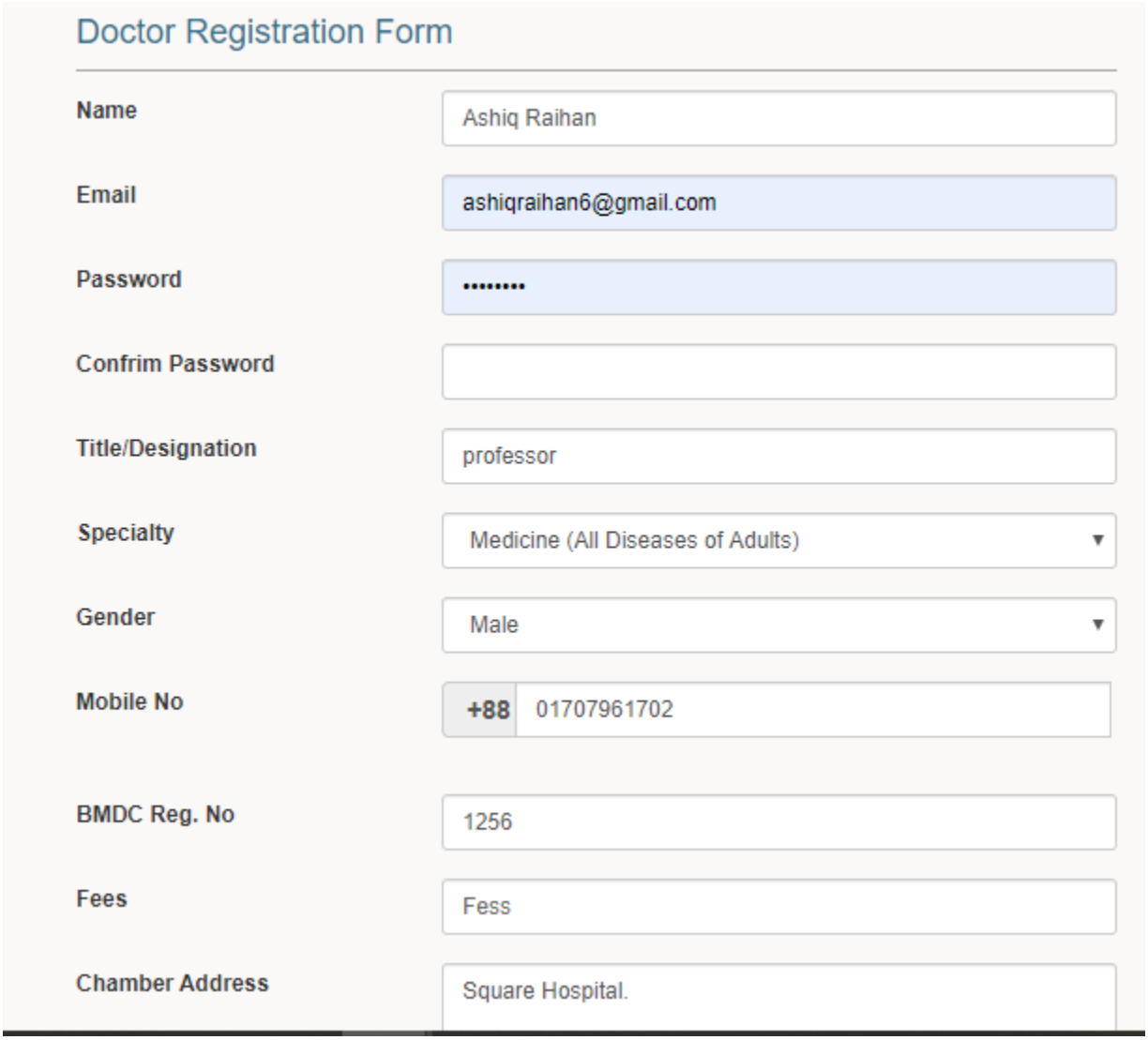

Figure 7.18**:** Doctor Registration Page

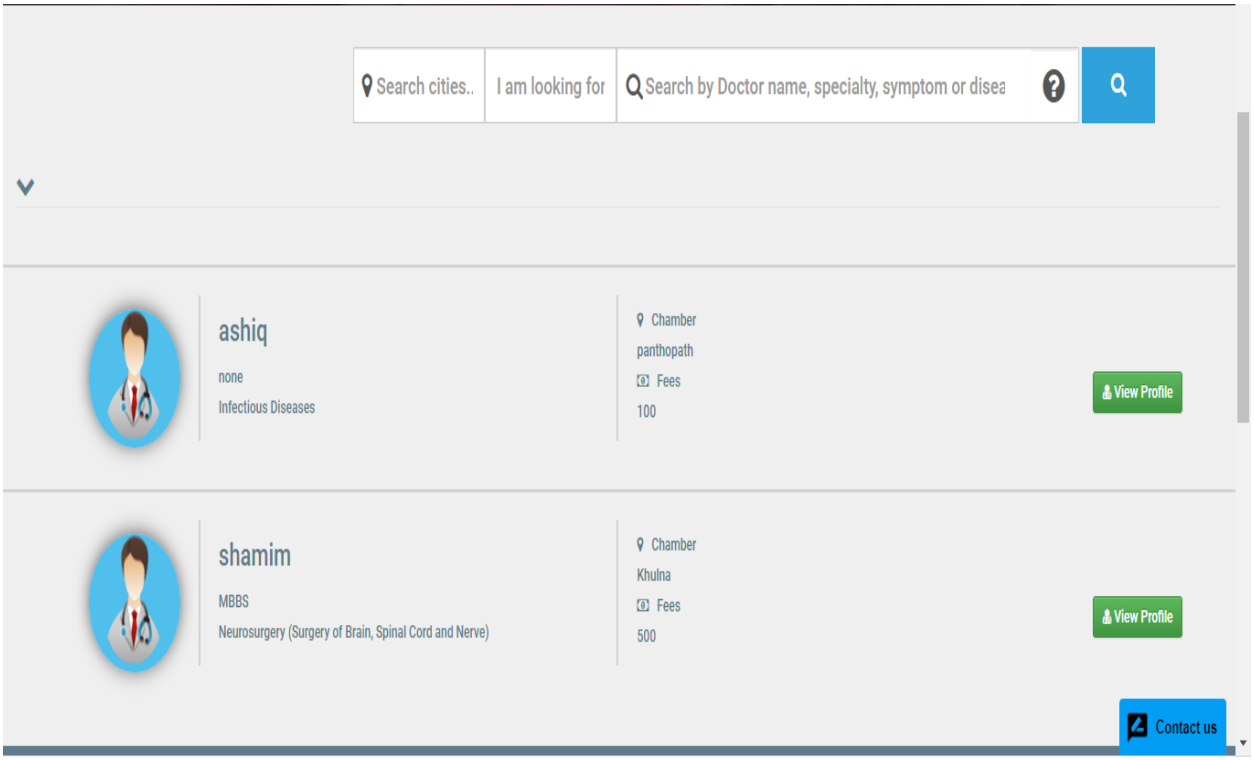

Figure 7.19**:** Doctor Profile Page

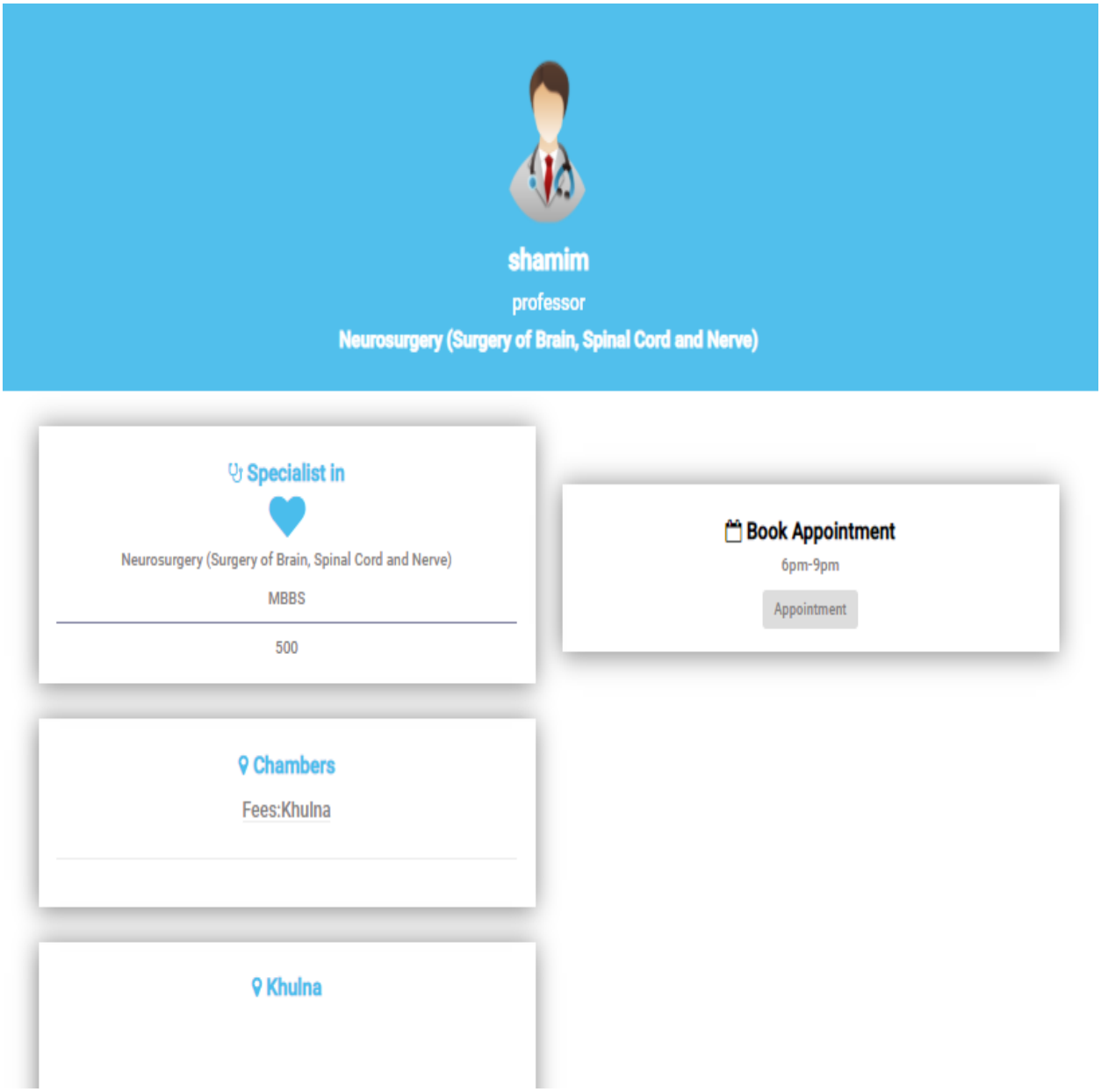

Figure 7.20: Doctor View Profile Page

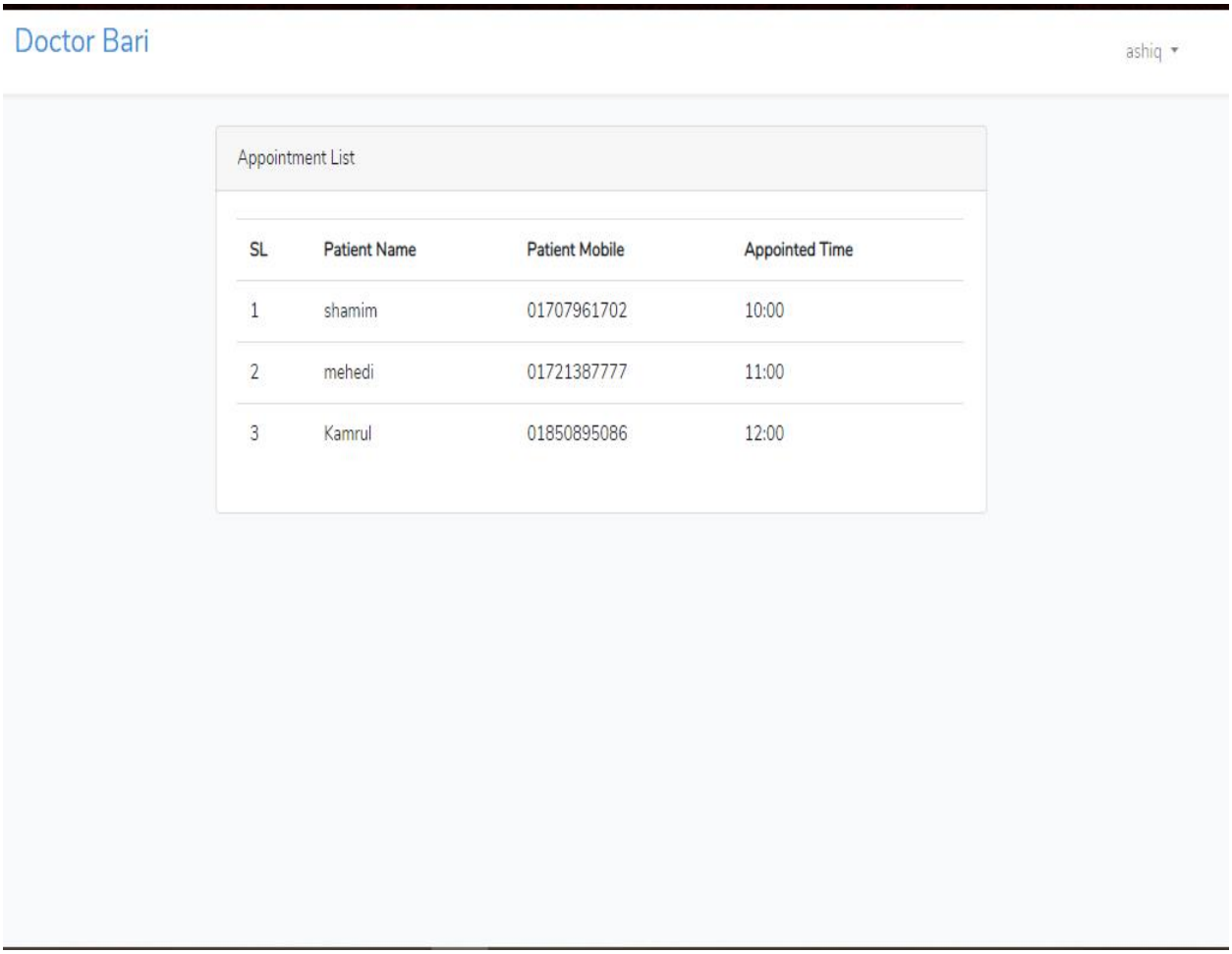

Figure 7.21: Doctor Appointment List Page

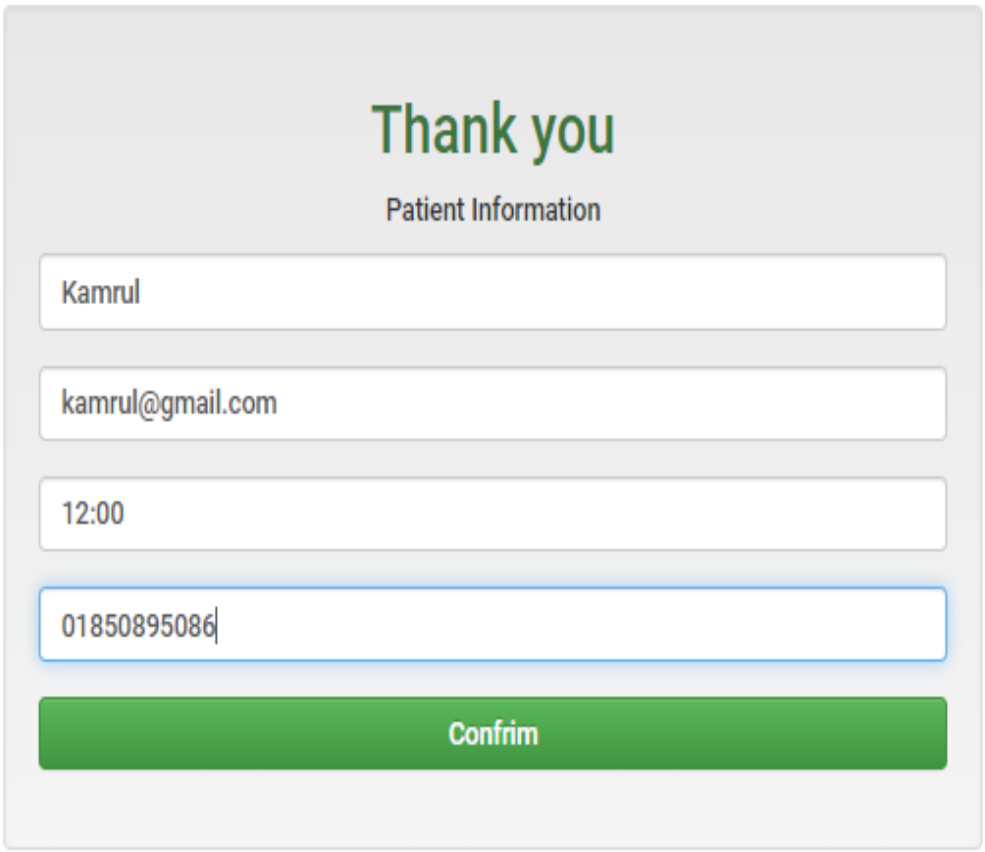

Figure 7.22**:** Patient Appointment Information Page

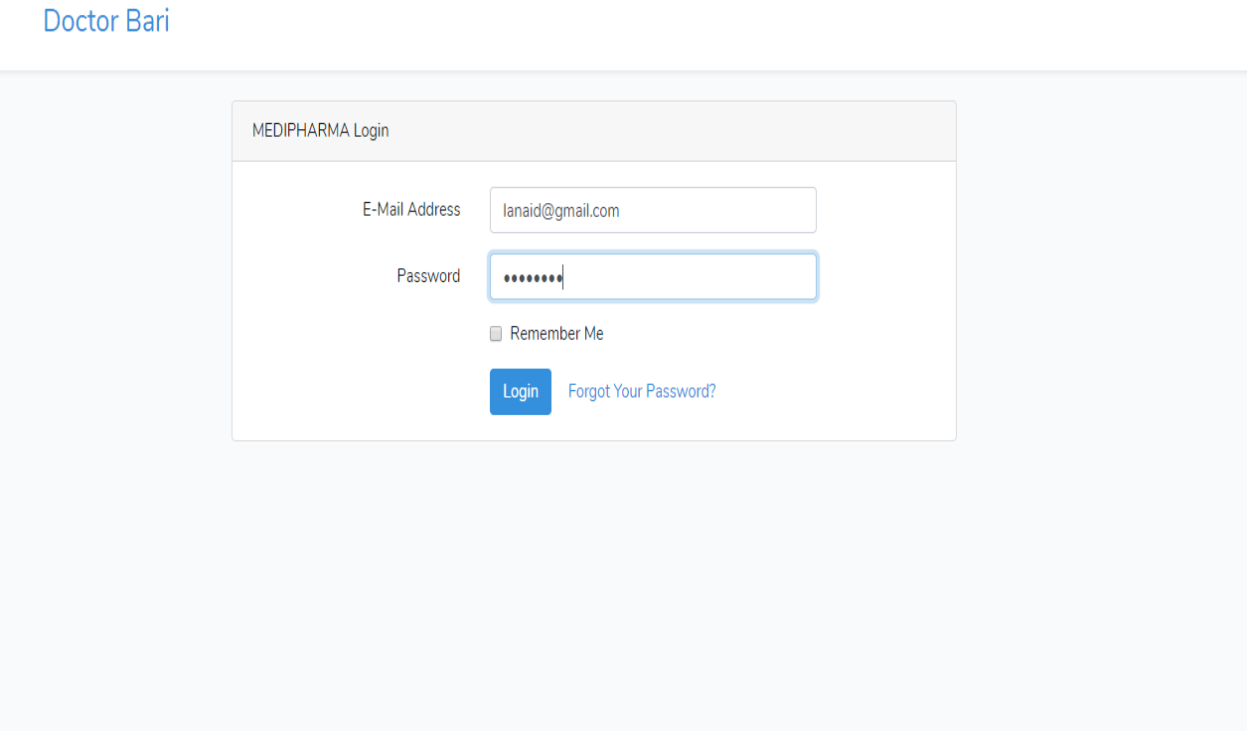

Figure 7.23: Medipharma Login Page

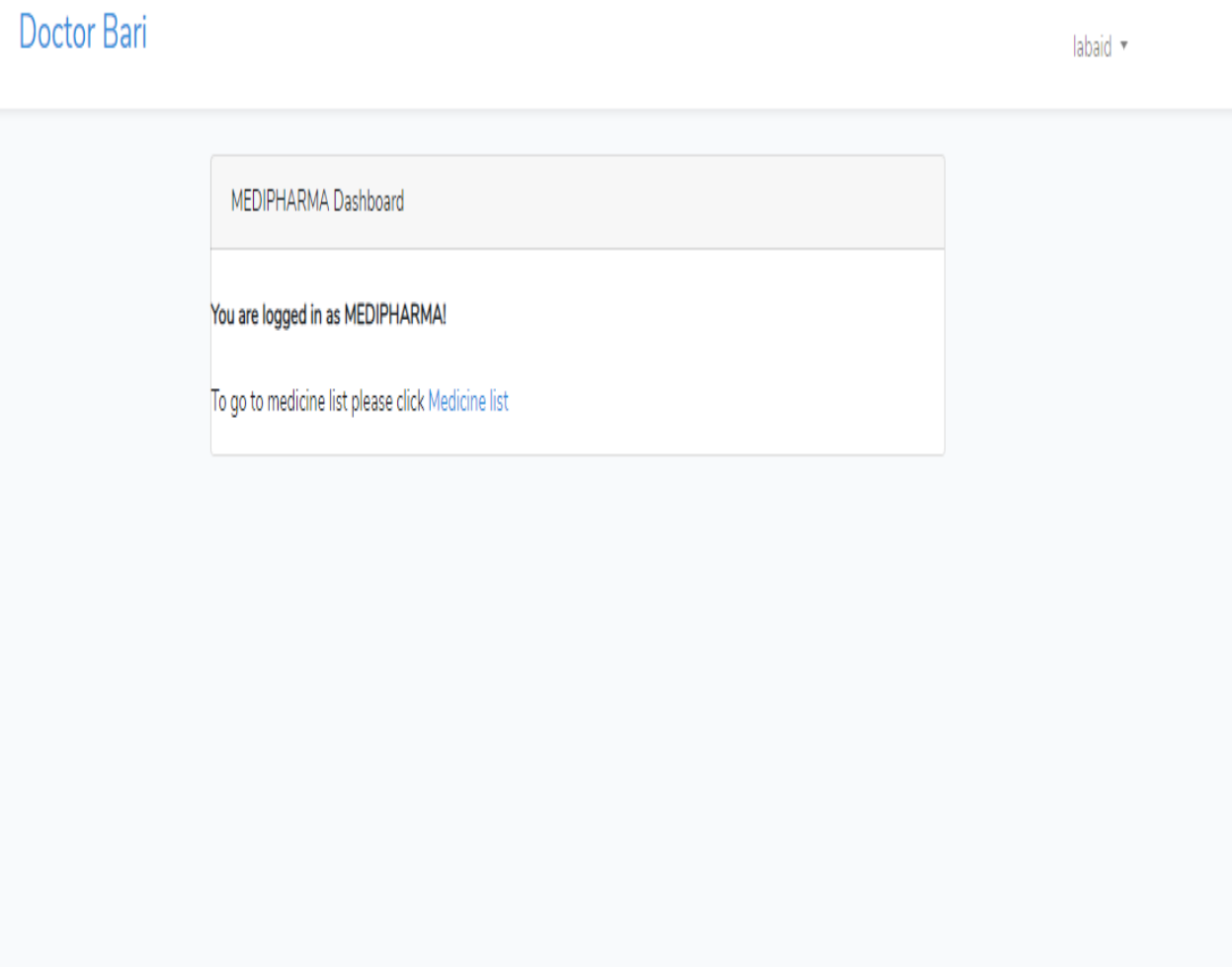

Figure 7.24**:** Medipharma Dashboard Page

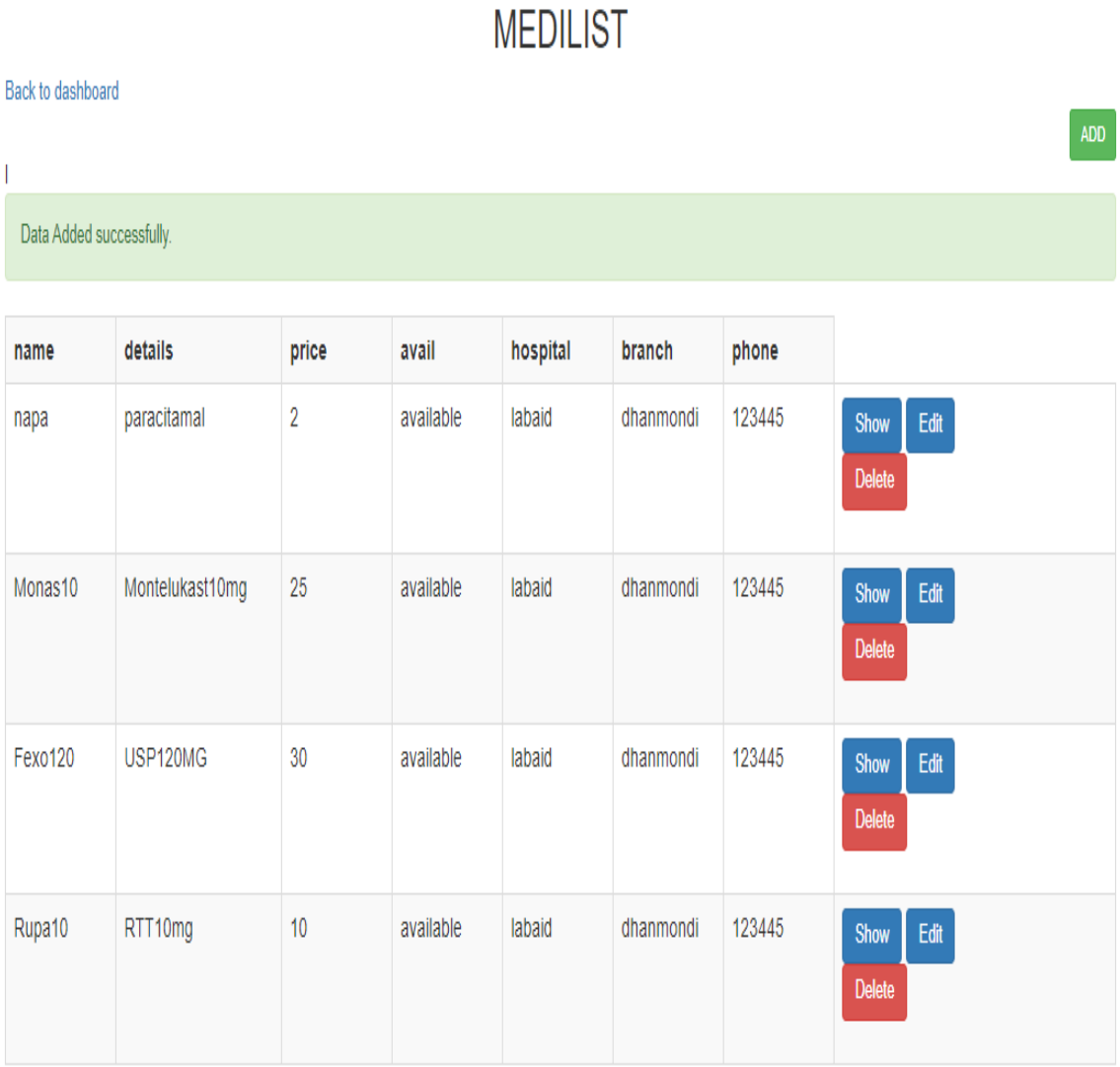

Figure 7.25**:** Medicine List Page

CHAPTER 8

CONCLUSION

The web application is complete for use. This application is built to save our time and we think it is doing what we want. Now haven't go physically to search the doctors. We can find them in our web application. We can search medicine also in our web application. It is the most irritating thing when we search some medicine but not found them. Our web application solves this problem. We can see which medicine are available in which medicine shop. It also saves our time.

8.1 Limitations

In this world everything we created have some limitations. Our application has some limitations. Some of the main limitations are-.

- We develop our application only for web.
- We implemented this application using our own host.
- We use mail trap for email verification.

8.2 Future Scopes

- We wanted to build our application for android, IPhone and for all the operating system.
- Our application's data needs more storage in future, so we will add this with larger database system such as Oracle Database or Microsoft SQL Server.
- We add some feature like online payment and other advance level feature.

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