DOCTOR NURSE FINDER: A WEB BASED APPLICATION

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/internship titled **"Doctor Nurse Finder: A Web Based Application"**, submitted by Rafsan Jany Ratul, ID No: 181-15-10903 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfilment 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 *28 January 2023*.

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We confirm that this project was completed by us under the supervision of **Raja Tariqul Hasan Tusher, Assistant Professor** in the **Department of CSE** at **Daffodil International University**. We also confirm that this project, or any part of it, has not been submitted elsewhere for the purpose of obtaining any degree or diploma.

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Thank you for sharing your appreciation and gratitude for the people who helped you complete your internship/project. It is important to recognize and express gratitude for the support and guidance of others, as it shows appreciation for their efforts and helps to build strong relationships. It is also important to thank your parents for their unwavering support and patience, as they have likely played a significant role in your education and personal development.

I am deeply grateful to Raja Tariqul Hsan Tusher, Assistant Professor in the Department of CSE at Daffodil International University, for his invaluable assistance in completing this project. His extensive knowledge and passion for web application, coupled with his patience, guidance, encouragement, and constructive feedback, made it possible for me to complete this project. I am deeply indebted to him for his tireless efforts and support.

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I am grateful to my classmates at Daffodil International University who participated in discussions and contributed to the completion of our coursework.

Last but not least, I must honor my parents' unwavering support and patience.

ABSTRACT

The purpose of the "**Doctor Nurse Finder: A Web Based Application**" project is to streamline the process of booking appointments with doctors and nurses. This project involves the development of a web-based platform that enables users to easily schedule appointments with medical professionals, using a range of tools and technologies. The platform has been designed to address the challenges and complexities associated with booking appointments in a traditional setting. It's important to thoroughly test any web-based application to ensure that it is stable, reliable, and easy to use. Additionally, it's a good idea to make sure that the platform is compatible with a range of web browsers and devices, to ensure that it can be accessed by as many users as possible. As you continue to work on this project, it may be helpful to consider ways to improve the user experience and make the booking process as seamless and convenient as possible. You may also want to consider adding features or functionality that could be helpful for doctors and nurses, such as appointment scheduling, patient records, and communication tools. I hope this information is helpful! Let me know if you have any other questions about developing web-based applications.

I have created a robust web-based platform with numerous features for nurses and doctors. Both the owner of the doctor or nurse and the users will benefit from this website. I have developed using the MySQL database, PHP (Laravel FrameWork), HTML5, CSS3, and jQuery, as well as the editors Visual Studio Code Editor and Atom. Firefox Browser And Google Chrome Browser are the two browsers being tested. After its launch, this website passed numerous tests, and it functions properly.

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CHAPTER 1
INTRODUCTION

1.1 Introduction

It sounds like you have developed a comprehensive web-based platform for booking appointments with doctors and nurses. By providing features such as availability checking, diagnostic package information, user accounts, and admin features, you have created a platform that is convenient and easy to use for both customers and the professionals who use it. It's important to ensure that the platform is secure, so that only authenticated users can access sensitive data. By limiting access to certain features for users who are not logged in, you can help to protect the privacy and security of your users.

As you continue to work on this project, you may want to consider ways to improve the user experience and make it even easier for people to book appointments with doctors and nurses. This could include adding new features or functionality, or simply streamlining the existing booking process. You may also want to consider how you can use data and analytics to understand user behavior and make informed decisions about how to improve the platform.

I hope this information is helpful. If you have any other questions about developing web-based applications, feel free to ask.

1.2 Motivation

As healthcare professionals, we understand the importance of timely and efficient access to medical care. Patients rely on us to provide them with the treatment they need, and it is our duty to make sure that they receive it as quickly and smoothly as possible. This is why we are excited to introduce the Doctor Nurse Finder Web Based Application.

By this application, patients will be able to find the medical professionals they need quickly and easily. No more flipping through phone books or searching the internet for hours on end. The Doctor Nurse Finder Web Based Application allows patients to search for doctors

and nurses by location, specialty, and availability, making it easier than ever for them to get the care they need.

But the benefits of this application go beyond just convenience for patients. It also helps healthcare professionals by streamlining the appointment booking process and reducing administrative workload. This leaves more time for what really matters: providing top-quality care to our patients.

We believe that the Doctor Nurse Finder Web Based Application has the potential to revolutionize the way patients access medical care and we are excited to be a part of this innovative project. Let's work together to bring this valuable tool to the public and improve healthcare for all.

1.3 Objectives

- To review the entire management overview for doctors and nurses.
- Consult a doctor or nurse for complete information.
- To get a doctor / nurse on any specific date.
- To get a supposition about the expense of actually taking a look at bundles.
- To reduce the complexity of the booking process.
- To check the doctor's or nurse's facilities.
- Save money and time.
- Check reviews from patients.

1.4 Expected Outcome

1. By using this website, a doctor, nurse, or site administrator can keep track of the doctor's or nurse's system on time.

2. Customers will have the opportunity to tour the doctor's and nurse's facilities.
3. My website will allow customers to check packages and book a doctor or nurse from anywhere—at home, in the office, or anywhere else.
4. The message feature of the website makes it possible to communicate with the nurse or doctor.
5. People won't have to physically go to the doctor or nurse.
6. It will save them money, time, and effort, among other complex things.

1.5 Report Layout

Chapter 1: Introduction

In this chapter, the motivation behind the project and the goals we aimed to achieve are discussed, as well as the anticipated outcomes of the project. The final section of the chapter covers the layout of the report.

Chapter 2: Background

Here, we've discussed the circumstances surrounding the beginning of my project. In comparison to other websites, this article discusses related work, the scope of the issue, and the challenges of the project.

Chapter 3: Requirement Specification

This chapter covers the requirements for the project, including business process modeling, gathering and analyzing requirements, the use case model with a description, the relational database model, and design requirements.

Chapter 4: Design Specification

This chapter contains all of the project's related designs. UX, interaction design of system, back-end design, front-end design, and the requirements for system implementation are all included.

Chapter 5: Implementation and Testing

This chapter covers the requirements for the project, including business process modeling, gathering and analyzing requirements, the use case model with a description, the relational database model, and design requirements.

Chapter 6: Conclusion and Future Scope

The project's conclusion and future scope are discussed in this final chapter.

CHAPTER 2
BACKGROUND

2.1 Introduction

I really want to investigate related projects and prior work, to investigate, for beginning an improvement project. This section foundation is vital for finishing an undertaking appropriately. I can get applicable work data which is expected to finish this undertaking from others past works which are connected with my task. So I, first and foremost, need to check assuming that anybody did this kind of site. Also, I get many relevant sites from search engines. Then I center around which are the limits of their ventures or work. In the wake of recognizing their constraint, I chipped away at their limit. I eliminate the limit and improve or foster the site. Lastly, I can construct another administration framework site. Without exploring related works, I won't get the thoughts on existing highlights of the connected activities. Therefore, we might have an extremely thin extension to work on existing highlights and adding new ones. Thus, the foundation of the venture assumes an essential part to fabricate an effective task.

2.2 Related Work

It sounds like these related web sites are helpful for finding doctors and nurses in Bangladesh, but they may not have all the features that you are looking for in a management system web site. It might be helpful to focus on the specific features and functionality that you would like to include in your project, and consider how you can build upon the existing work of others to create a more comprehensive and user-friendly platform. Some ideas for management-related features that you could consider adding to your web site might include appointment scheduling, patient record management, or billing and insurance integration. By thinking carefully about the needs of your target audience and the unique value that your web site will provide, you can develop a project that addresses the limitations of existing platforms and offers a more robust and useful experience for users.

- Practo.com [1]

- Doctime.com [2]
- eDoctor.com [3]
- seekmade.com [4]
- thehospitalbd.com [5]
- prescriptionpointbd.com [6]

Features: These websites are typically used to locate nurses and doctors. They are not overseen by a single physician or nurse.

- Provides information about doctors / nurses.
- Some have limited resources.
- Search or Call a doctor / nurse in the living area.

Problems:

- Maximum comes from outside sources.
- Unable to book directly through the web application.
- Unable to communicate directly with the authority of the doctor / nurse.

There are practically no own administration sites for a local area in Bangladesh. Which is controlled by the specialist/attendants valid power. Here is one of the related specialist/nurses is a specialist/nurses in Dhaka, Bangladesh which goes through a site displayed in figure 2.1 yet there are some impediments in this site.

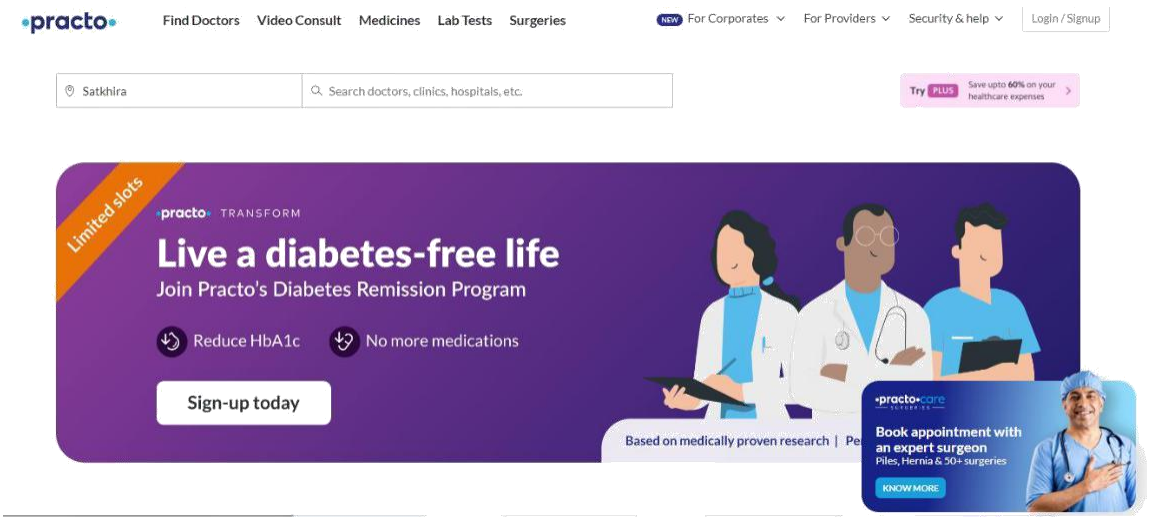


Figure 2.1: website of Practo.com

Features:

- It is possible to reserve online.
- There is information available.
- Online Information & Photo gallery.
- Contact with authority option.

Problems:

- They lack features related to product packages.
- No chatting system.
- There are no user registration features.
- There are issues with their safety.

2.3 Comparative Studies

Numerous features are on my web application. Compared to the aforementioned websites, some are alike, while others are distinct. In addition, I have developed it with

comprehensive information that is easier for administrators to use, doctors, and nurses in authority.

- Through my project, a customer can directly reserve a doctor or nurse to check the available date. However, in some projects, a customer must submit a request for booking; the administrator or authority then responds to customers to ensure availability and reserve the space.
- This feature, which isn't available in other projects, has been added to my project so that customers can see how much food packages cost. Additionally, the administration will be able to alter the food package offer.
- After receiving a service from a doctor or nurse in one of my projects, customers can rate the experience. A new feature for comparing existing websites is service rating.
- A crucial issue is security. I have utilized the MySQL database system for users, which is managed under the authority of the owner of the doctor or nurse.
- If a booking is not confirmed, a customer can check his booking history (upcoming, current, and previous) and cancel. When compared to other projects, this is also a brand-new feature in development.

2.4 Scope of the problem

In order to complete this project, I faced numerous challenges. However, I have triumphed over these challenges. Where can I find information regarding the nurse and doctor reservation procedure? As a result, I gathered information about Bangladeshi nurses and doctors. The selection of a database is also a crucial choice. MySQL has been chosen by

me to be my database. Visual Studio as an editor, I have used a variety of development programming languages in my project: Laravel, JavaScript, and the PHP Framework. For the purpose of designing this website, I must use Markup. CSS, like HTML. This website was created using JavaScript library functions like Jquery.

2.5 Challenges

The following are a few obstacles I've encountered:

- MySQL programming was a new challenge for me. I needed to learn a lot about this because I have to use it in our project database and its access.
- Developing a unique UI/UX and set of features.
- To create an intuitive UI/UX interface.
- Managing two parts of a website: common users and administrators.
- Providing superior data security.
- Blocking unwanted, unauthorized authentication from the database's reading, writing, and erasing of data.

CHAPTER 3
REQUIREMENT SPECIFICATION

3.1 Process Of Business Model

Yes, a model of a business process is a useful tool for visualizing and understanding the flow of a process or system. It can help to identify inefficiencies and opportunities for improvement, as well as provide a clear and concise representation of the process for stakeholders. In the example you described, the business process model would show the steps involved in booking a doctor or nurse, as well as the decision points for the administrator to confirm or cancel the booking request. It would also show the flow of information and data between the different actors involved in the process, such as the user and the administrator.

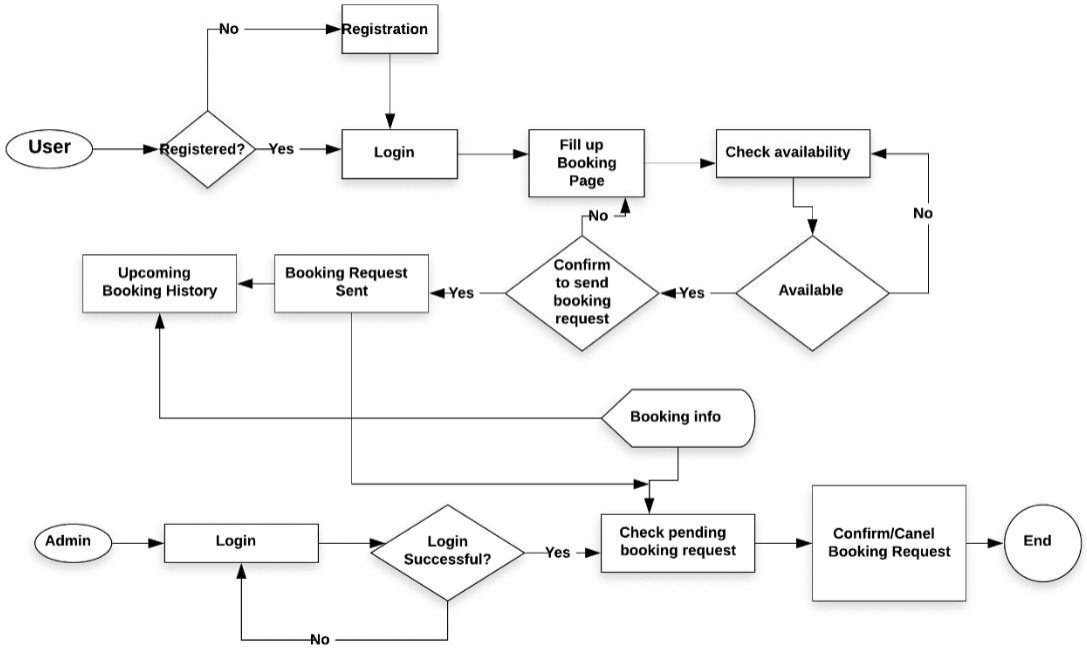


Figure 3.1: Business Process Model for booking process

3.2 Requirement Collection & Analysis

Gathering requirements is an important step in the development process, as it helps to ensure that the final product meets the needs and expectations of the stakeholders. It can be challenging to gather all of the necessary information, especially if it is spread across different sources or if the requirements are not well-defined. That's why it's important to be thorough and meticulous when collecting requirements, and to verify the information with multiple sources if possible. It's also important to involve all relevant stakeholders in the requirement-gathering process, as they can provide valuable insights and perspectives that may not be evident to an outsider. After the requirements have been collected, it's important to analyze and prioritize them, so that the most important and feasible requirements are addressed first. This will help to ensure that the project stays on track and delivers maximum value to the stakeholders. I knew about the booking process and services that a doctor / nurse provides. Collecting requirements, I analyzed these. After analysis, I arranged numerous strategy models to address the framework. To complete a project successfully, We must first gather requirements, then examine those requirements, and finally specify the method for the project.

3.3 Use Case Modeling and Description

The use case diagram is a type of behavioral UML diagram. Any system can be analyzed with the help of a Use Case diagram. These diagrams help us comprehend the system's utility by demonstrating how to identify and interact with its roles. At one point, the goals of this diagram help us figure out the roles and what they do. Any project's development would be incomplete without use case diagrams. A use case diagram depicts the system from above. This diagram shows both internal and external factors [7].

For this venture, I have invented two use case graphs. Here, the first use case diagram for patients of the customer and second is for users of the admin. where Figure 3.2 shows us Use case model for Customers and Figure 3.3 shows us Use case model for User of Admin.

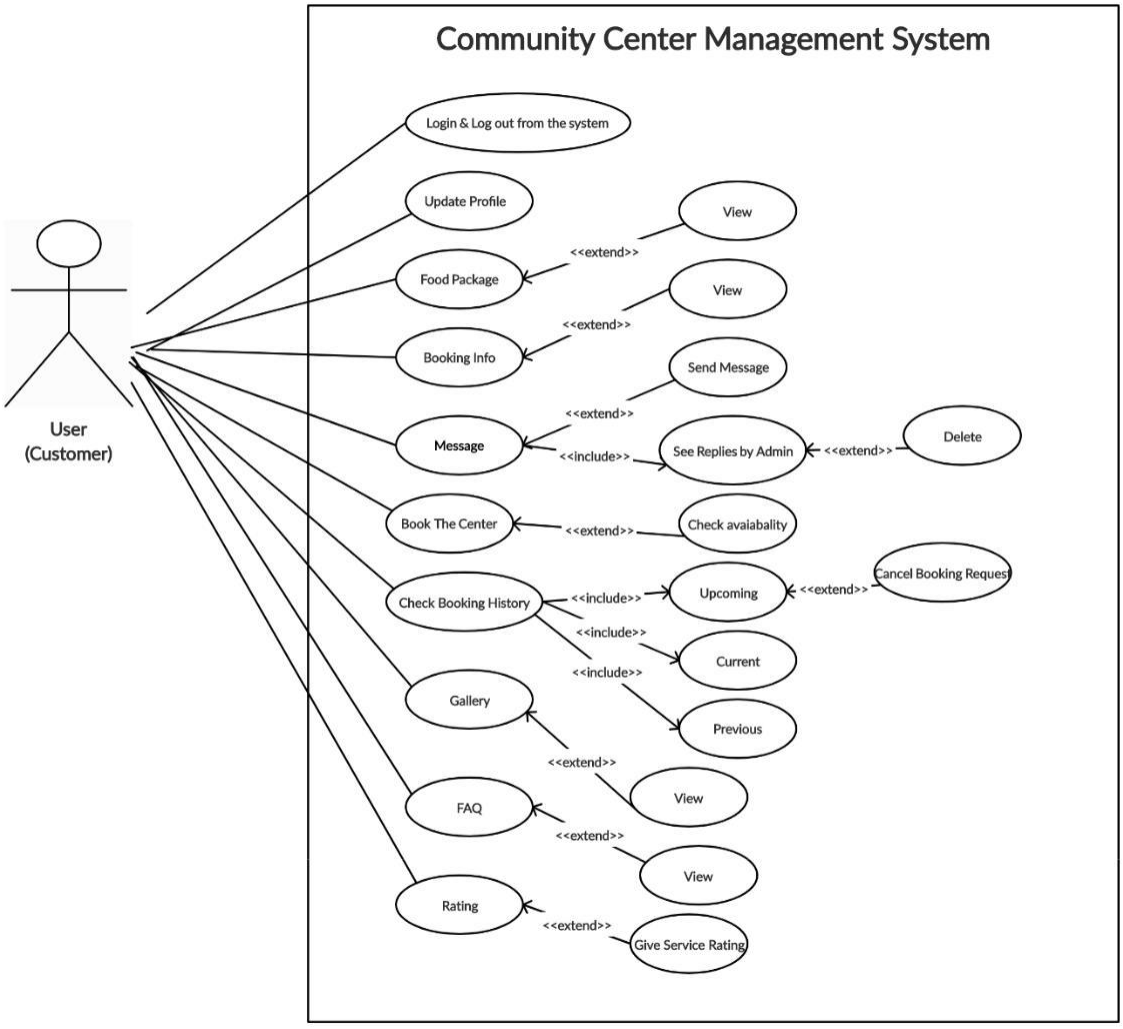


Figure 3.2: Use Case Model for Users (customers)

I attempt to illustrate the numerous user-friendly features of my project in figure 3.2. A customer can sign up or log in in one of two ways. Additionally, they can access the system by signing in. After logging in, they can view their profile and update the information they provided on the registration form.They can select the appropriate packages from the

Package section. They can supply the booking form they require from the booking section. From the booking information page, they also have booking information. They provide complete contact information for authorities on the contact pages. Additionally, they are able to communicate with admin or legitimate authority, provide feedback, or make suggestions. Their messages can be read by the administrator.

The condition of the use case titled "doctor & nurse" is that the point must be empty. Additionally, there are use cases titled "check reservation history," "gallery," "F.A.Q.," and "rating point." The gallery and FAQ show options are available to users. If they have received a service from the doctor or nurse, they can rate it. When the booking status is Not Confirmed, they can cancel a booking request.

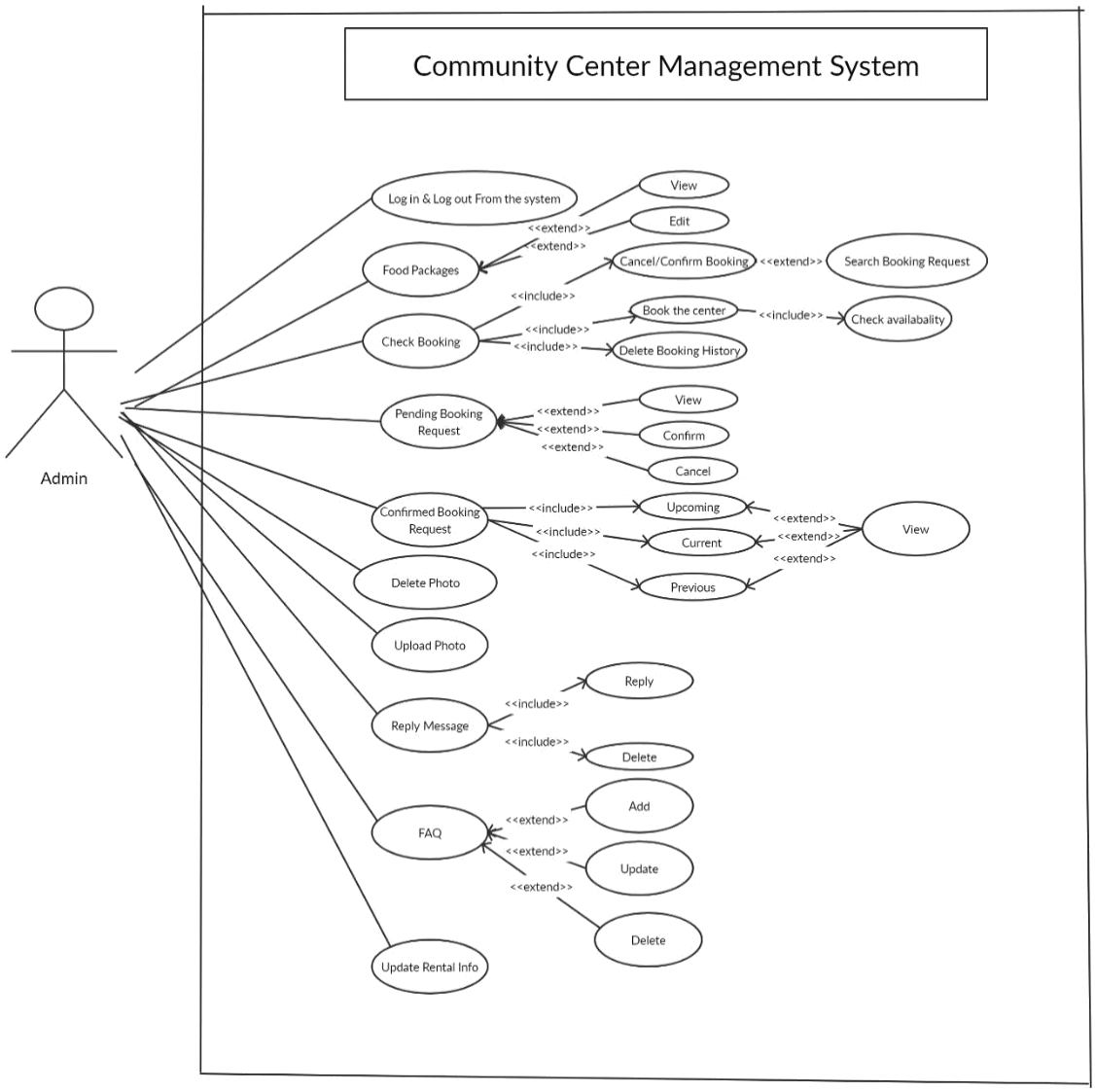


Figure 3.3: Use Case Model for Admin

In this diagram, figure 3.2, I show that my project implements numerous admin functions. The admin's activities are visible in this diagram. The administrator has access to view, modify, or delete booking information, prices, slots, and other data. The use case model in figure 3.3 reveals that Admin has numerous additional options.

3.4 Logical Data Model

Logical data models can be used to generate reports based on the entities and relationships defined in the model. An entity-relationship (ER) model is a type of logical data model that is used to represent the entities in a system and the relationships between them. The entities in an ER model are typically real-world objects or concepts, such as customers, orders, or products, while the relationships between the entities represent how the objects or concepts are related to each other.The Entity Relationship Diagram (ERD) is a logical data model. The ER diagram of my project is shown in figure 3.4.

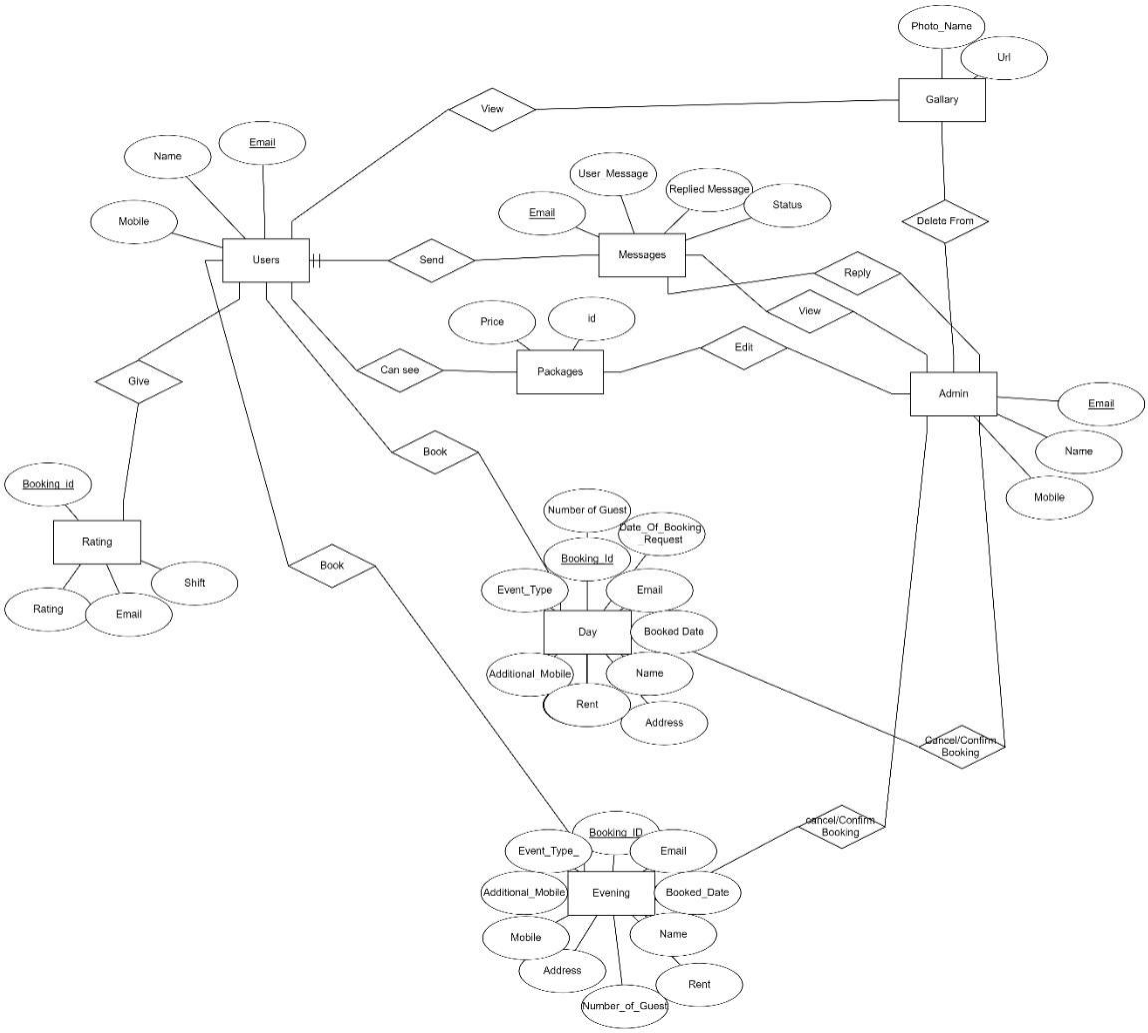


Figure 3.4: ER diagram of the system

3.5 Design Requirements

- This system has three users, a doctors / nurses user and admin user.
- There are registration options for general users.
- Admin users don't have to register.
- Doctors' profile information is public.
- Customers can check the doctor's or nurse's availability on any given day.
- After logging in, a patient can access the reservation information page's upcoming date option from the feature section.
- On the contact page, users can rate the service and make suggestions.
- The fees charged by doctors will be visible to customer users.
- Packages, prices, and images of doctors and nurses can all be edited by an authentic administrator.
- Requests for bookings can be confirmed, information updated, or canceled by an administrator.
- The database's booking information and booking history are editable by an administrator.
- A center can also be booked by an administrator by selecting a shift and an available date.
- Administrators can check the database for lists of pending and confirmed bookings.
- The admin home page displays all messages sent by customers, which can be replied to, deleted, or cleared.
- An FAQ can be added, updated, or removed by admin.
- Booking information can be updated or changed by the admin.

At the point when I began to plan the venture, I generally attempted to simplify the task and make it easy to understand for all clients. Effectiveness is crucial. Therefore,I made sure to consider this to ensure that the project runs smoothly and efficiently on the server.

CHAPTER 4
DESIGN SPECIFICATION

4.1 Front-End Design

The front-end design is important because it determines how users interact with the application. We aimed to make the design user-friendly and easy to understand. We used XML, a mark-up language, to design the user interface.

This involved creating the design for every page of the application. Some examples of the page designs and code are shown below.

```
            <tr>
                <td width="300" height="66.66"><b>Last name :</b></td>
                <td width="500" height="66.66">
        <input type="text" name="name" id="name" placeholder="Enter Your last Name">
                </td>
            </tr>
        </table>
    </td>
</tr>

 <tr>
     <td width="800" height="66.66">
      <table width="800" height="66.66" cellpadding="0" cellspacing="0" border="0">
            <tr>
                <td width="300" height="66.66"><b> Birth Date :</b></td>
                <td width="500" height="66.66">
            <input type="date" name="date" id="date">
                </td>
            </tr>
        </table>
    </td>
</tr>

<tr>
    <td width="800" height="66.66">
<table width="800" height="66.66" cellpadding="0" cellspacing="0" border="0">
            <tr>
                <td width="300" height="66.66"><b>Mobile :</b></td>
                <td width="500" height="66.66">
         <input type="number" name="number" id="number" placeholder="Enter Your mobile number">
                </td>
            </tr>
        </table>
    </td>
</tr>
```

```
<!--==================Form Start================================-->
<form action="">
    <table width="1000" height="800" cellpadding="0" cellspacing="0" border="0">
        <tr>
            <td width="800" height="800" style="background:url(../CCMS/images/pic2.jpg); background-repeat: no-
            repeat; background-size: cover; background-position: center;">
                <table  width="600" height="700" cellpadding="0" cellspacing="0" border="0" align="center"
                style="margin-left: 250px; margin-top: 200px; border-radius: 5px;" bgcolor="#ffff" >

                    <tr>
                      <td width="800" height="66.66">
                       <img src="images/CCMS.png" alt="" style=" width: 200px; height: 50px; margin-left: 300px;">
                      </td>
                    </tr>

                    <tr>
                       <td width="800" height="66.66">
                          <table width="800" height="66.66" cellpadding="0" cellspacing="0" border="0">
                             <tr>
                                <td width="300" height="66.66"><b>First Name :</b></td>
                                <td width="500" height="66.66">
                                   <input type="text" name="name" id="name" placeholder="Enter Your First
                                   Name">
                                </td>
                             </tr>
                          </table>
                       </td>
                    </tr>

                    <tr>
                        <td width="800" height="66.66">
                        <table width="800" height="66.66" cellpadding="0" cellspacing="0" border="0">
                                <tr>
                                    <td width="300" height="66.66"><b>Last name :</b></td>
```

Figure 4.1: User Registration Page Code and Design.

In Figure 4.1 is the user registration page. It was created using HTML and CSS.

But because I want to keep this report smart, I didn't include all of the HTML and CSS code here. I also carry out the actions for this page design using jquery.

Figure 4.2: HTML & CSS code

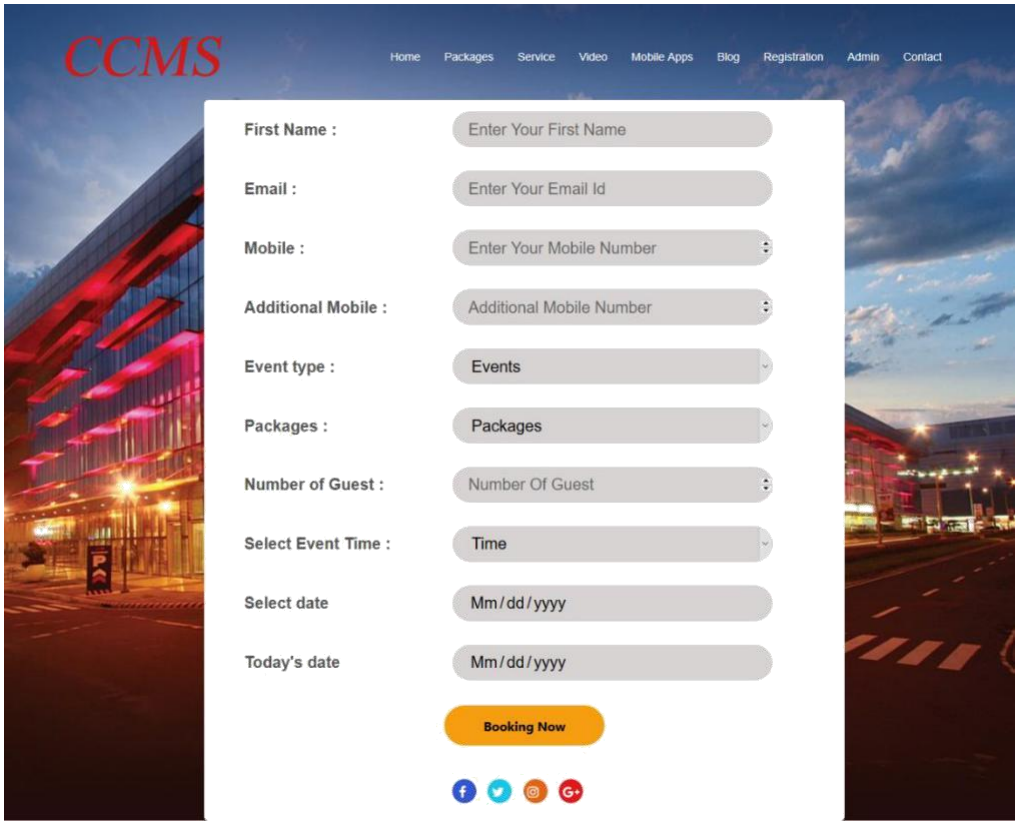


Figure 4.3: Reservation Page from Web Browser

The design of the booking page is shown in Figure 4.2. This includes a portion of the HTML5 and CSS3 code I used.

```
<form action="#">
    <div class="wrapper admin_home">
        <div class="one">
            <h1><u>Admin Home Pages</u></h1>
        </div>
        <div class="two">

            <div class="package">
                <a href="#"><i class="fa fa-cutlery" aria-hidden="true"></i></a>
                 <a href="#" style="padding-left: 5px;">Check Package</a>

            </div>
            <div class="check">
                 <a href="#"><i class="fa fa-calendar-check-o" style="color: #1543de"></i></a>
                <a href="#" style="padding-left: 35px;">Check Booking</a>
            </div>
            <div class="pending">
                <a href="#"><i class="fa fa-hourglass-half"></i></a>
                  <a href="#" style="font-size: 15px; padding-left: 5px;">Pending Booking Request</a>
            </div>
        </div>
        <div class="three">

            <div class="package">
                  <a href="#"><i class="fa fa-check-square" style="color: green;"></i></a>
                  <a href="#" style="font-size: 15px; padding-left: 5px;">Confirmed Booking Request</a>
            </div>
            <div class="check">
                  <a href="#"><i class="fa fa-picture-o" style="color: aqua;"></i></a>
                  <a href="#"  style="padding-left: 35px;">Upload Picture</a>
            </div>
            <div class="pending">
                  <a href="#"><i class="fa fa-trash" style="color: #1543de; padding-left: 10px;"></i></a>
```

Figure 4.4: HTML5 Code

```
      <div class="check" style="margin-left: 350px;">
        <a href="#"><i class="fa fa-sign-in" style="color: #18a8e8;"></i></a>
             <a href="#"> <input type="submit" value="Log in" style=" width: 80px; font-size: 20px; font-
             family: sans-serif; color: blue; font-weight:600; border-radius: 5px;border: 0px; margin-top: 0px;
             margin-left: 10px;  cursor: pointer;text-transform: capitalize;"></a>
      </div>


  e31818
  -->

  </div>
  <div class="six">

<a href="https://www.facebook.com/log-in" target="_blank"> <i class="fa fa-facebook" style="background: #fff;
padding-left: 20px; color: #1543de; width: 50px; height: 50px; margin-left:70px; font-size: 20px; line-height:
60px; border-radius: 50%; margin-top: 50px;"></i></a>

a href="https://www.twitter.com/log-in" target="_blank"> <i class="fa fa-twitter" style="background: #18c7e6;
adding-left: 15px;  color: #fff; width: 50px; height: 50px; margin-left:20px; font-size: 20px; line-height:
0px; border-radius: 50%;"></i></a>

 href="https://www.twitter.com/log-in" target="_blank"> <i class="fa fa-instagram" style="background: #e36618;
dding-left: 15px; color: #fff; width: 50px; height: 50px; margin-left:20px; font-size: 20px; line-height: 60px;
rder-radius: 50%;"></i></a>

a href="https://www.google.com/" target="_blank"> <i class="fa fa-google-plus" style="background: #e31818;
adding-left: 15px;color: #fff; width: 50px; height: 50px; margin-left:20px; font-size: 20px; line-height: 60px;
order-radius: 50%;"></i></a>
   </div>
div>
```

Figure 4.5: CSS3 Code

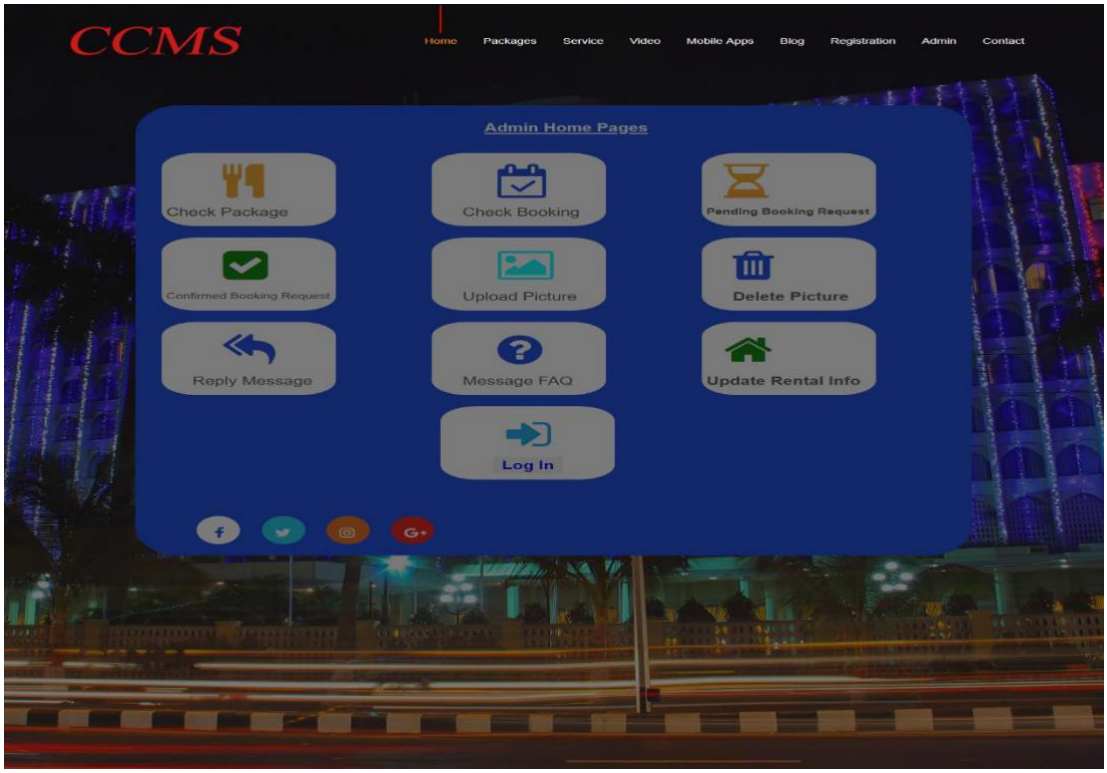


Figure 4.6: Admin Home Page from Web Browser

The layout of this project's admin home page and a portion of its HTML5 and CSS3 code are depicted in Figure 4.3. There are such countless pages in this venture, each page has its HTML5 and CSS3 code. Nevertheless, it is essential to remember that the PHP code that I have not demonstrated here cannot be used with these pages.

4.2 Back-End Design

The entire logical component of this project has been served by this Back-End Part. Data set association, utilizing information base, data set keeping up with and so on. The back-end section is where all of these database-related codes are written. I've written the back-end code for my project in PHP, which is part of the Laravel framework.

I have utilized a MySQL programming database for this project's back-end under maintenance. We get a patients,doctors & nurse authentication system from MySQL.

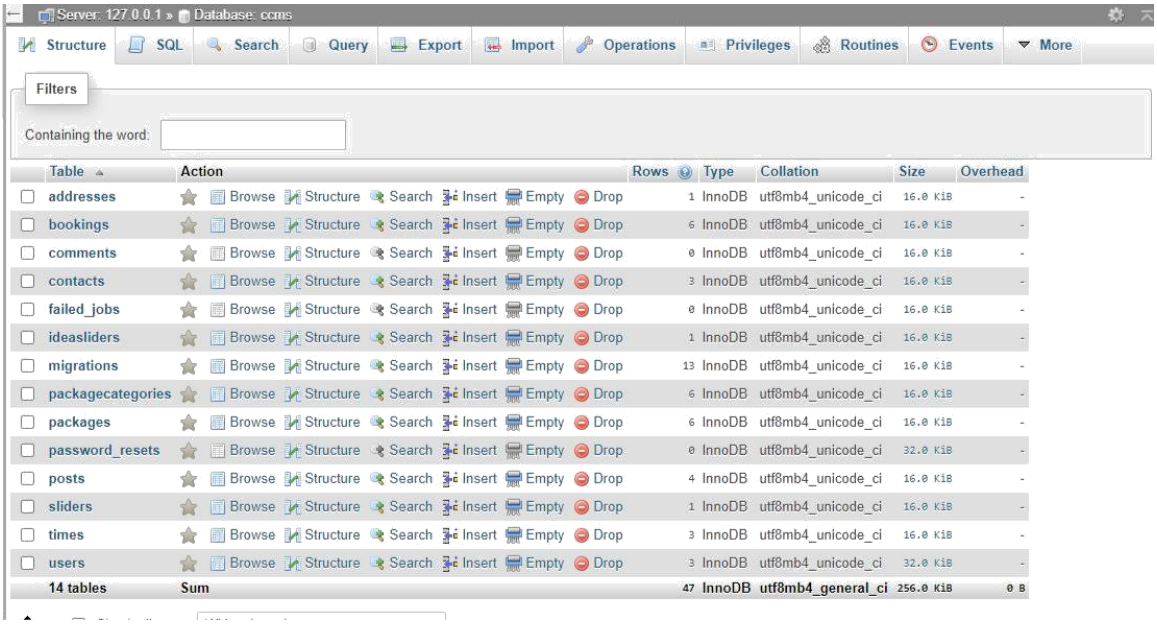


Figure 4.7: Database Main Page

The database's main page is shown in Figure 4.4. The database's table can be found here. such as booking, address,

Remarks, bundle, bundles class, post, slider, times, client and so forth. An administrator can add new features and tables to the authentication page for this database and also delete them if necessary.

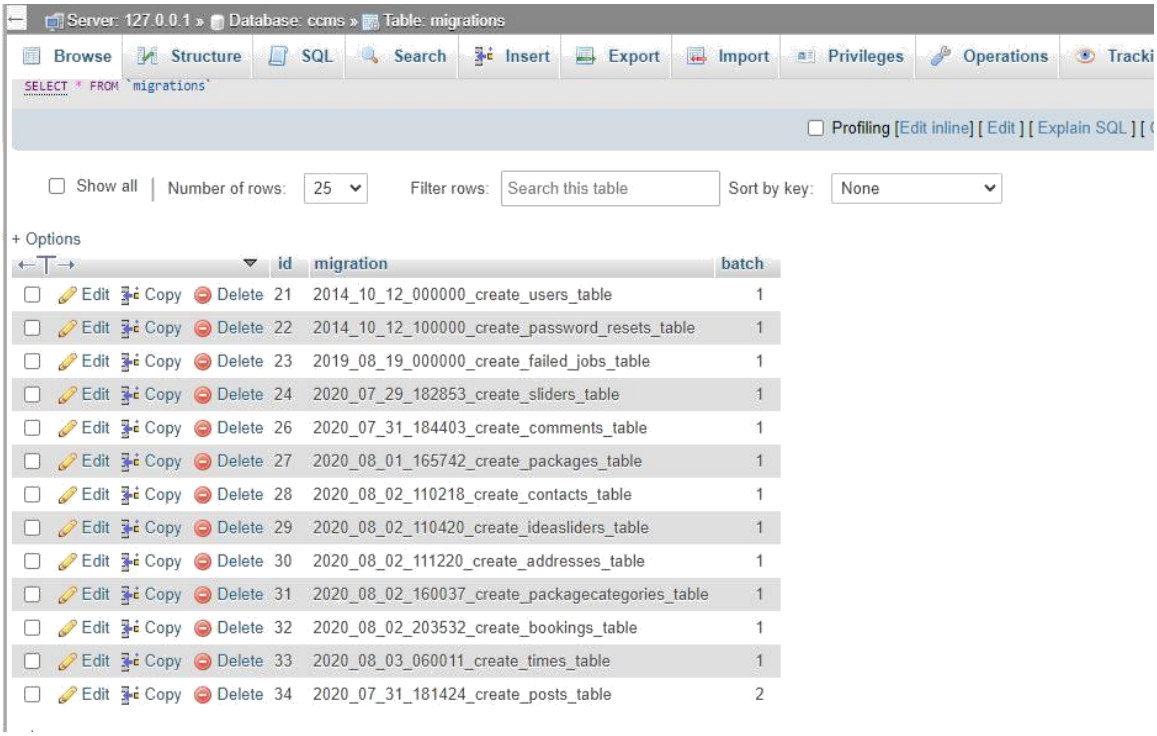


Figure 4.8: Database Migration & Table Page

Figure 4.5 shows the database migration page, which is connected to PHP (Laravel Framework). PHP (Laravel Framework) is used to create and connect each database table.

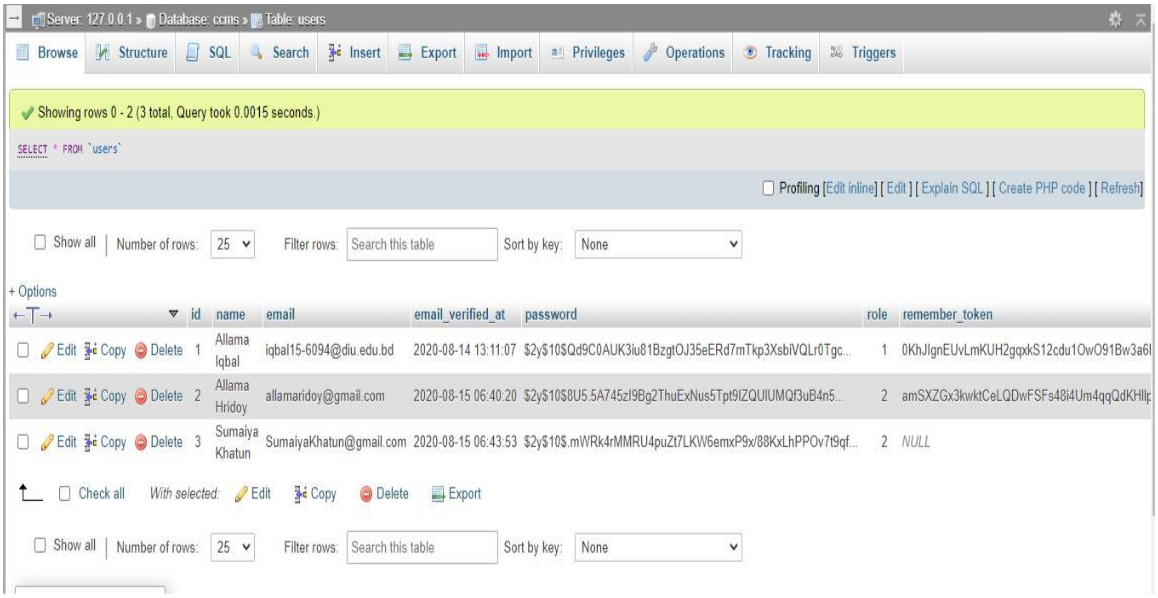


Figure 4.6: Storage of User Page

Every administrator and user account is stored in our database. This database contains their address, secure password, picture, and profile.

4.3 Interaction Design and UX/UI

Homepage Design:

- Package (the user is able to view the price, a picture of the platter, and a description of the food platter provided by the doctor or nurse's management).
- Booking (For the entire booking procedure, complete the booking form here).
- Information Regarding Reservations (You can find information about booking here).
- Message (Messages can be sent by users. Below is the administrator's response, which users can remove from their chatting history.
- Contact Us Page(All doctor/nurse authentication contact information is listed here).
- FAQ (show frequently asked questions set by the website admin)Registration (Registration for Doctor, Nurse, User).
- Create an account (register on the page and create an account).
- SignIn, SignUp
- Menu Bar (Home, Doctor Search, Career, Shop, Signup, Admin, Contact).

Admin Page Design:

- Sign In (Administrator can sign in from the sign in structure).
- Preview of reservation or booking list, address, phone number, edit and delete Options are found on the admin home page.
- Manage Post: Event function history can be edited or deleted by admin.
- Pending Request for a Reservation (Cancel, Confirm, Details Display; sort by requested date or booked date).
- Status of Confirmed Reservations (List of Upcoming, Current, and Previous Confirmed Reservations)

- Upload a picture (Admin can upload a picture to display on platters for food packages).
- Remove the image (Admin can remove the image from food package platters).
- Message to reply to (Admin can view and delete messages from users who reply to them).
- Manage FAQs (update, delete, and add).
- Category List (Admin can add, edit, and delete categories).
- Bundles Rundown (Administrator can change bundles list, cost, picture, content. Admins can also edit and delete)
- LogOut (log out from sign out form)

UX

UX is shortened to User Experience. I have attempted to design a website that is easy to use. I have utilized this site from different programs. Several people have used this project, and they have praised me. Everything seems to be okay to me. But because I haven't made this website public yet, I don't yet have enough information about user experience.

4.4 Implementation Requirements

With a variety of frameworks and programming languages, any PHP-related development project can be completed. As it appeared to be more convenient for us, I have used both Visual Studio and Brackets. PHP's (Laravel Framework) built-in classes are numerous. Therefore, it simplifies coding style. HTML, CSS, and the Jquery JavaScript Library make design a breeze as well. The following is a discussion of the requirements for putting our project into action:

- In this project, PHP Laravel FrameWork plays a significant role. A website application development package is included. I have used PHP Laravel Framework

version 7.1.0 at this time. I upgraded my project to the most recent version, 7.1.0, even though I started with an older version.

- We don't have to worry about servers because MySQL provides server functionality. Its storage, database, and authentication features are reliable and effective. MySQL handles the server and all related tasks. To use MySQL with my project, I need to connect it.
- The emulator in Visual Studio allows you to create a virtual operating system for debugging, testing, and running an application in various Visual Studio Code.

CHAPTER 5
IMPLEMENTATION AND TESTING

5.1 Integration of Database

Any project for a management system must have a database. Our database must contain various data. Depending on our requirements, we keep and retrieve data from the database. I used a MySQL database for my Laravel-based web application. MySQL takes care of all server and hosting needs, so I don't have to worry about them.

Above all else, I have associated my venture with MySQL following a few stages which are accessible on the MySQL site. MySQL requires us to set up various databases. After that, we must link it to PHP code. After confirming authentication, the PHP server was

connected. After migrating the MySQL & ENV files, Laravel must migrate them, and then all of the database's tables must be imported.

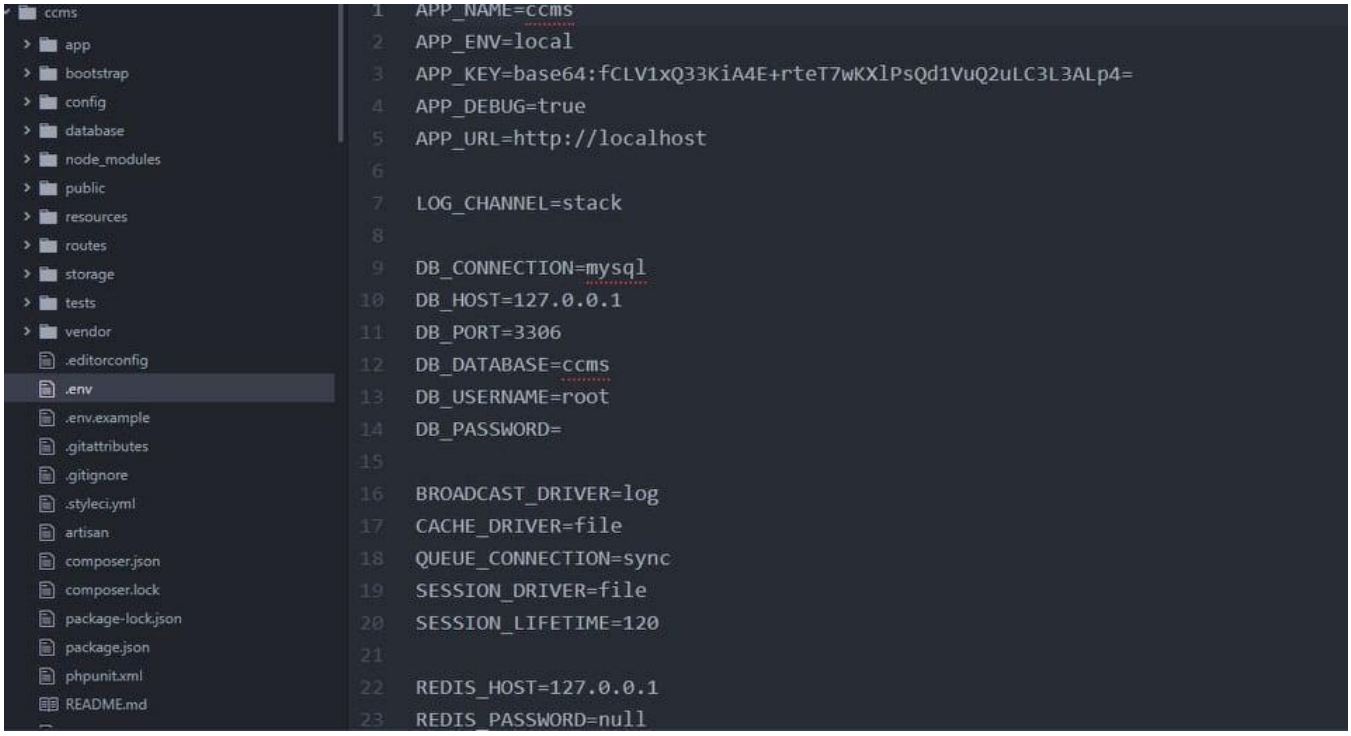


Figure 5.1: Database Connection PHP (Laravel FrameWork) Code

The PHP (Laravel) code has connected to the database, as shown in Figure 5.1. which is used to create storage and authenticate MySQL. Using PHP code, you can connect to a MySQL database and create one or more tables.

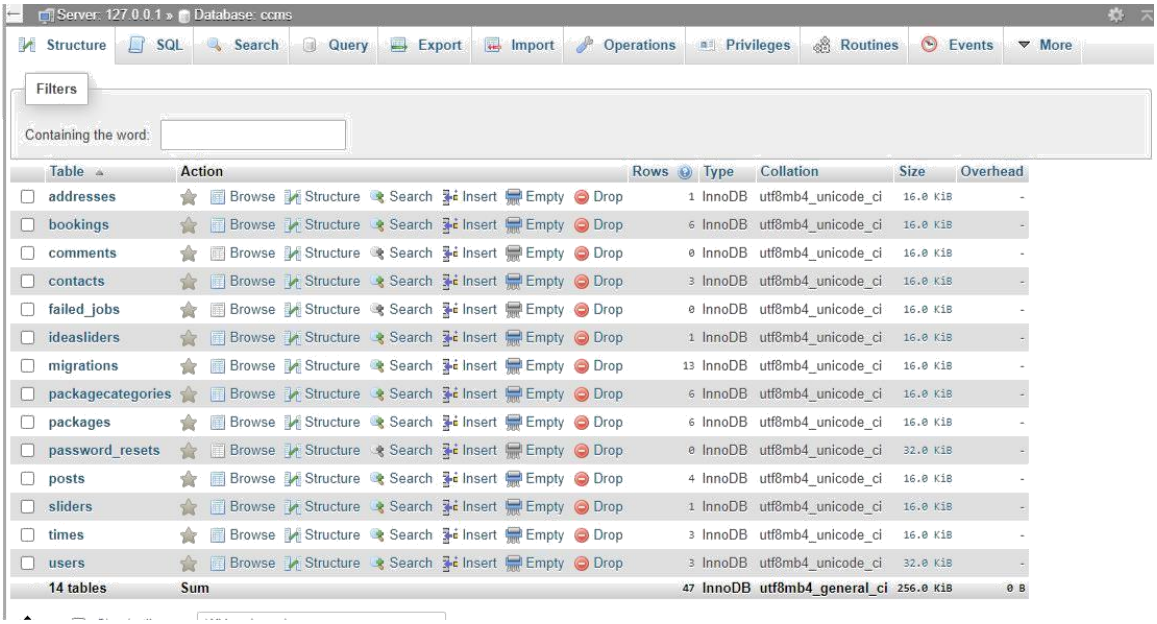


Figure 5.2: MySQL Database

The MySQL Database page is depicted in Figure 5.2. The database's table can be found here. such as the booking and address.

Remarks, bundle, bundles class, post, slider, times, client and so forth. An administrator may add new features and a new table to the authentication page for this database. Here, an administrator can also delete tables or features.

5.2 Integration of Front End Design

Developing a user-friendly interface is important for the success of any web application, as it can help to improve the user experience and encourage people to use the application. A simple and intuitive interface can make it easier for users to navigate and interact with the application, which can lead to increased satisfaction and engagement. It's also important to consider the specific needs and preferences of the target audience when designing the interface, as this can help to ensure that the application is accessible and appealing to the users.

People won't be interested in using the application if it requires a lot of effort to comprehend. We made every effort to create a user-friendly UI. There are two types of modules in our project: the admin module and the user module.

The user interfaces for these modules are shown below.

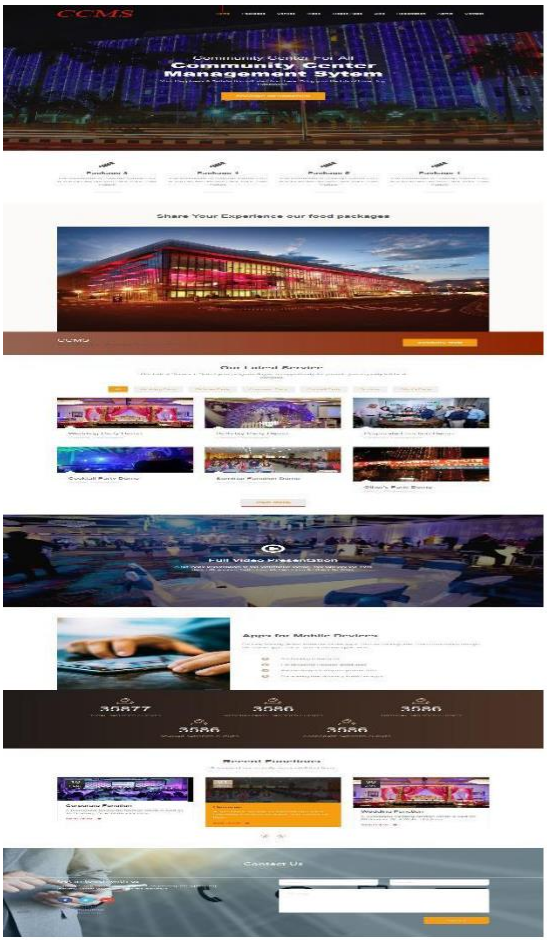


Figure 5.3: User Home Page

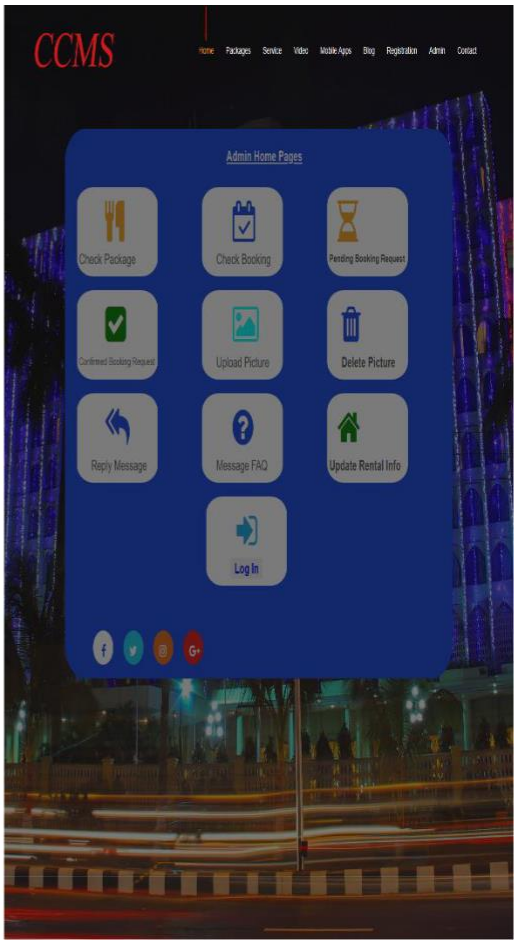


Figure 5.4: Admin Home Page

Figures 5.3 and 5.4 depict two distinct project home pages. I have developed numerous user-friendly features for these two modules. After the admin features, I'll start with the customer user features.

5.2.1 User Module

There are numerous components in the Client module that are not all depicted in figure 5.3. Consequently, I've highlighted additional module features here.

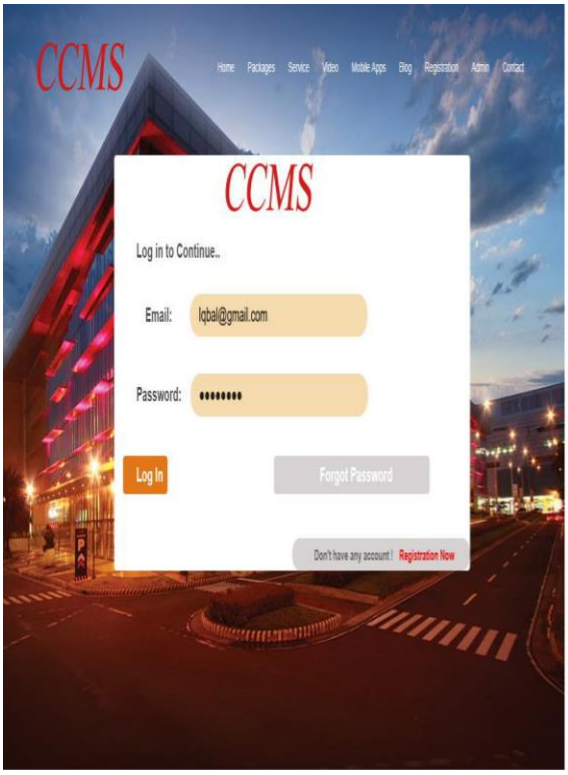


Figure 5.5: User Log In Page

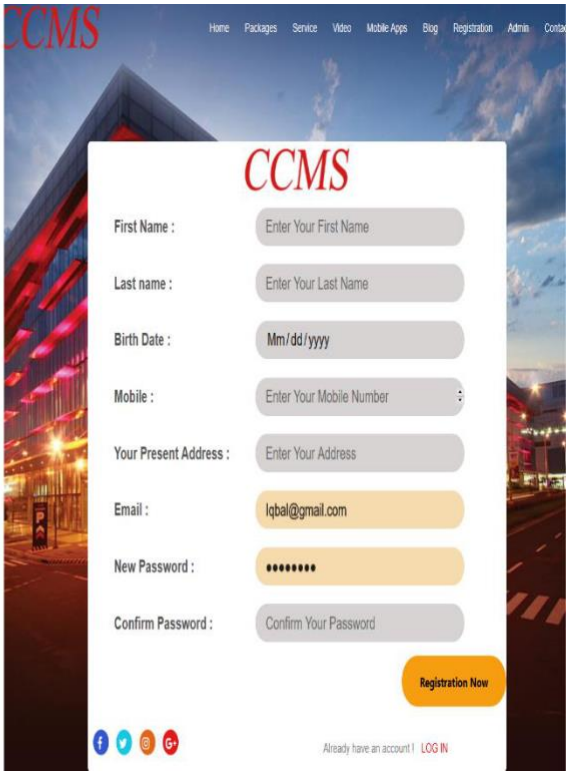


Figure 5.6: User Registration Page

Figure 5.7: After Log In

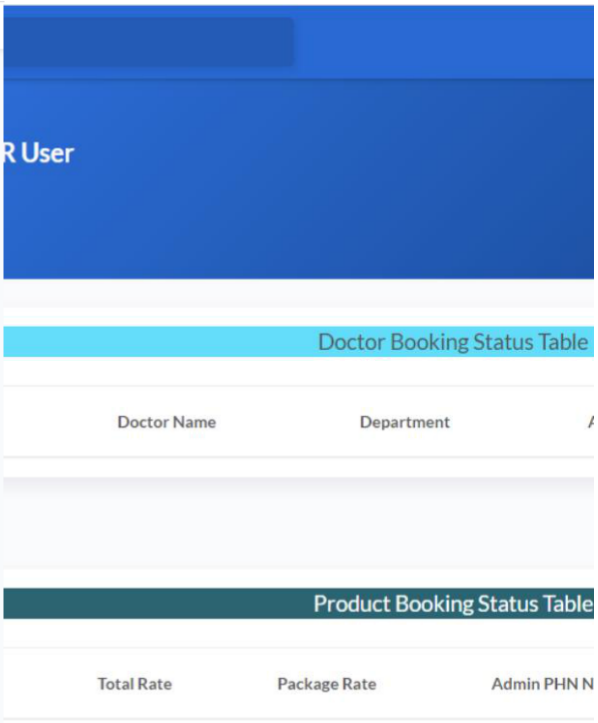


Figure 5.8: User Profile Update

Users can register on the website by providing accurate information. After entering a valid email address and password, they can access the system. If a user enters an invalid email or password, they will not be able to sign in and will receive an alert. If a user forgets their password, they can update their profile and password, as shown in Figure 5.8.

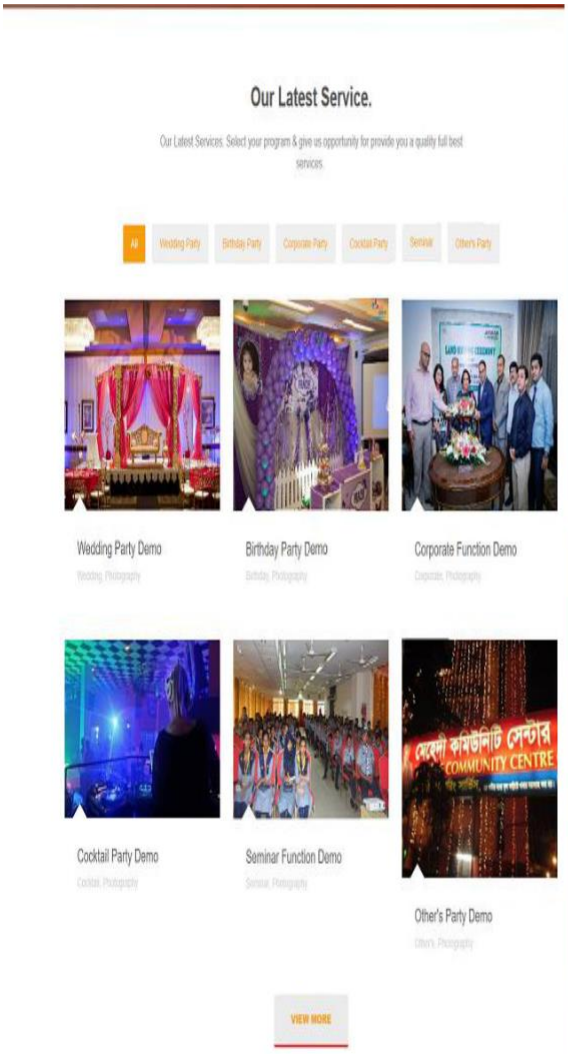


Figure 5.9: Gallery

Figure 5.10: Packages

Figure 5.9 depicts every kind of image from the project's gallery and service sections. which images have been uploaded by the website administrator.

We provided some food packages by doctor or nurse, each with a price, a picture, and a description of the platter in Figure 5.10. I only used one package here, but on this website, we offer five additional packages for all customer types. Also, any clients can pick their bundle as per their necessities and spending plans.

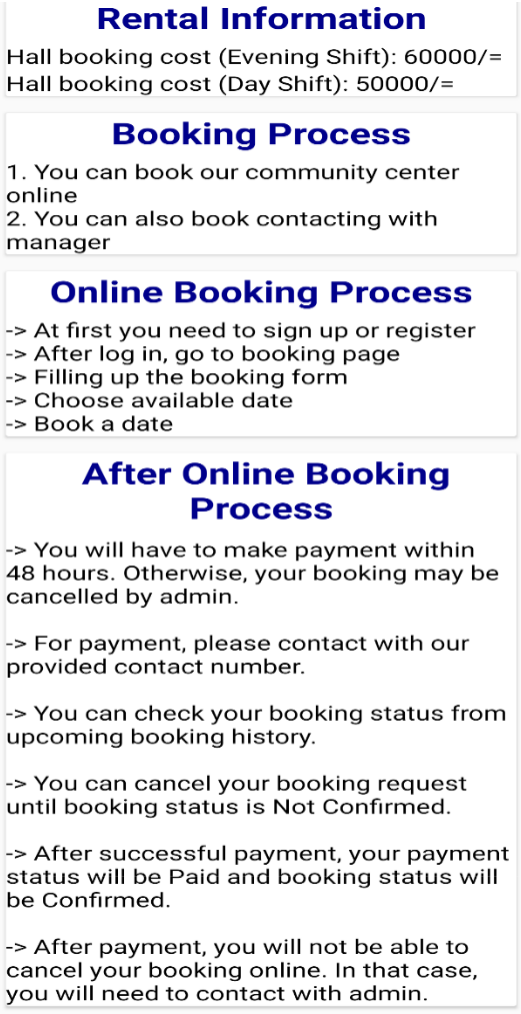


Figure 5.11: Booking Info Page

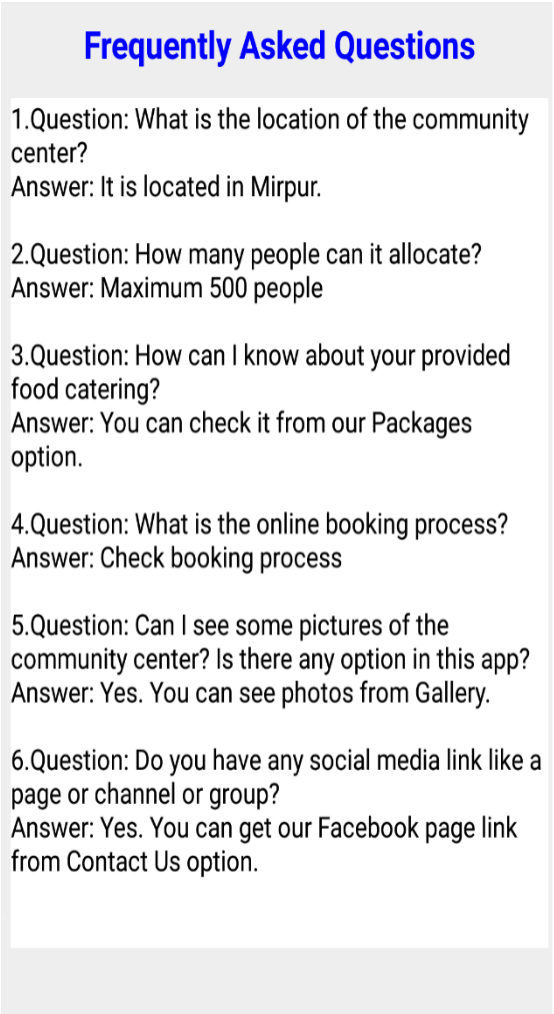


Figure 5.12: Frequently Ask Question

We were shown all of the information about the booking process in Figure 5.11. I make booking information pages. Additionally, we were shown Frequently Asked Questions (FAQ) pages for customers in Figure 5.12.

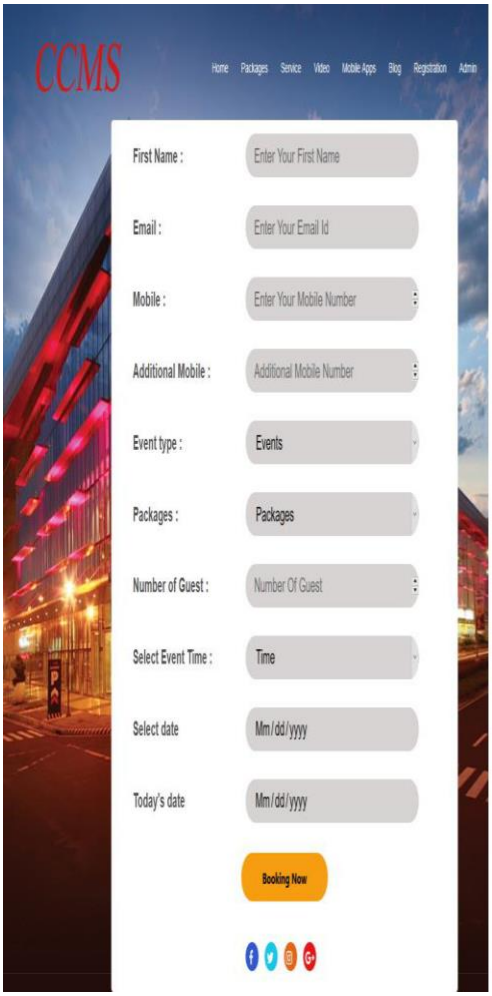


Figure 5.13: Reservation Page

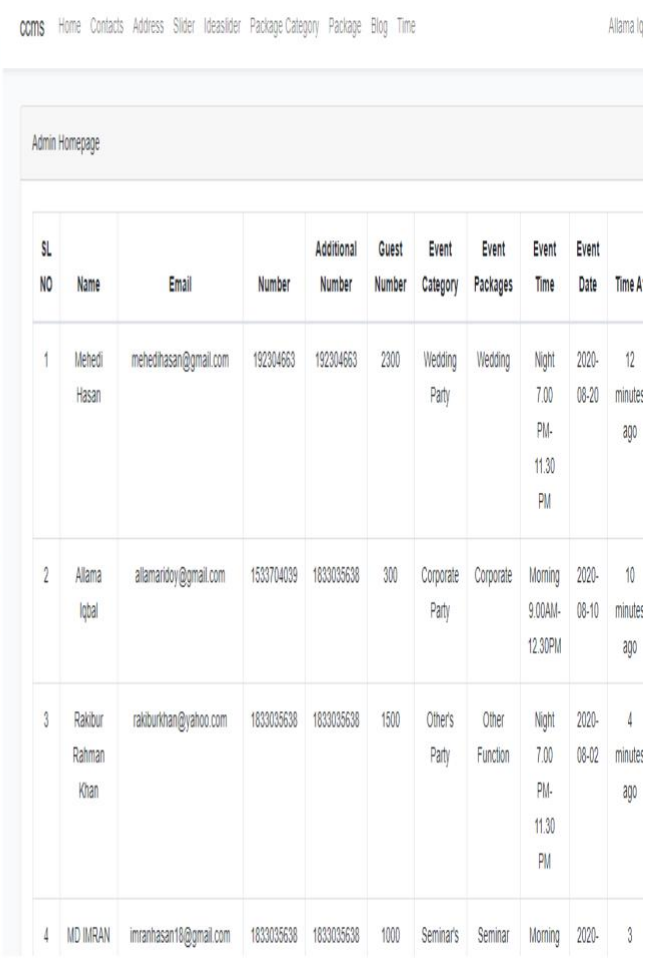


Figure 5.14: Reservation List

We were shown a page with the Booking Process form in Figure 5.13. Users can book doctors and nurses on their own. On the other hand, the Booking List of Users is depicted in Figure 5.14. Slots can be viewed from the User Table.

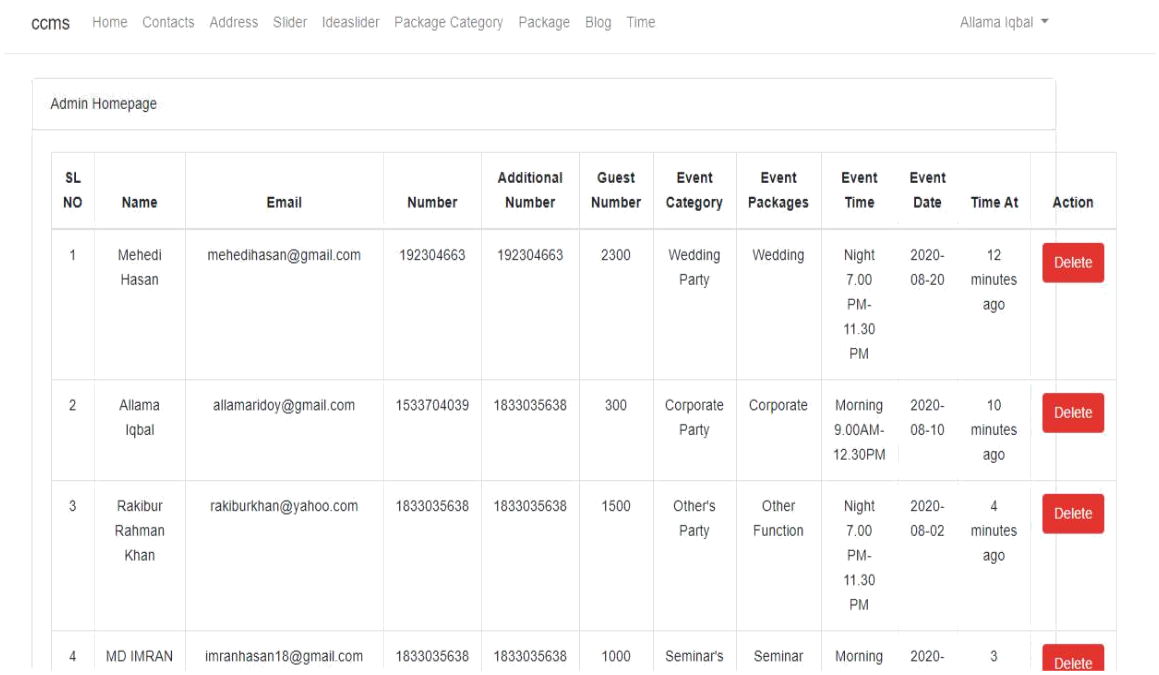


Figure 5.15: Admin Reservation Details.

Figure 5.15 shows a list of customer bookings. An administrator can use this list to confirm a customer's booking, or cancel it using the DELETE action. The list includes the name, email address, phone number, additional number, number of guests, event package, event time, date, and slot for customers who have reserved a doctor or nurse. The table can be accessed in the database to view all customer data.

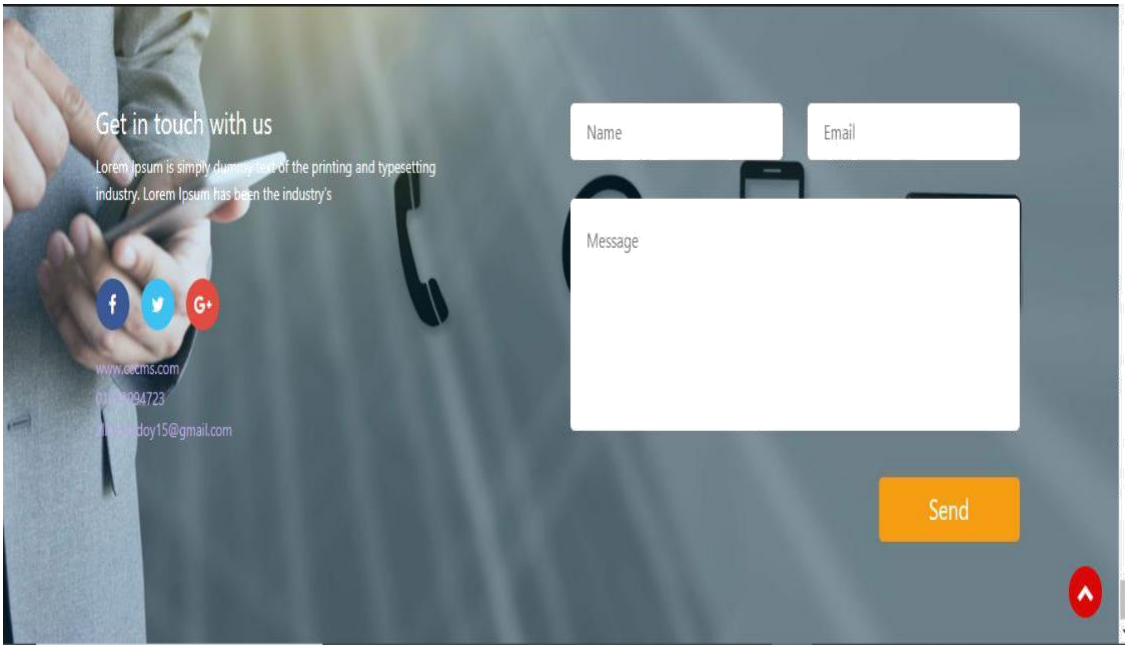
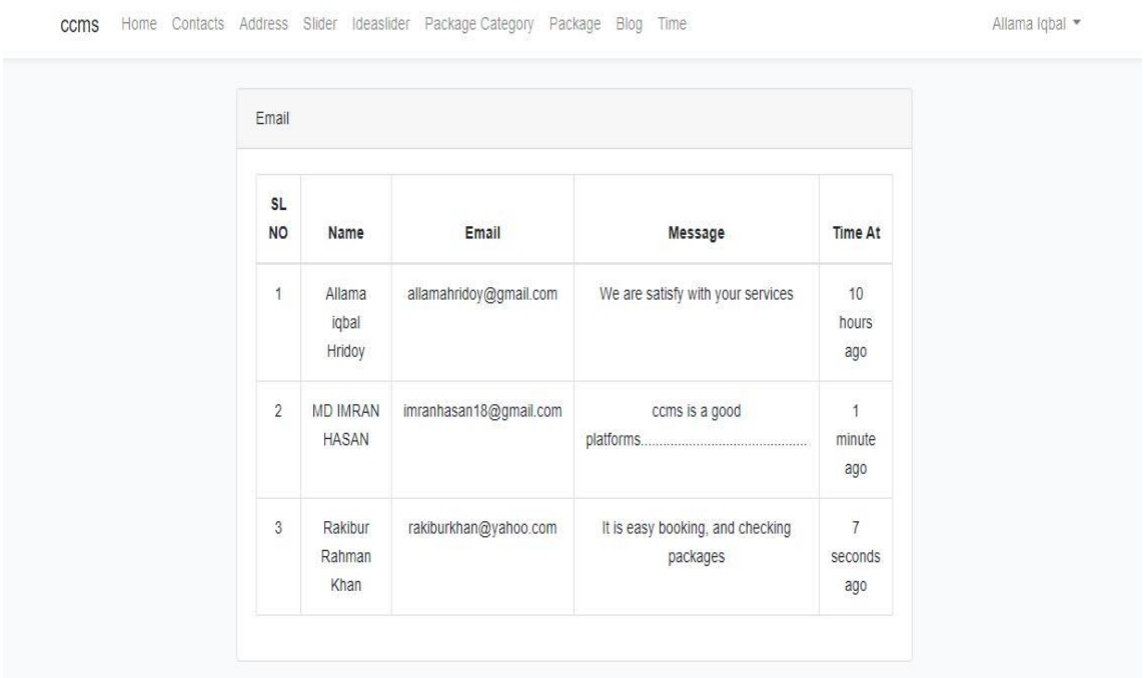


Figure 5.16: Feedback



SL NO	Name	Email	Message	Time At
1	Allama iqbal Hridoy	allamahridoy@gmail.com	We are satisfy with your services	10 hours ago
2	MD IMRAN HASAN	imranhasan18@gmail.com	ccms is a good platforms.....	1 minute ago
3	Rakibur Rahman Khan	rakiburkhan@yahoo.com	It is easy booking, and checking packages	7 seconds ago

Figure 5.17: Admin Reply Message

Figure 5.16 demonstrates that a user can use the Message option to send a message. However, the user must provide his Name and Email address so that an administrator can identify the sender as shown in Figure: 5.17 shows. As a result, users can send feedback, suggestions, or other messages for more information. By receiving this message from the user, an admin can respond. If the number of messages keeps going up at random, the administrator can delete them.

5.2.2 Admin Modules / Packages

Figure show that the features of the Admin Module: 5.4. Additional discussion is provided below this section:

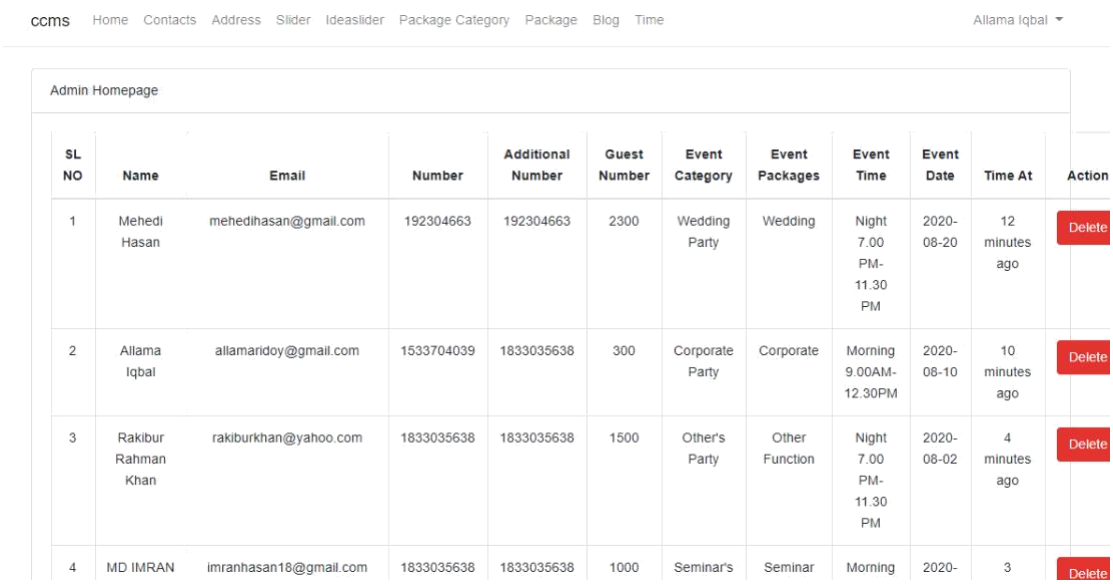


Figure 5.18: Admin Home Page.

The Admin Dashboard page is depicted in figure 5.18. Home, Contact, Address, Blog, Idea, Shop, Category, Doctors Search, and Time are among the additional pages an admin can access here. An authorized administrator of the doctor or nurse's website can control the entire website from this page. To become an administrator, they must register on the website page. The list of booking customers who have been reserved for the doctor or nurse is the first thing we see here.

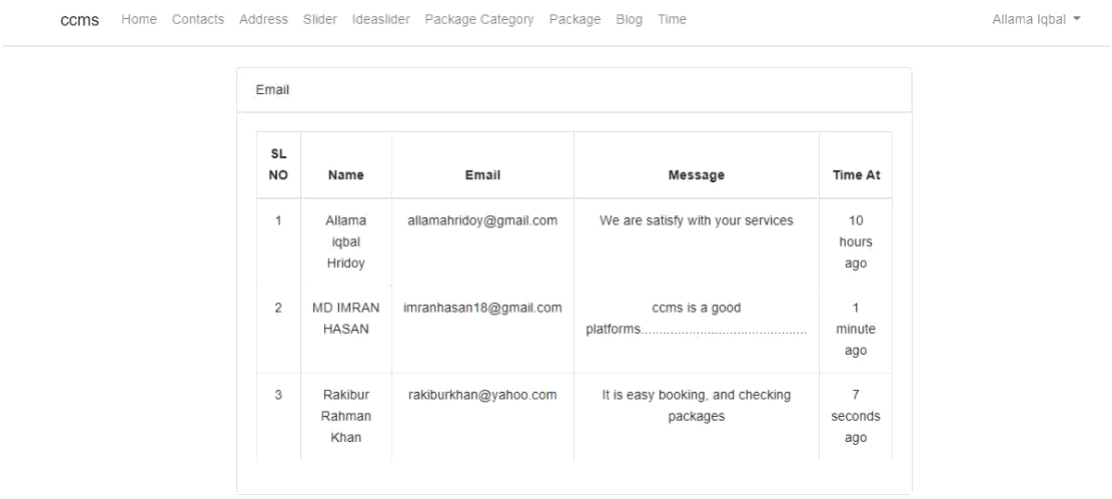


Figure 5.19: Contact page

Figure 5.19 depicts a user sending a message to an administrator via the user's contact page. Administrator can peruse this message from the administrator contact page. When customers send this message, there is time to understand. Additionally, the administrator has access to email addresses and customer names. This message can be replied to by admin.

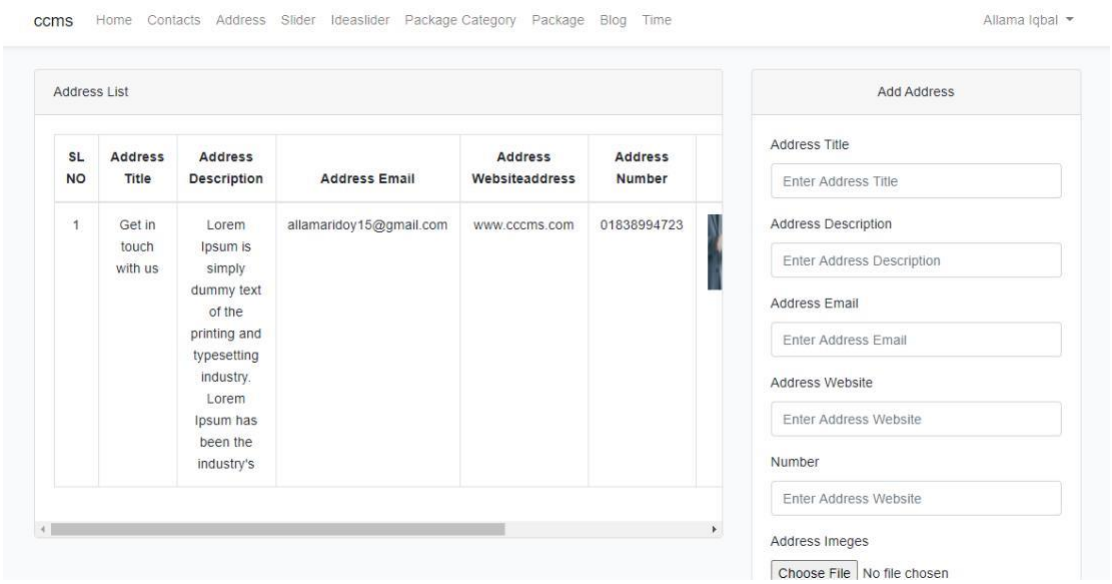


Figure 5.20: Admin Address List

The administrator can set this doctor's or nurse's address in Figure 5.20. The administrator can provide every bit of information, including a description, a phone number, the legitimate authority email address, and a mobile phone number. It will assist customers in obtaining accurate information.

Figure 5:21: Admin Confirmed Reservation list

Figure 5.21 allows an administrator to confirm client bookings from a list. The administrator can also cancel bookings using the DELETE action. The list randomly displays the names, email addresses, phone numbers, additional numbers, number of guests, event package, event time, date, and slot for customers who have reserved a doctor or nurse. The table can be accessed in the database to view all customer data.

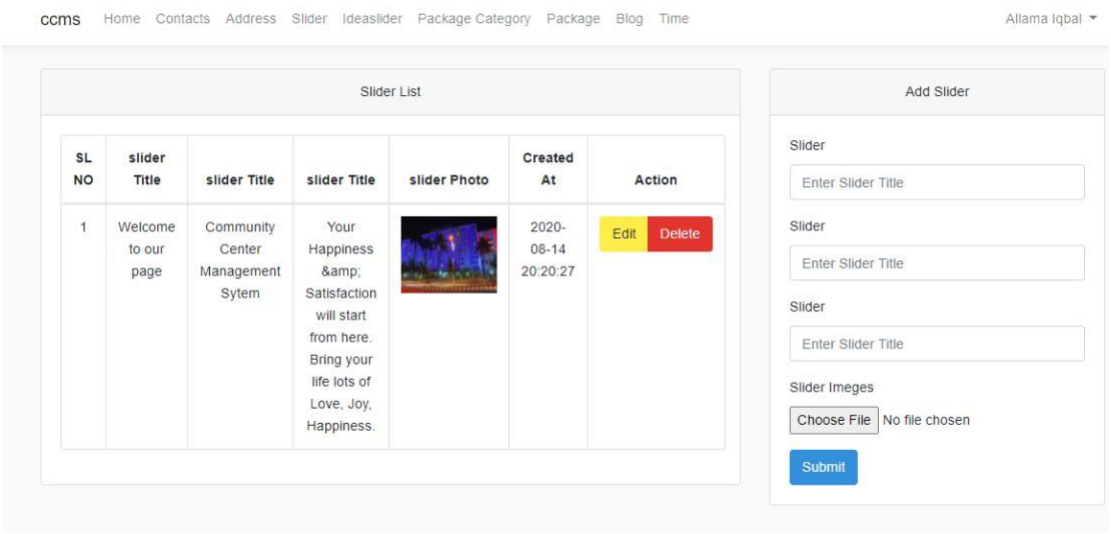


Figure 5.22: Products Page

The slider's title and description can be set by an administrator, who can also change the main page banner image. Here has the Altar and Erase choice to transfer and set the slider.

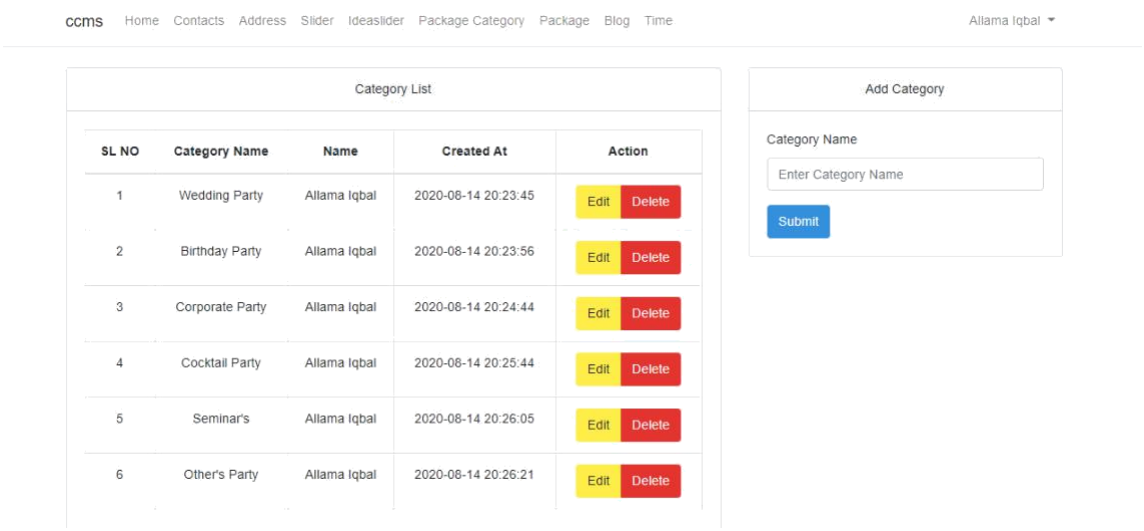


Figure 5.23: Category

Figure 5.23 displays the category, which has been authenticated by a reliable source. This category provides functions that are accessible to doctors and nurses

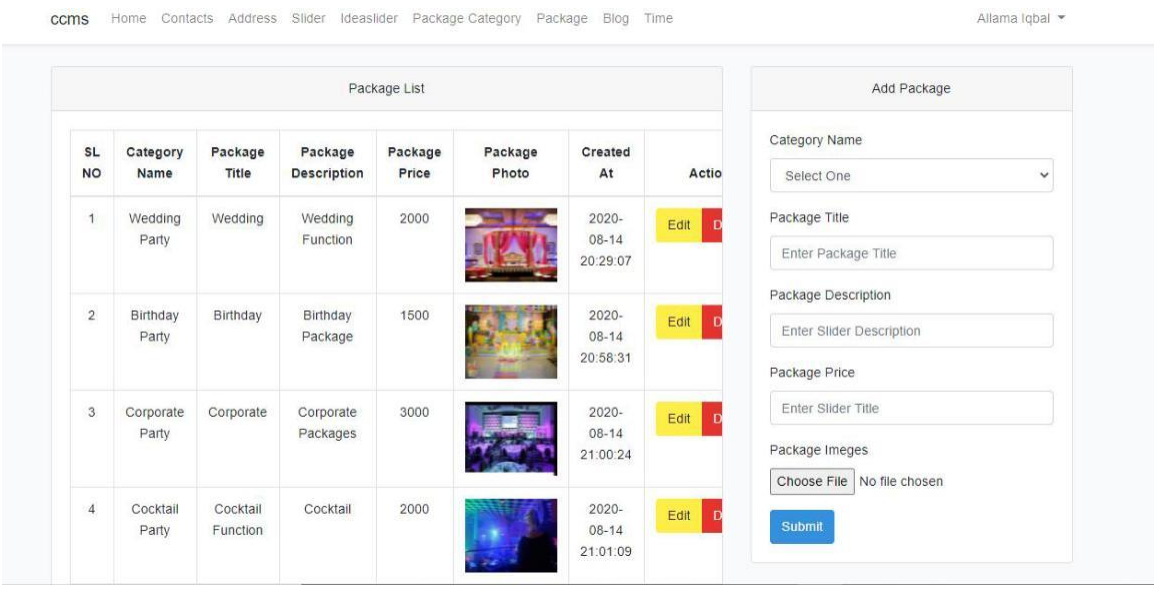


Figure 5.24: List

We can see the list of packages in Figure 5.24. Packages can be edited or deleted by admin. The admin added the package's price, image, and description. Additionally, there are times when the administrator sets it.

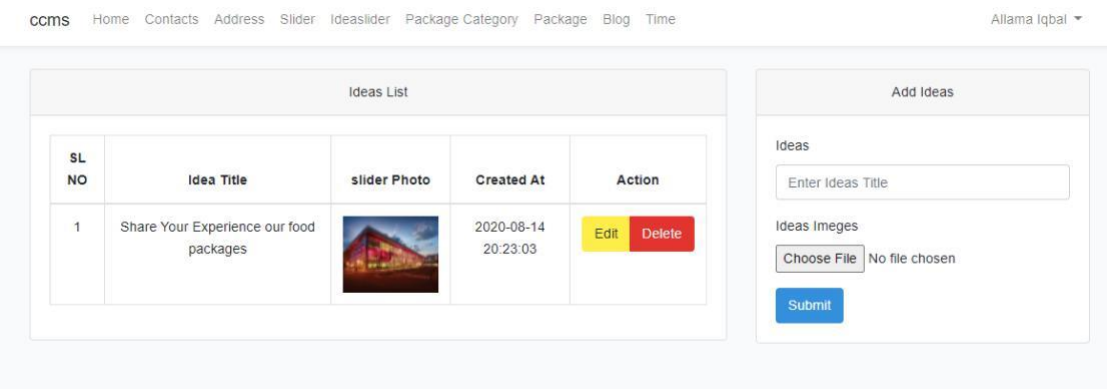


Figure 5.25: Admin Idea List

The page where an administrator can add a photo to an idea is depicted in Figure 5.25. Additionally, the ideal title and image can be set by an admin. Which can assist individuals with getting keen on this specialist/nurture. Two choices are available: This part can be edited and deleted.

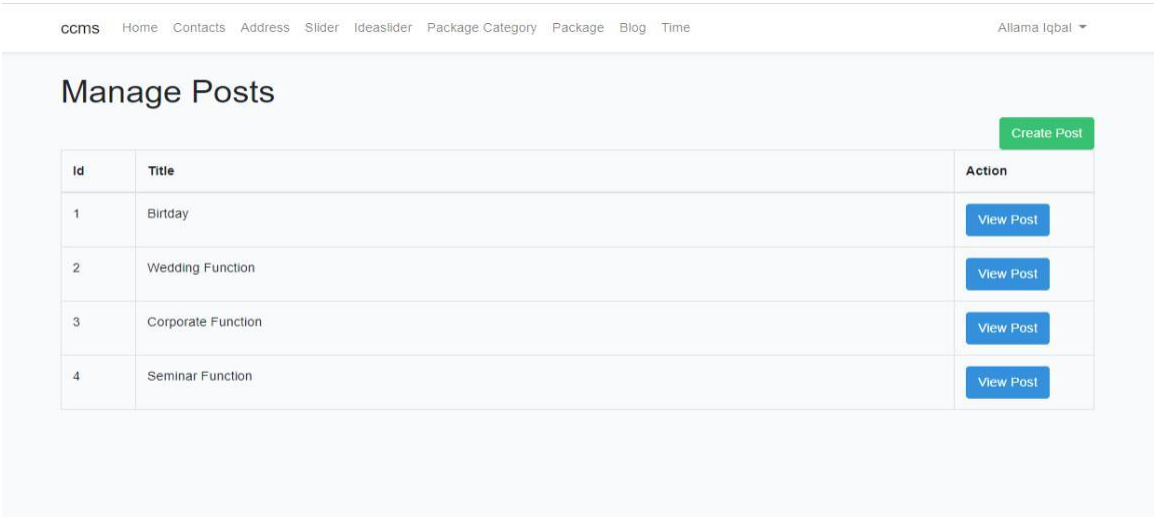


Figure 5.26: Blog Feature of Admin.

Figure 5.26 depicts a blog with a category of functions. Additionally, admin has the ability to create posts using that category function. From here, admins can view this function's post.

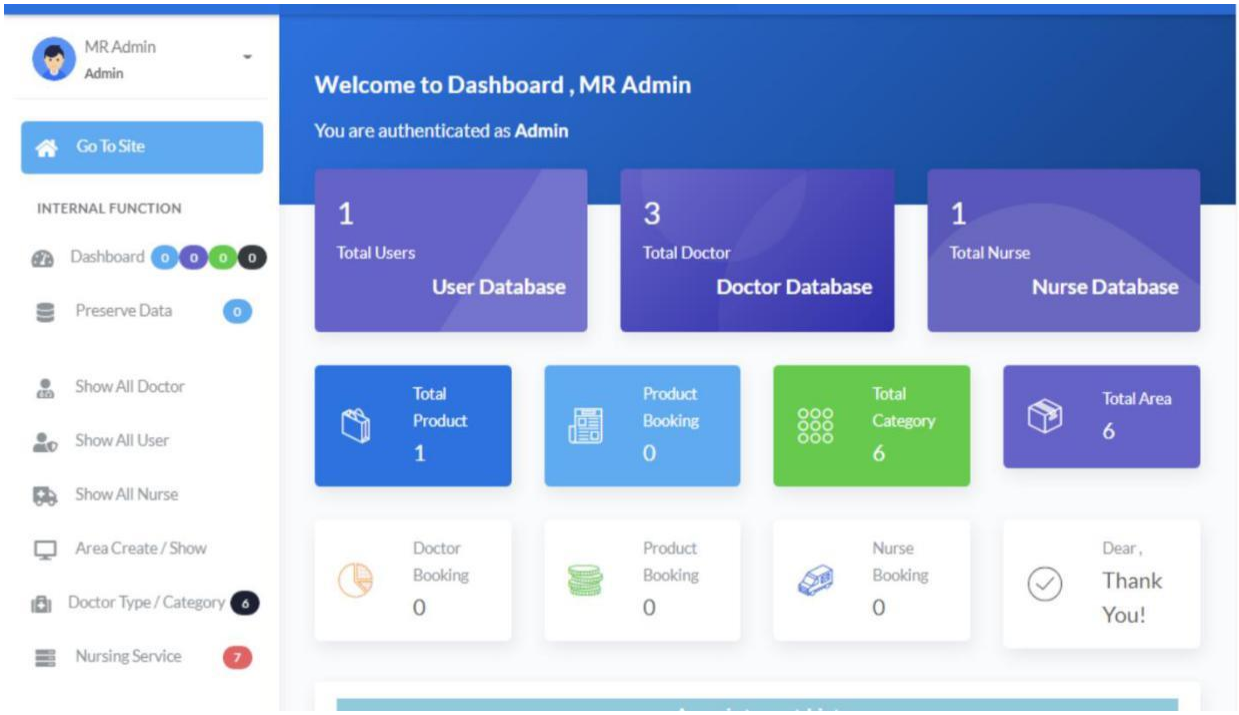


Figure 5.27: Admin Time List.

I demonstrated the event's time slot in figure 5.27. Individuals can pick their occasion opening as their decision. This time slot can be set, edited, or deleted by the admin. As a result, the administrator set the time list with the doctor or nurse's permission.

5.3 Implementation of Interaction

Any venture's prosperity relies upon intuitive applications. Therefore, its success is crucial to the project. Every person in our country who uses the internet expects applications that are easy to use. People won't be interested in any application that is too complicated. As a result, a user-friendly application placed a premium on my interaction. Along these lines, I made an honest effort to make this web application as easy to understand as could be expected.

5.4 Testing Report

Once I have successfully launched the web application, I test it thoroughly by using both the admin and user modules. Some examples of my testing process include:

Table 5.1: Testing Information and Date

Test Case	Test Input	Expected Outcome	Obtained Outcome	Result	Tested on
1. Customers Registration	Fill up form	Successful Registration of Customer	Successful Registration	Pass	07/11/2022
2. Customers User Registration	Your email field is empty	Alert Please give your username	Form is incomplete, Please complete all field	Pass	07/11/2022
3. Customers User LogIn	For log in please give correct password	Alert Please give your correct password	LogIn is error	Pass	12/07/2022
3. Customers User Sign In	Please enter your address	Successful Registration of Customer	Alert message "LogedIn Successfully"	Pass	12/11/2022
4.Send message	Enter your text	Click the send button for send	Successfully send message	Pass	25/11/2022
5.Customer Booking	Enter your address	Enter your address	Alert message "Enter your address"	Pass	03/11/2022

5. Customer Booking	Your given info is correct	Your booking is successful	Alert message "Booking Successful"	Pass	05/11/2022
6. Customer Booking	Your booking date fill up	No booking	Alert message Already booked	Pass	05/11/2022
7. Customer Booking	Your booking slot fill up	No booking	Alert message Already booked	Pass	07/11/2022
8.Admin Log In	Incorrect info	Your access is denied.	Your access is denied	Pass	07/11/2021
9.Admin Log In	Please Enter correct info	You have access to log in	Alert message show Admin Login Successful	Pass	02/11/2021
10.Edit packages List	Fill up Field	Your information is correct	Your field is correct	Pass	08/11/2022
11.Admin Booking	Select date and Slot	All Booking information successful	Your Booking Successful	Pass	08/11/2022

12.Admin confirmed booking	Press confirm booking	Shows booking confirmation	Alert message showed Booking Confirmed message	Pass	08/11/2022
12.Booking cancel by Admin	Press cancel admin	Shows Booking canceled	Alert message showed booking canceled	Pass	13/11/2022
13.Add new service photo by admin	Choose photo location.	Your is Photo upload successful	Alert message showed successfully uploaded	Pass	15/11/2021
14.Admin replies messages	Your message is too long..	Send message and update the list	Alert message showed removed this from list	Pass	20/11/2021
15.Delete a photo by admin	Select delete option for remove photo	Photo deleted and update Service	Alert message showed deleted and remove this from service	Pass	20/11/2021

16. Admin add a FAQ	Add a question for asking	Edit FAQ from Admin	Alert message showed successfully added	Pass	21/11/2021
17.Log Out	Click logout button	Log out the from the profile	Alert message showed Log out successful	Pass	25/11/2021

5.5 Testing Result and Reports

We want to test the application to find bugs. From the testing, I can identify numerous bugs. In addition, almost all of the bugs that I discovered have been fixed. More testing is required for my application than I can reduce in complexity. which are shown in Figure 5.1.

CHAPTER 6
CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

Any doctor or nurse can benefit from the Doctor / Nurse Management System's web application. This web application will provide benefits for both users and administrators. It will be easier for the owner and customers to run their business. They will benefit from the difficulties in terms of money and time. We plan to add new features to the platform based on requests from customers and center owners.

6.2 Scope for Further Developments

As with any project, there is always room for further development. Therefore, I also plan to continue working on this project in the future. Some of the ideas I have for future development include:

- A feature I can add is the ability to pay online during the reservation process.
- I am able to add notifications to each and every admin and user profile.
- Information about the book will be available for download.
- This web application's booking procedure can be enhanced by authority.
- Client and administrator login framework can be overhauled to foster security framework.

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APPENDIX

Appendix A: Project Reflection

I began to build this project from Fall-2022 It sounds like you put a lot of thought and effort into developing this project. Choosing a database like MySQL can be a good decision, as it is widely used and has a strong reputation for reliability and performance. Ensuring that the interface is user-friendly is also an important consideration, as it can help to improve the usability and adoption of the application. By reducing complexities and improving communication between owners and customers, the web-based doctor/nurse management system has the potential to be well-received by users and stakeholders. It's important to continue to test and refine the application to ensure that it meets the needs and expectations of the users and delivers value to the stakeholders. So, Web Based Doctor / Nurse Management System applications will be popular to all customers and owners.

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