

**PROJECT REPORT
ON
DIU HOSTEL**



**DAFFODIL INTERNATIONAL UNIVERSITY
DHAKA, BANGLADESH
SEPTEMBER 2022**

DIU HOSTEL

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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SEPTEMBER 2022

APPROVAL

This Project titled "DIU HOSTEL", submitted by *MIAH MOHAMMAD TAMJID*, ID No: 183-15-2238 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 * 13-09-2022 *.

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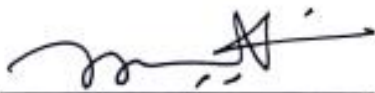
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DECLARATION

I hereby declare that, this project has been done by us under the supervision of Name, **Naznin Sultana, Assistant Professor, Department of CSE** Daffodil International University. I 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, I must acknowledge with due respect the constant support of my parents.

ABSTRACT

This The Internet and technology are the norm today. I can immediately meet my needs without going outdoors. Everyday items that I use is becoming more and more digitalized. I can readily connect with people now by using the internet, so I no longer need to write afterwards. The majority of students today leave their homes for quality education and reside in hostels. As university students, I believe that a student's hostel is crucial at this time. The era of technology is upon us. However, the majority of hostel reserves are old.

I make the choice to create a digital internet platform for the hostel as a result. Hostels abound at Daffodil International University. However, these are not computerized and are easier for students to utilize. I have created our project for our university as a result. Every student at Diu has their own unique ID and email address. This email helps us identify the Diu student. Students must first register using their Diu email address and password. A student uses our system as a legitimate user after successfully logging in. However, no one may use this service, such as booking seats, food orders, buy tickets, doctor appointments, etc without our email address. Daffodil can buy software to solve this problem. But my project has some specialty.

No one can access my software without a valid Diu email. It has a check-in and checkout option. So, I can easily track a student. But I have some limitations in this modern time most of the students use the digital payment method. But I cannot provide this service .in this time. For solving this problem, I can try to develop a digital payment gateway like cucumbers.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

The present age is the age of technology. We can solve everything wonderfully through technology. By being a student at Daffodil International University, for doing something for our university I made a hostel management system so that our university can manage its hostel activities smartly by using this website. Students can see Hostel activity, Room Book, Order Food from DIU Hall Canteen, Buy ticket from DIU Transport, Doctor Appointment from DIU Medical Center, Live Chat Support and see update notices from this website.

1.2 Motivation

The era we live in is a technological one. With technology, we can solve any problem perfectly. As a Daffodil International University student, I created a hostel management system as a way to give back to my school and help it run its hostel operations more efficiently. Students may access this website's Hostel Activity, Room Book, Buy Ticket from DIU Transport, Doctor Appointment from DIU Medical Center, Live Chat Support, and Update Notices.

1.3 Objective

Going to build a system for the management of our DIU hostel which runs manually now. As DIU is rich in applying technology in all of its fields, this going to be the next step in this process. This system includes and management software applying for online hostel registration, maintain student details, visitor details, doctor appointment, transport system, hostel canteen to order food and more facilities without any problem for hostel management. Helps new students to make decisions in choosing their rooms remotely by checking room conditions and book it immediately. A secure system that keeps track automatically of the presence of the students.

1.4 Expected Outcome

Project Features!

1. Hostel Room details.
2. Graphical view of the whole hostel.
3. Room Booking.
4. Food Order from DIU Hall Canteen.
5. Doctor Appointment from DIU Medical Center.
6. DIU Transport Ticket Booking.
7. Hall notices.
8. Alumni students review.
9. Live Conversation with Hall Authority.
10. Five Panels, Such as Student, Hostel Admin, Canteen Admin, Doctor Admin, Transport Admin.

1.5 Report layout

Our report has been organized as requested.

I will outline the foundation states of my endeavor in chapter 2. Additionally, I educated ourselves on the project's scope, difficulty, and obstacles, and I can conduct parallel research with a number of competing structures. I settled on the crucial endeavor in chapter 3. I discussed the ER design, streaming data diagrams, use case chart, business strategy display, and plan requirements. In addition, I looked at the necessity of gathering and research measures. The front- and back-end structures of the endeavor were illustrated in chapter 4. In chapter 5, I will provide usage examples for the entire task and all database-related data. I discussed the project's conclusion and additions for future development in chapter 6. Last but not least, I will provide some relevant references to confirm that the data in the report is accurate.

CHAPTER 2

BACKGROUND

2.1 Introduction

The internet platform has a variety of hostel administration websites, however they all have a few restricted and similar functions. However, I have an application that may help a student with all of his hostel-related everyday problems. I will going to create a system to replace the manual management of our DIU hostel. As DIU is rich in applying innovation in the entirety of its fields, this going to be the following stage in this process. This system includes management software applying for online hostel registration, maintain student details, visitor details, and more facilities without any problem for hostel management. Helps new students to make decisions in choosing their rooms remotely by checking room conditions and book it immediately. Not only that, students can sit in the room and order food from DIU Hall Canteen, you can buy the bus ticket from the DIU Bus Counter sitting in the room, Doctor can take appointment from DIU Medical Center. Here, a secure framework that keeps track naturally of the presence of the understudies and gets notice to guardians.

2.2 Related Work

I specified some of the connected works that I discovered here. Since my product is web-based, other projects that are comparable to it have already been made. They aren't quite the same, though. There are important distinctions, and I wish to draw attention to them here. amongst all of the other initiatives of a similar nature.

From what I can see, research work addresses the problems associated with managing and allocating housing to students at the College of Agriculture Lafia while avoiding those that arise when physical tasks are performed. The goal of this research project, "DIU Hostel" is to create an electronic system with a central data base that will automatically assign rooms to students and manage records related to the lodging. The system envisioned will keep track of all the available hotel rooms, their occupants, and assets generated from hotel expenses. Two categories of information auxiliary and important information were used to compile the data for this study. These are completed through meetings that are only loosely planned and by making use of the library's services for the purpose of better organization

by using course readings, journals, the internet, and other materials. PHP and MySQL was used to run the new framework. The DIU Hostel is incredibly useful for calculating lodging costs and ship expenses. This inn the boards program is designed for people who need to manage various inn activities. Since a few years ago, the number of educational groups has been rapidly increasing. As a result, there are more accommodations available for the comfort of the students focusing at this institution. Additionally, the person in charge of the hotel is under a lot of stress as a result, and programs are not typically used in this particular situation. I might conclude the sentence by saying that we found an inventive solution to my project. And my project undoubtedly resolved several novel issues that was completely unique.

2.3 Comparative Study

We already know that many sites can solve a student all his daily necessary problems in a hostel. In addition, they retain student information, apply for online hostel registration, request notifications, and many other functions that we have previously discussed. These characteristics are typical, and we all know that people are constantly seeking individuality. That is why I create this project with a few of the most essential services for our highly developed technology era. The majority of well-known websites are getting ready for the next phase, which includes Room Booking, Food Order, Buy Ticket, Doctor Appointment all of which we have previously completed. Moreover, a graphic representation of the entire hostel showing the vacant rooms. Therefore, in comparison, these distinctive qualities are our greatest power for advancing and making a difference.

2.4 Scope of the Problem

With the exception of what is unimaginable, we typically try to produce everything without any problems. Problems are problems, but there is also a gift in it. When I run into problems, I try to solve them, and by doing so, I pick up a lot of new skills. Throughout this project, I have also encountered a lot of problems. But I have dealt with those challenges thanks to my dedication and laborious effort. These referrals hurt me a lot because I have many businesses much like ours. As I as a whole realize that beginning an

undertaking from the scratch is an exceptionally troublesome activity. So, picking the interface and actualizing that in genuine was additionally a test. As understudies are identified with my task, so making it inviting and straightforward was my main goal. At that point for the underlying part, gathering all the softcopies and actualizing the backend was additionally a troublesome assignment. Furthermore, what to incorporate and so forth, by which work the understudies will be more open to, choosing these things was likewise an issue.

2.5 Challenges

When you need to do something, there will undoubtedly be some obstacles and problems in your way. Therefore, I also have to deal with the issue and a few difficulties. And I work to appropriately resolve it. First, I wish to use the PHP mail method for notifications to send an email. However, I lack a genuine server. I am unable to transmit it because of this. I will use SMS on our phones to address this issue. Even though it is expensive, I attempt to use a complicated query to solve the problem for the least amount of money. There is no registration system in a typical hostel administration system. First, I find a solution. Check-in and check-out procedures can be used to confirm their existence. I also send a notification to their parents.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Model

With the intention of decoupling, stretching, and automating the present system, BPM Processor Displays (BPM) is a step-by-step approach to utilize case systems testing, specification, business process management, and skeletal designing. BPM is often carried out by topic area specialists with understanding of certain processes, business detectives with expertise in another discipline, or both as directed by an organization concerned. On the other hand, the procedure uses mined techniques to get directly through the irregular logs to the irregular models. The goal of a firm is frequently to improve value, shorten the length of the process, or minimize expenses like labor, materials, waste, or capital expenditures. Additionally, the requirement to publish the requirements for data creation projects frequently encourages the administration to put up resources to exhibit company procedures. Any expanded corporate forms must be included in periodic changes management activities. The idea of BPM modeling is becoming fully operational as programming planning advances.

For our student and admin, we've included the business process [5] model below:

The following figure 3.1 shows the Business Process Model for Student of our system.

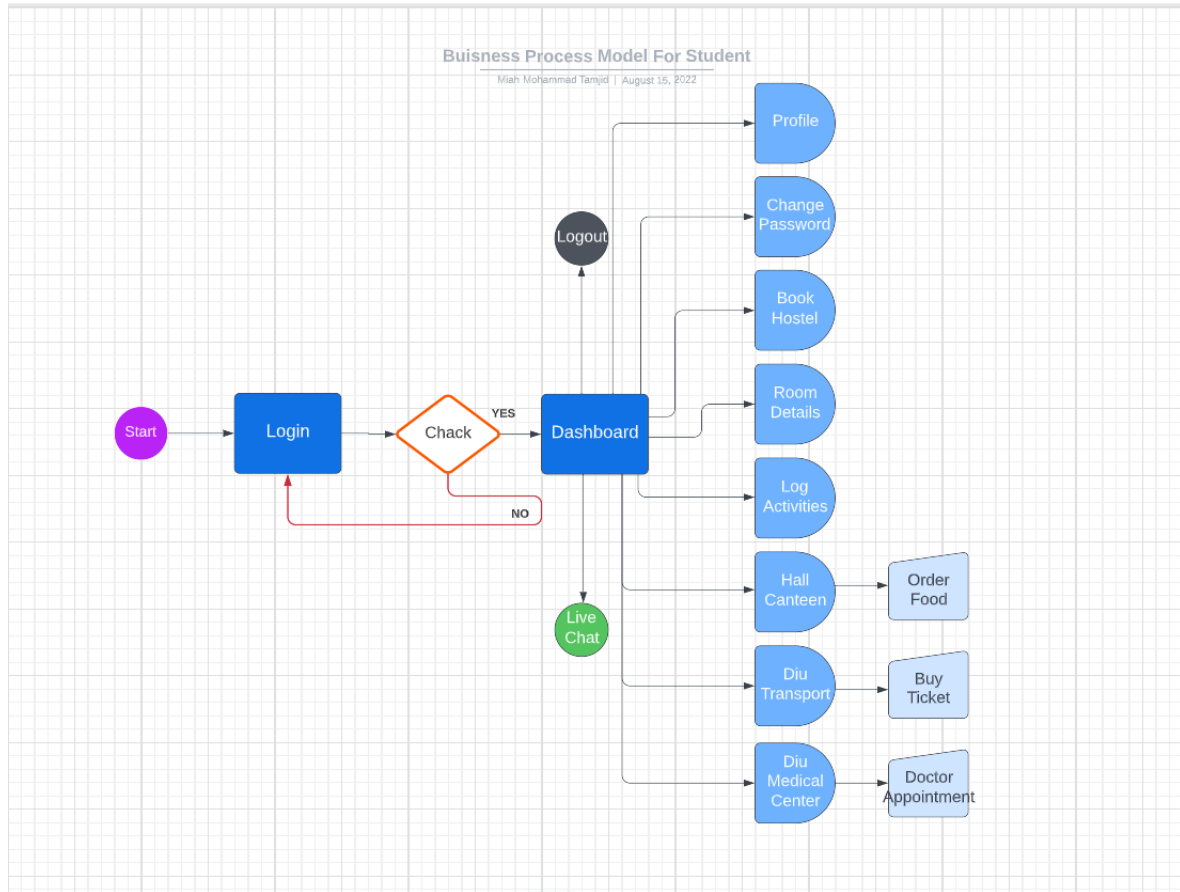


Figure 3.1: Business Process Model for Student

The following figure 3.1.1 shows the Business Process Model for Admin of our system.

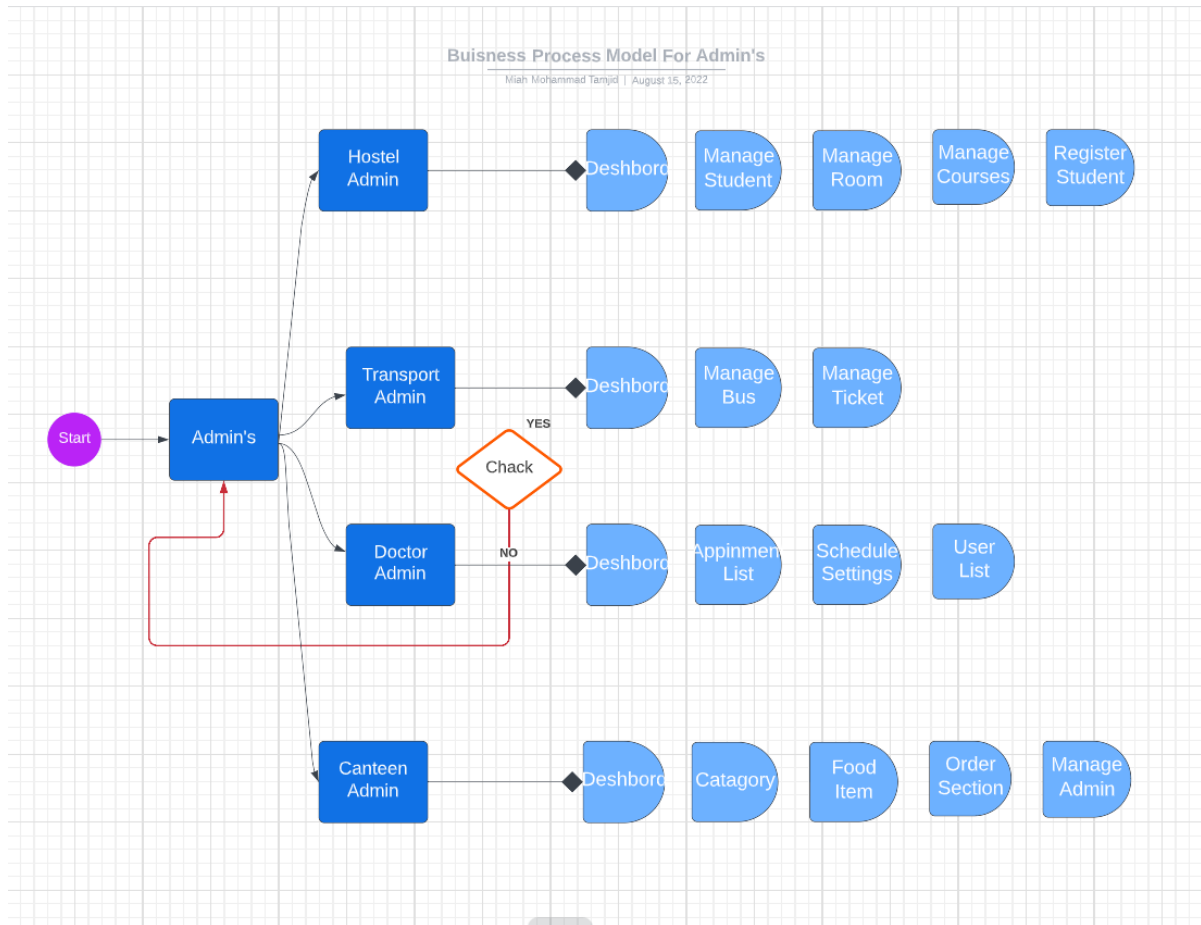


Figure 3.1.1: Business Process Model for Admin

3.2 Use Case Modeling and Description

Identifying, delineating, and organizing system needs are all done using the use case technique in systems analysis. In a particular context and with a certain objective, a collection of potential links between technologies and persons is developed. It comprises of a collection of elements (such a class and an interface) that, when utilized together, have a stronger impact than the total of their separate effects. All systems actions that are significant to the user should be available to them. A users can be understood as a set of potential circumstances connected to a certain purpose; in fact, usage and the aim are frequently regarded as equivalent.

A use case contains the following features:

1. Use to create criteria that are utilitarian.
2. Simulating how the character relationships on screen should function.
3. Note the path from the trigger event to the objectives.

3.3 Use Case Model

A use case [3] illustrates how a client makes use of a framework to accomplish a certain goal. In order to conceive, a use case overview connects the structure, the related use cases, and the performers.

The following figure 3.2 shows the Use Case Model of our system.

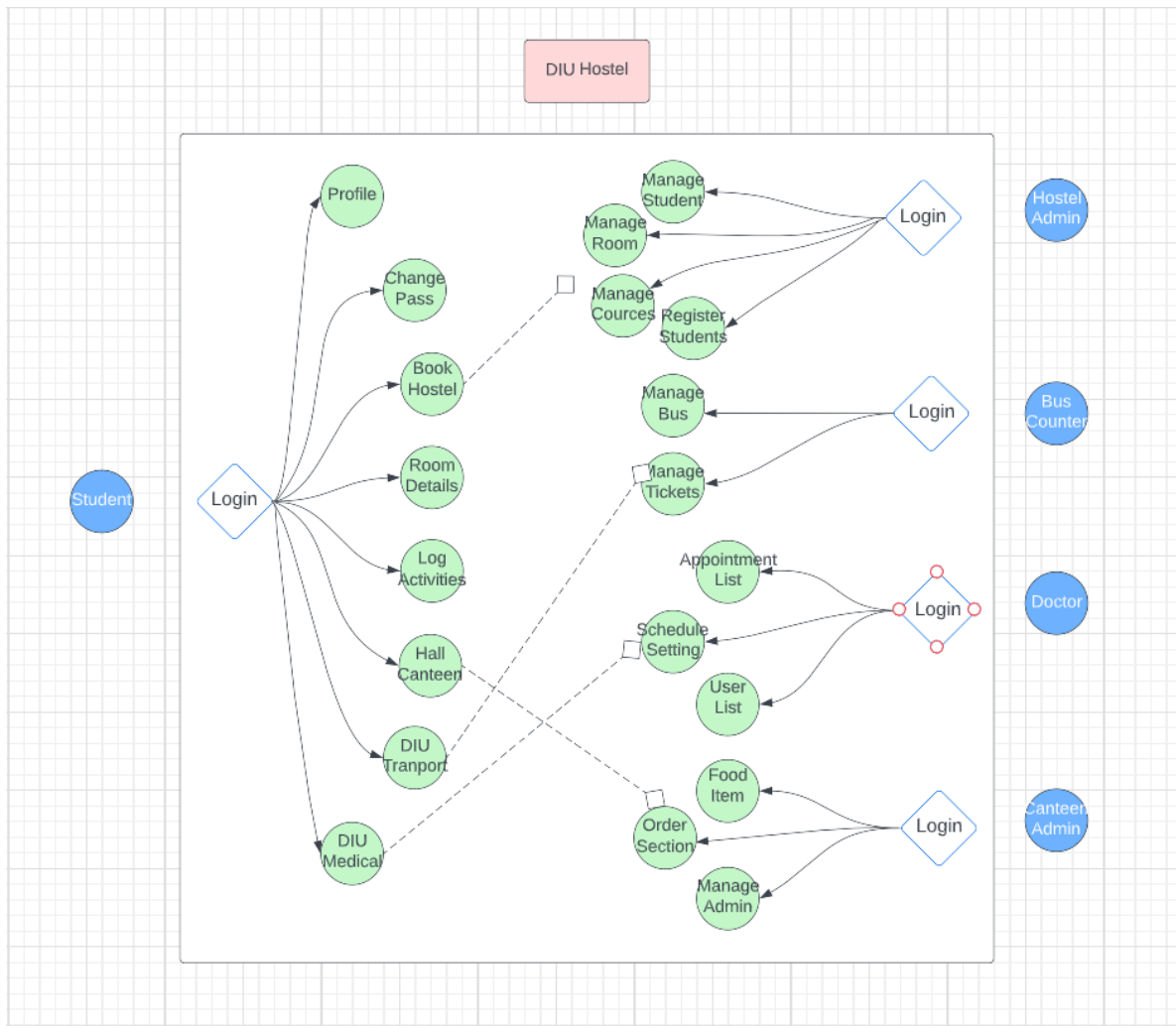


Figure 3.2: Use Case Model.

3.4 E-R Diagram

Entity Relationship [4] Diagrams, often known as ERDs, are outlines that describe the relationships between sets of elemental relationships that are to be stored in a database. An ER diagram is a representation of an ERD.

The following figure 3.3 shows the E-R Diagram of our system.

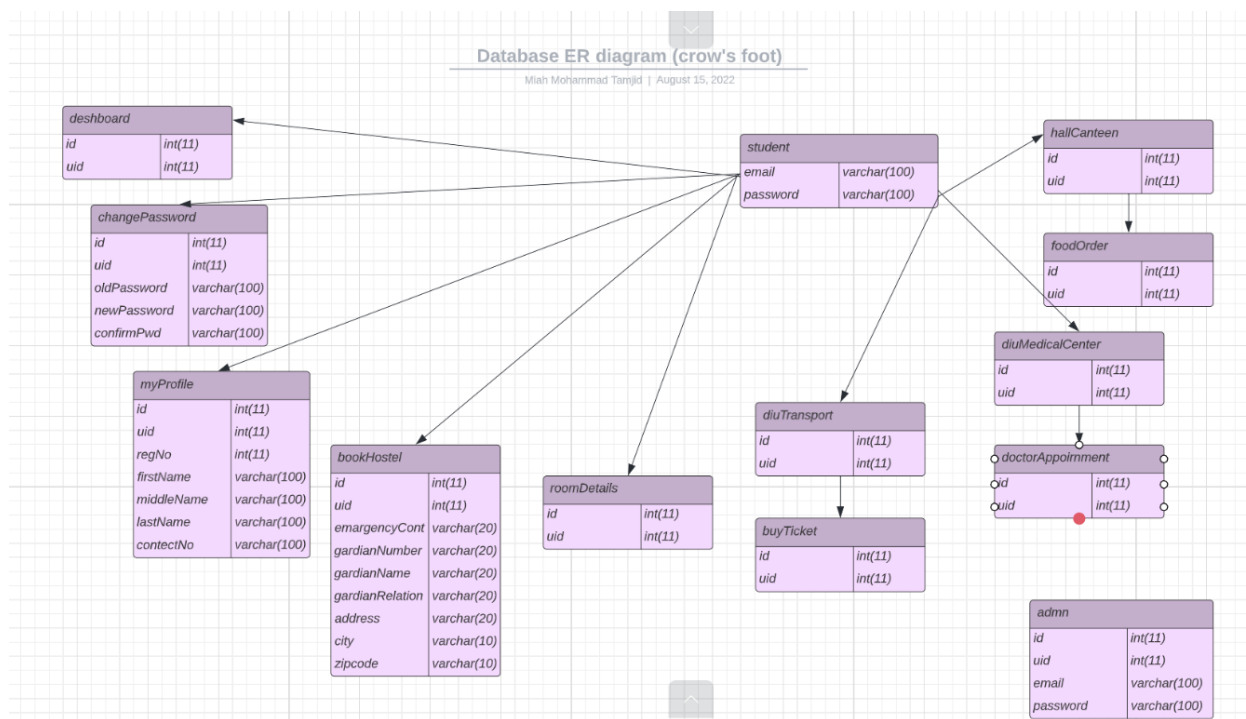


Figure 3.3: E-R Diagram.

3.5 Data Flow Diagram

A common way to [5] visualizes the data flows within a system is through a data flow diagram (DFD). A perfect and transparent DFD can visually depict a good portion of the framework's necessities. It might very easily be manual, mechanical, or a combination of the two.

The following figure 3.4 shows the Flow Chart Diagram of our system.

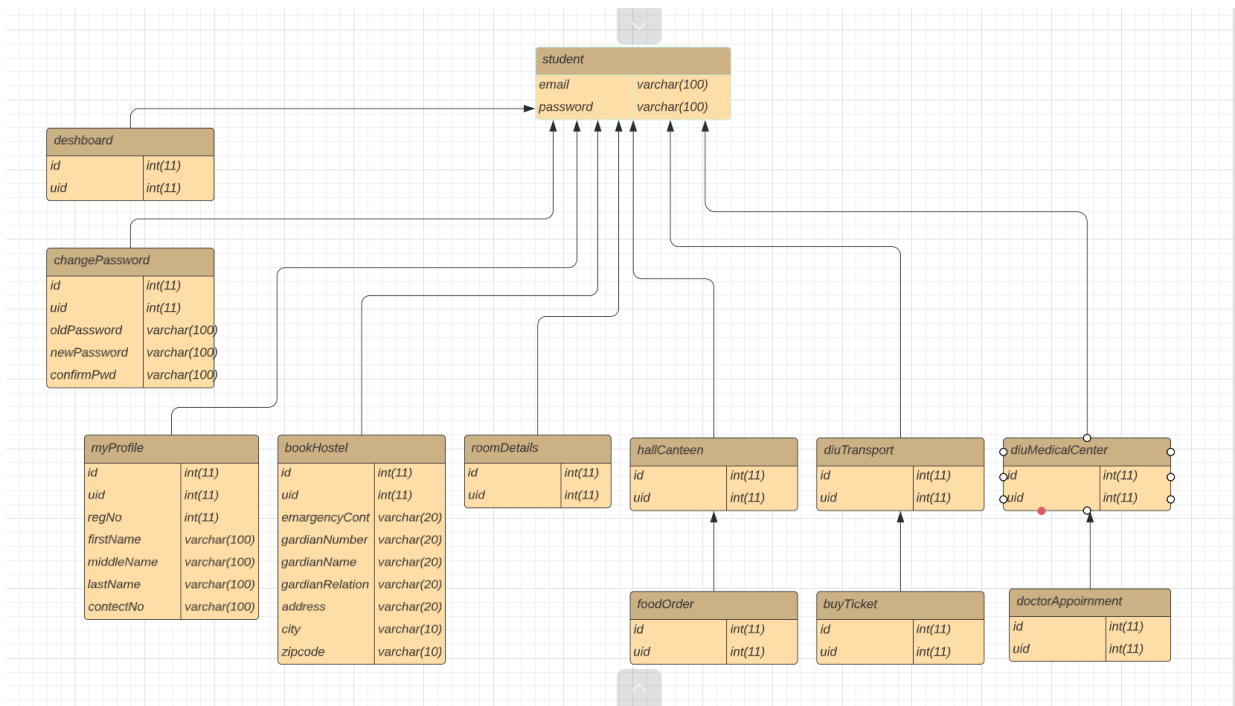


Figure 3.4: Data Flow Model.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Design Specification

Front end configuration is an urgent piece of any client cooperating programming and website. Since a client can be anybody, somebody may like straightforward plans, somebody may like very plan situated things. Be that as it may, the truth of the matter is I can't fulfill all. So, I need to accompany something helpful to all. What's more, I additionally need to ensure that it is reasonable to all.

4.2 Front-End Design

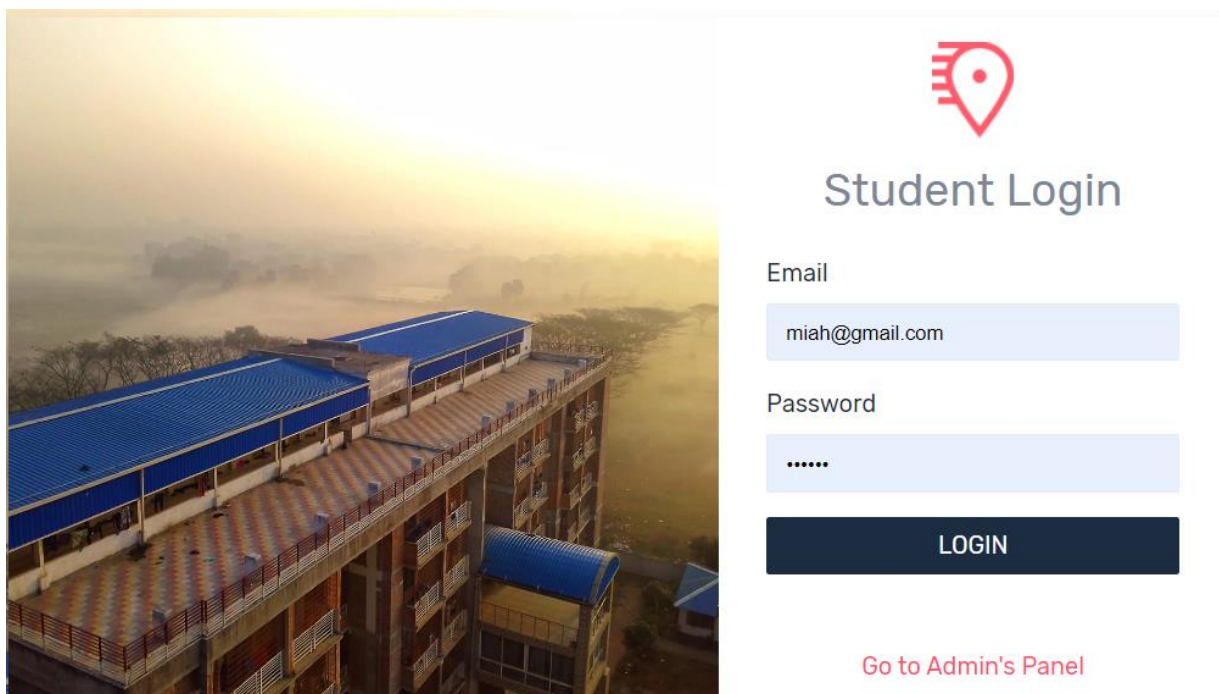


Figure 4.1: Student Login page.

The student must log in on this login page first with his DIU mail and password. Anyone other than a university mail account is not allowed to log in.

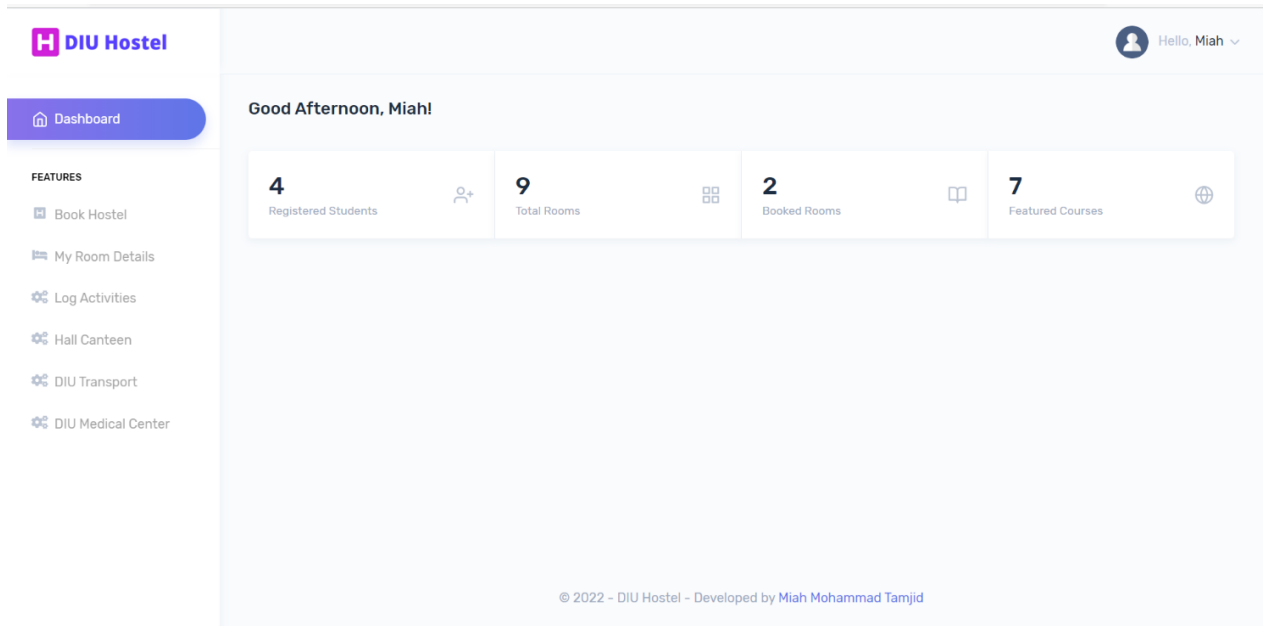


Figure 4.2: Student Dashboard page.

When a student Login properly, they can see this page.

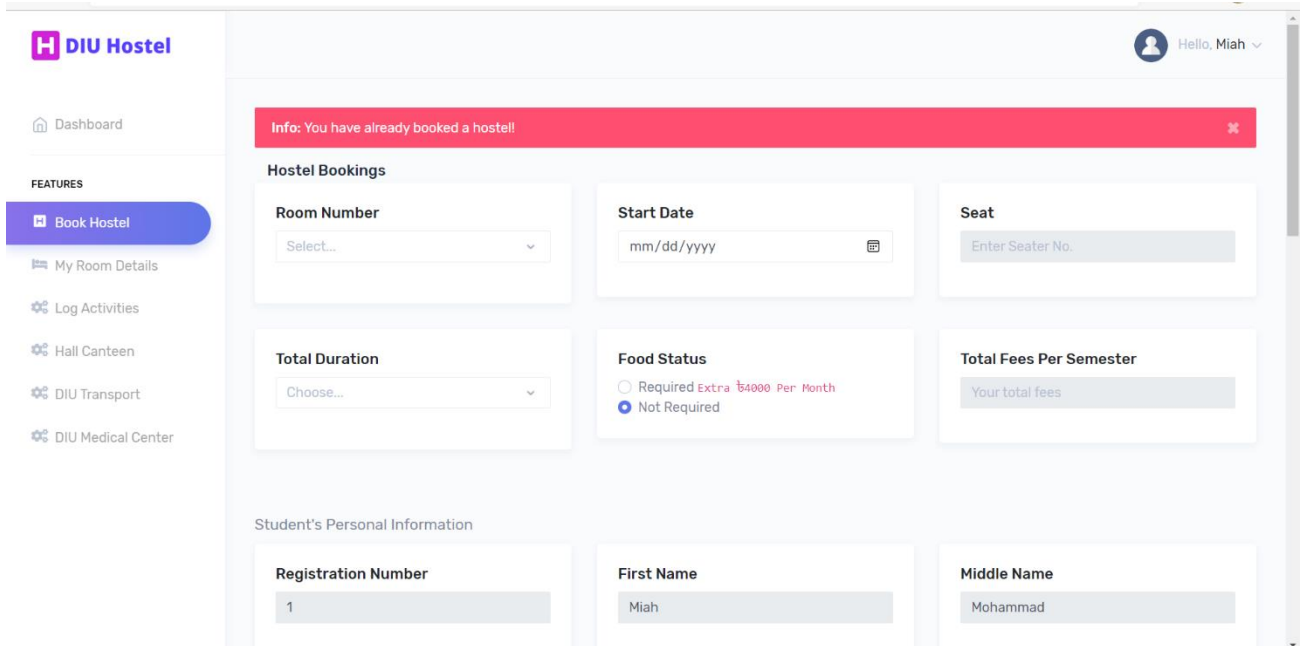


Figure 4.3: Student Book Hostel Page.

From here, the student can book the seat of his choice and see the seat rent and food cost.

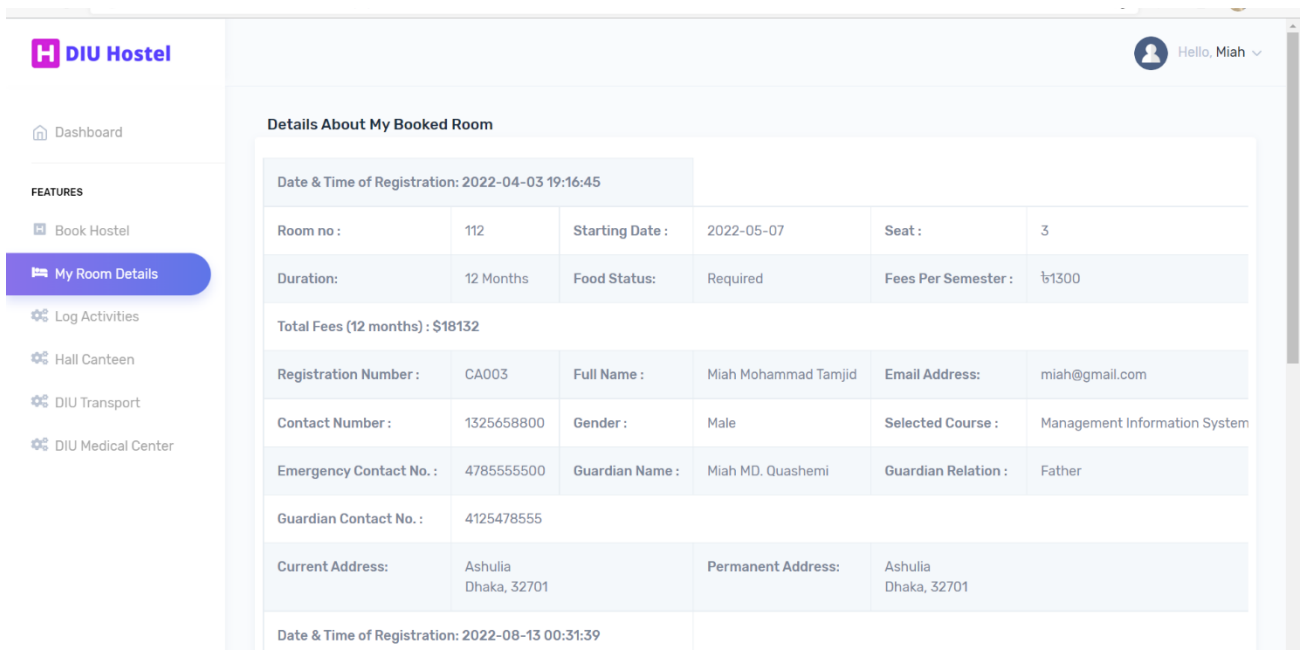


Figure 4.4: Student Room Details.

From here, a student can see hostel and hostel room information.

The screenshot shows the 'DIU Hostel' dashboard. On the left is a sidebar with navigation options: Dashboard, Book Hostel, My Room Details, Log Activities (highlighted), Hall Canteen, DIU Transport, and DIU Medical Center. The main content area is titled 'My Log Activities' and contains a table with the following data:

#	User ID	IP	Email	City	Country	Logged In Time
1	10	:::1	miah@gmail.com			2022-08-10 12:53:17
2	10	:::1	miah@gmail.com			2022-08-10 13:45:24
3	10	:::1	miah@gmail.com			2022-08-11 15:23:33
4	10	:::1	miah@gmail.com			2022-08-11 17:35:34
5	10	:::1	miah@gmail.com			2022-08-13 00:19:45
6	10	:::1	miah@gmail.com			2022-08-13 00:55:08
7	10	:::1	miah@gmail.com			2022-08-13 01:00:58
8	10	:::1	miah@gmail.com			2022-08-13 14:22:32
9	10	:::1	miah@gmail.com			2022-08-14 23:39:03

Figure 4.5: Student Login Activities.

From here, a student can see Login activities.

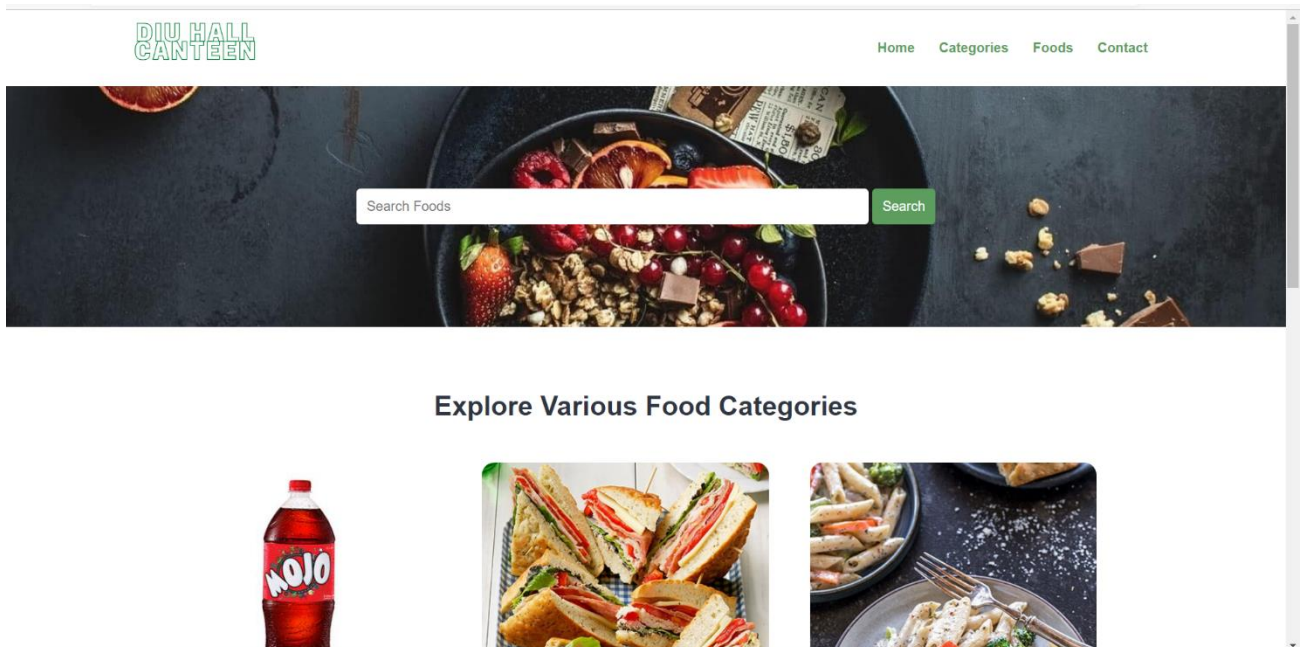


Figure 4.6: DIU Hall Canteen to Food Order page.

From here, a students can sit in the room and order food from DIU Hall Canteen.

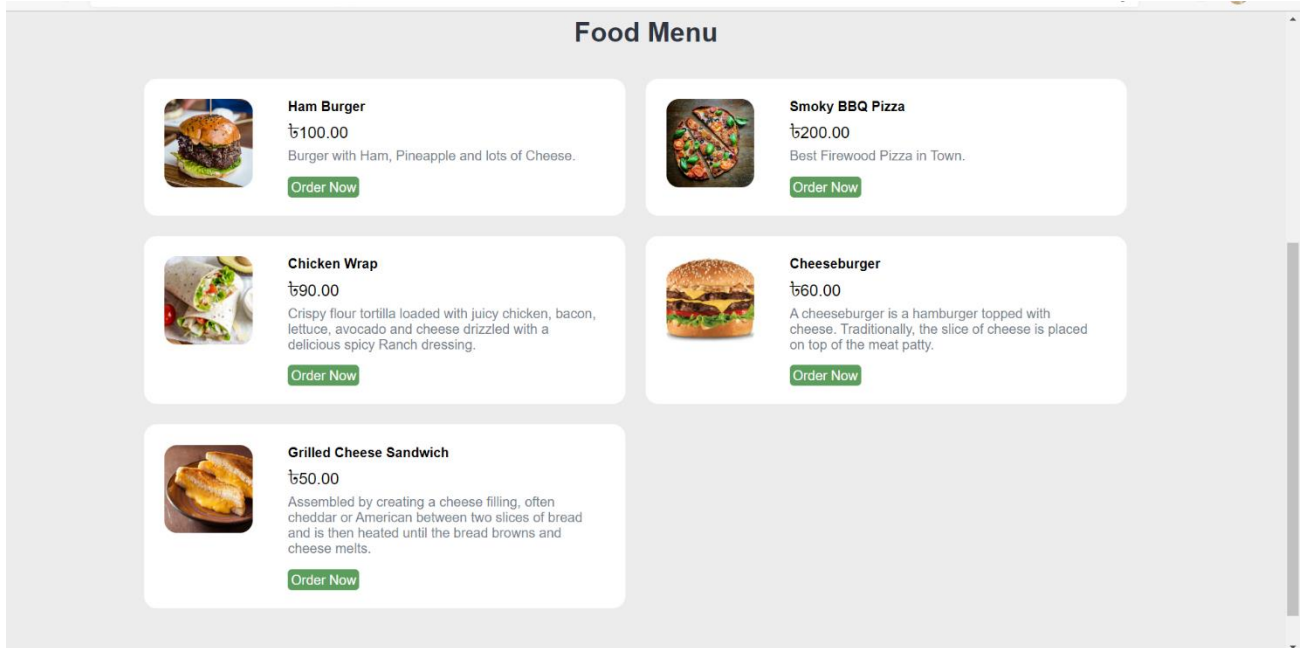


Figure 4.7: Food choose and order.

From here, a student can choose his favorite food.

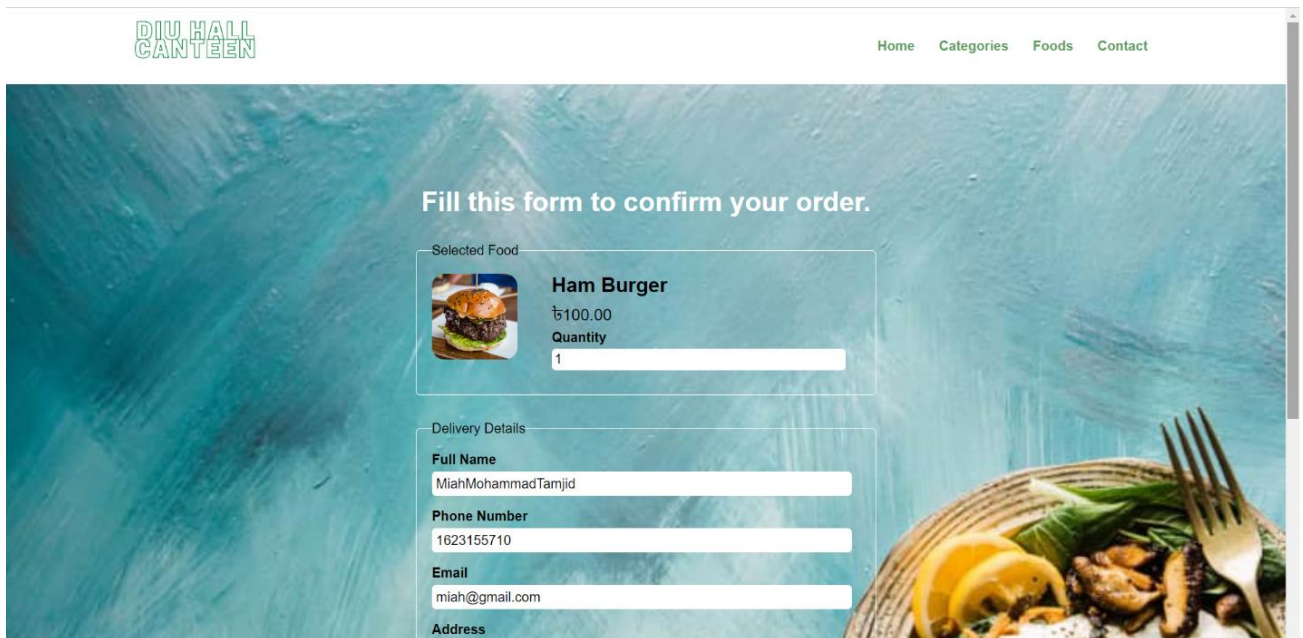


Figure 4.8: Order confirm page.

From here, a student can confirm the order.



Schedule Appointment Now

Figure 4.9: DIU Medical Center page.

From here, Doctor can take appointment from DIU Medical Center.

Appointment Form

Fullname MiahMohammadTamjid	Address <input type="text"/>
Email miah@gmail.com	Appointment mm/dd/yyyy --:-- --
Contact 1623155710	
Gender Male	
Date of Birth mm/dd/yyyy	

Submit Appointment Cancel

Health is wealth. A healthy body and a refreshed mind lead to a positive working atmosphere. Daffodil International University (DIU) always cares for students, teachers and employees. Students and employees may become sick while class and office running. They may be required emergency medical care, where DIU is strictly complying will emergency as well as first aid as and when needed. DIU medical center always aims to ensure prompt healthcare support for all the Students

Figure 4.10: Doctor Appointment Form.

From here, a student can appointment Doctor.

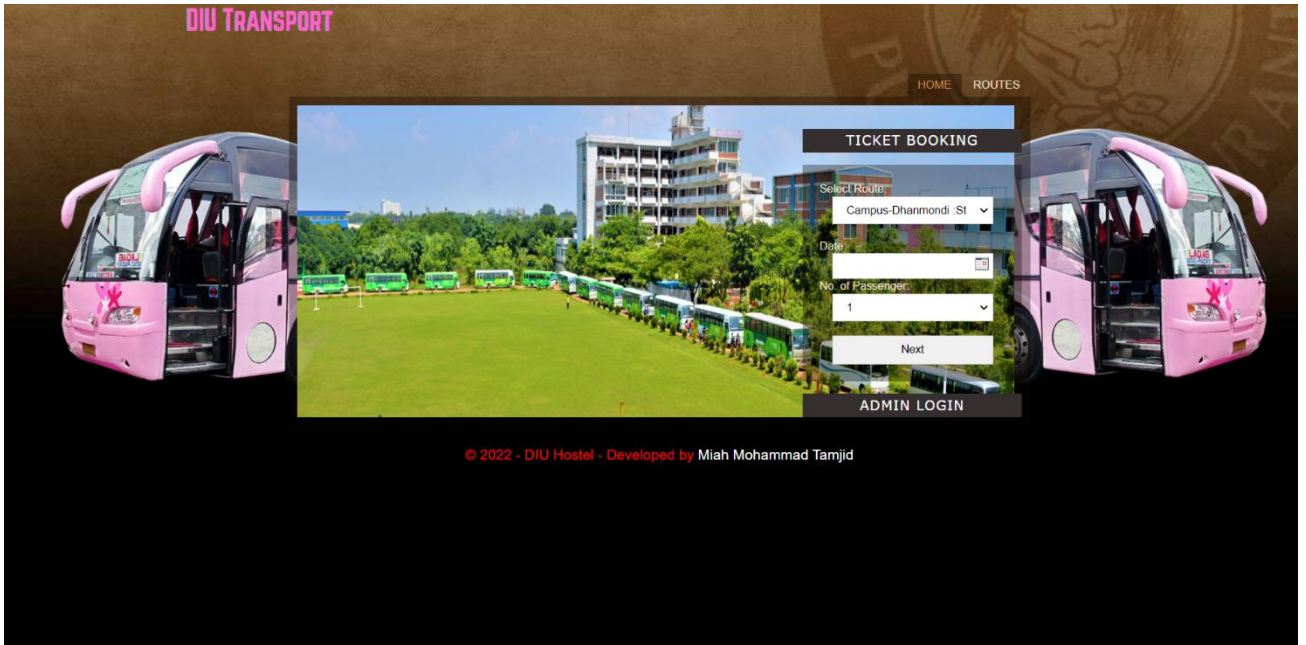


Figure 4.11: DIU Transport to buy ticket.

From here, a student can buy bus tickets.

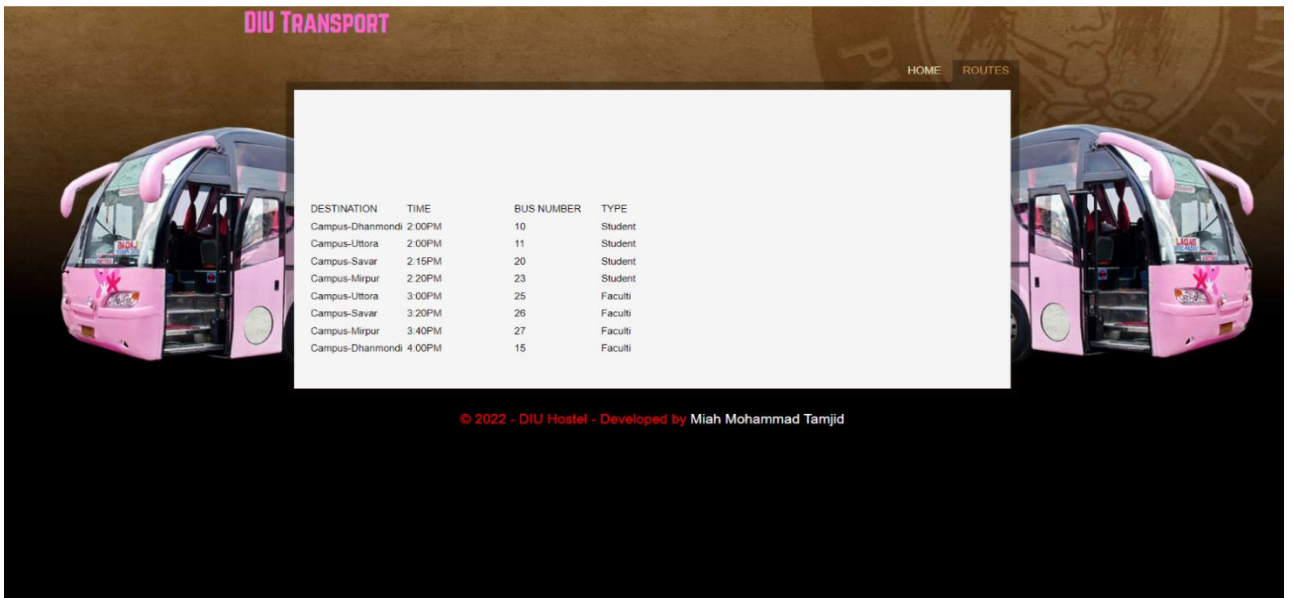


Figure 4.12: Transport bus schedule.

[Print](#)

Ticket Reservation Details

Transaction Number: pwkyvk06

Name: Miah Tamjid

Student ID: 183152235

Contact: 123432

Payable: 25

Route and Type of Bus: Campus-Dhanmondi :StudentTime of
Departure: 10:30:00

Seat Number: 1,

Date Of Travel: 15/08/2022

[Home](#)

Figure 4.13: Ticket Reservation.

From here, Student can print ticket.

The screenshot displays the 'My Profile' section of the DIU Hostel website. On the left, a sidebar lists navigation options: Dashboard, Book Hostel, My Room Details, Log Activities, Hall Canteen, DIU Transport, and DIU Medical Center. The main profile area includes the following fields:

- Last Updated On:** A greyed-out input field.
- Registration Number:** An input field containing the value '1'.
- First Name:** An input field containing 'Miah'.
- Middle Name:** An input field containing 'Mohammad'.
- Last Name:** An input field containing 'Tamjid'.
- Gender:** A dropdown menu with 'Male' selected.
- Email Address:** An input field containing 'miah@gmail.com'.
- Contact Number:** An input field containing '1623155710'.

A green 'Make Changes' button is positioned below the profile fields. At the bottom of the page, a copyright notice reads: '© 2022 - DIU Hostel - Developed by Miah Mohammad Tamjid'.

Figure 4.14: Student Profile.

From here, a student can see and update information.

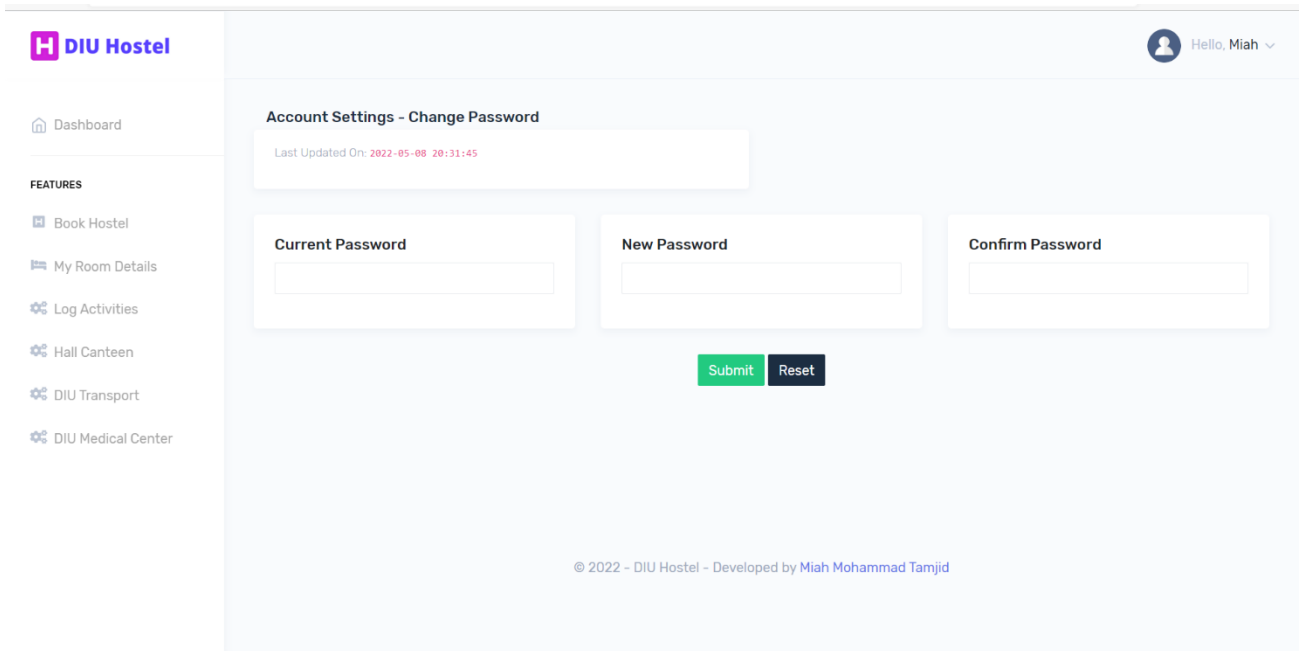


Figure 4.15: Student Change Password.

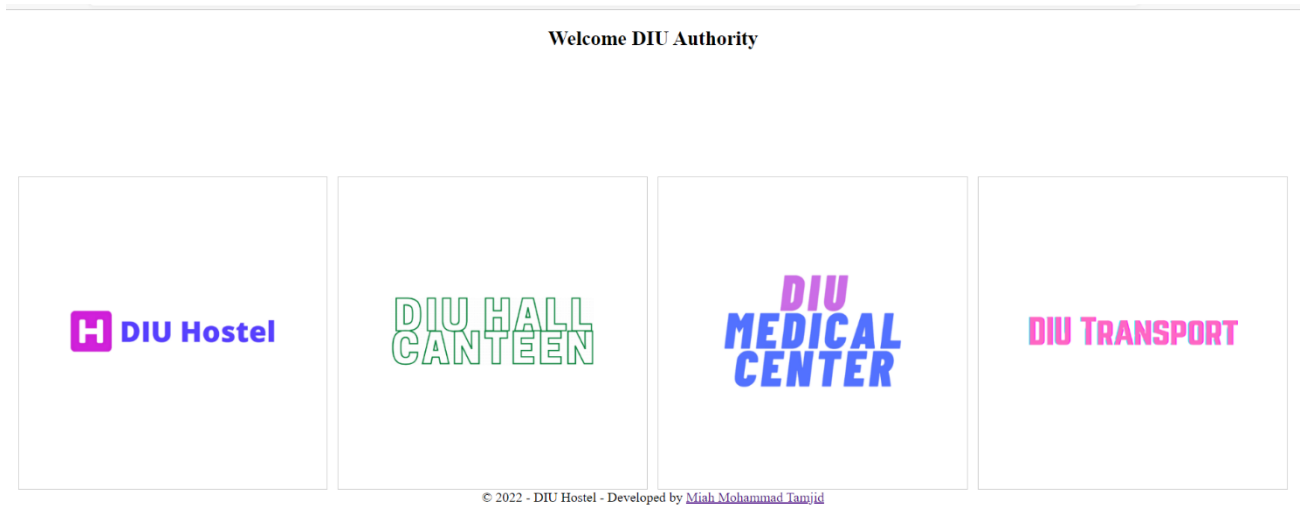


Figure 4.16: DIU Authority page.

From here, Admin's Login page.

The Admin Dashboard for DIU Hostel features a sidebar with navigation options: Dashboard, Register Student, View Student Acc., Book Hostel, Hostel Students, Manage Rooms, and Manage Courses. The main content area displays a greeting 'Good Afternoon, tamjid!' and four summary cards: 4 Registered Students, 9 Total Rooms, 2 Booked Rooms, and 7 Featured Courses. Below these is a table with 6 entries, each showing a student's email (miah@gmail.com) and their last activity timestamp.

#	Student's Email	Last Activity
1	miah@gmail.com	2022-08-14 23:39:03
2	miah@gmail.com	2022-08-13 14:22:32
3	miah@gmail.com	2022-08-13 01:00:58
4	miah@gmail.com	2022-08-13 00:55:08
5	miah@gmail.com	2022-08-13 00:19:45
6	miah@gmail.com	2022-08-11 17:35:34

Figure 4.17: Admin Dashboard.

The Student Registration Form includes fields for Registration Number, First Name, Middle Name, Last Name, Gender (a dropdown menu), Contact Number, Email ID (pre-filled with 'tamjid'), Password, and Confirm Password. At the bottom, there are 'Register' and 'Reset' buttons.

Figure 4.18: Student Register page.

From here, Admin can register a new student.

DIU Hostel Hello, tamjid

Dashboard

FEATURES

- Register Student
- View Student Acc.**
- Book Hostel
- Hostel Students
- Manage Rooms
- Manage Courses

Student's Account

Displaying all the registered student's account.

Show 10 entries Search:

#	Reg. No.	Student's Name	Gender	Contact	Email
1	1	Miah Mohammad Tamjid	Male	1623155710	miah@gmail.com
2	2	Miah MD. Anik	Male	1346565650	anik@gmail.com
3	3	MD Tamjid Miah	Male	1325658800	tamjid@gmail.com
4	04	Miah Mohammad Tamjid	Male	123432	mohammad@gmail.com

Showing 1 to 4 of 4 entries

Previous 1 Next

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Figure 4.19: Students accounts.

DIU Hostel Hello, tamjid

Dashboard

FEATURES

- Register Student
- View Student Acc.
- Book Hostel**
- Hostel Students
- Manage Rooms
- Manage Courses

Hostel Bookings

-->

Room Number
Select...

Start Date
mm/dd/yyyy

Seat
Enter Seater No.

Total Duration
Choose...

Food Status
 Required Extra **₹5000 Per Month**
 Not Required

Total Fees Per Semester
Your total fees

Total Amount
Total Amount here..

Figure 4.20: Book Hostel from admin.

DIU Hostel Hello, tamjid

Dashboard

FEATURES

- Register Student
- View Student Acc.
- Book Hostel
- Hostel Students**
- Manage Rooms
- Manage Courses

Hostel Student Management

Displaying all the registered students list.

Show 10 entries Search:

#	Reg. No.	Student's Name	Room No.	Seat	Staying From	Contact	Actions
1	CA003	Miah Mohammad Tamjid	112	3	2022-05-07	1325658800	Edit Delete
2	1	Miah Mohammad Tamjid	100	1	2022-08-14	1623155710	Edit Delete

Showing 1 to 2 of 2 entries Previous 1 Next

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Figure 4.21: Hostel Students list.

From here, Admin can see hostel student information.

DIU Hostel Hello, tamjid

Dashboard

FEATURES

- Register Student
- View Student Acc.
- Book Hostel
- Hostel Students
- Manage Rooms**
- Manage Courses

Rooms Management

Add New Room Details

Show 10 entries Search:

#	Room No.	Seat	Fees Per Semester	Published On	Actions
1	100	1	₹15000	2022-05-09 02:31:45	Edit Delete
2	201	1	₹15000	2022-05-09 02:31:45	Edit Delete
3	200	1	₹15000	2022-05-09 02:31:45	Edit Delete
4	112	1	₹15000	2022-05-09 02:31:45	Edit Delete
5	132	1	₹15000	2022-05-09 02:31:45	Edit Delete
6	11	1	₹15000	2022-05-09 02:31:45	Edit Delete
7	269	1	₹15000	2022-05-09 02:31:45	Edit Delete

Figure 4.22: Manage rooms.

From here, Admin can manage rooms.

DIU Hostel

Dashboard

FEATURES

- Register Student
- View Student Acc.
- Book Hostel
- Hostel Students
- Manage Rooms
- Manage Courses**

Course Management

Add New Course Details

Show 10 entries Search:

#	Course Full Name	Shortform	Course Code	Published On	Actions
1	Computer Science Engineering	CSE	CSE	2022-05-09 02:31:45	✎ ✖
2	Electrical and Electronics Engineering	EEE	EEE	2022-05-09 02:31:45	✎ ✖
3	Bachelor of Business Administration	BBA	BBA	2022-05-09 02:31:45	✎ ✖
4	Master of Business Administration	MBA	MBA	2022-05-09 02:31:45	✎ ✖
5	Management Information System	MIS	MIS	2022-05-09 02:31:45	✎ ✖
6	Architecture	ARCHITECTURE	ARCHITECTURE	2022-05-09 02:31:45	✎ ✖
7	Bachelor of Laws	LLB	LLB	2022-05-09 02:31:45	✎ ✖

Figure 4.23: Manage Courses.

From here, Admin can manage courses.

Dashboard Category Food Items Order Section Manage Admin Logout

Administrator Dashboard

Login Successful.

5 Food Categories	5 Foods	3 Total Orders	₹100.00 Revenue Generated
1 Pending Orders	1 On Delivery Orders	0 Cancelled Orders	2 System Administrator

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Figure 4.24: Canteen Admin's Dashboard.

From here, Canteen admin can control Hall Canteen.

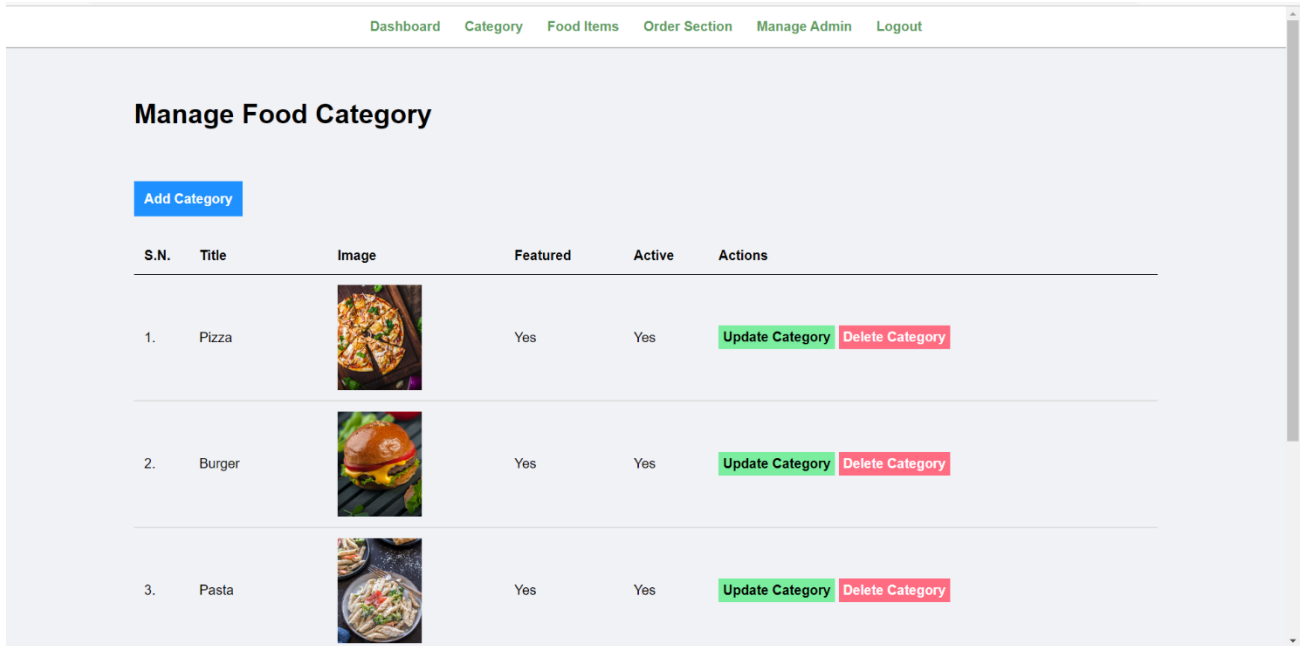


Figure 4.25: Manage Food category.

From here, Canteen Admin can add, update, delete food category.

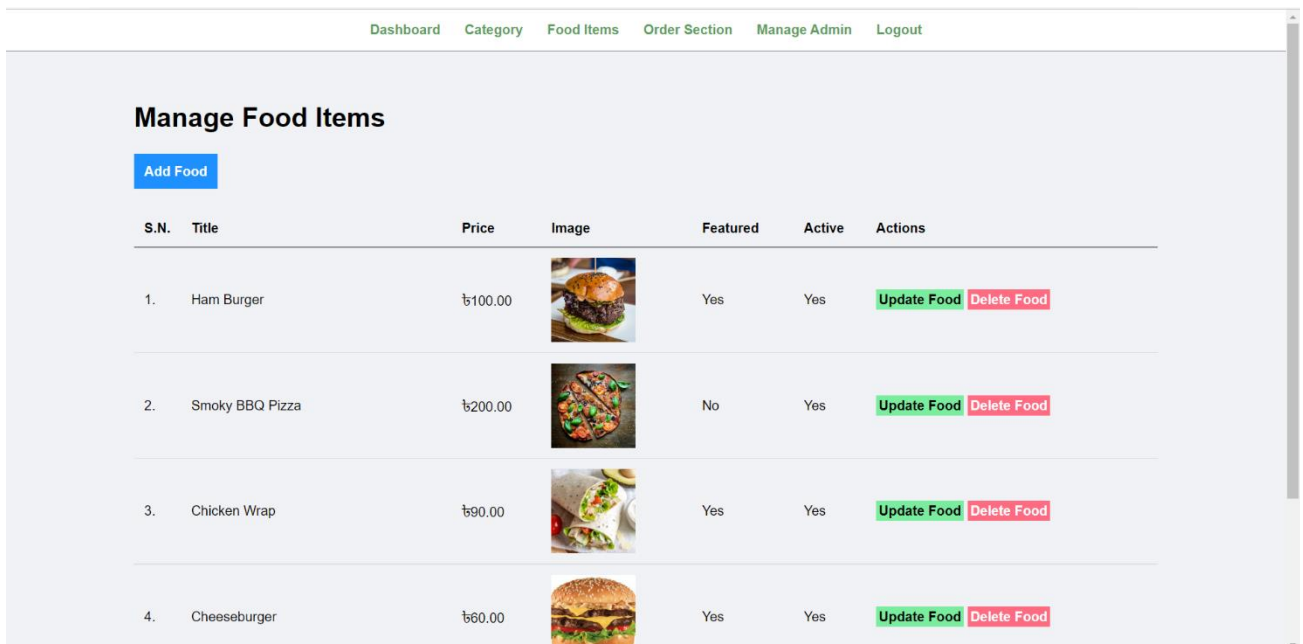


Figure 4.26: Manage Food Items.

From here, Canteen Admin can add, update, delete food items.

#	Order Date	Food	Price	Qty	Total	Status	Customer	Contact	Email	Address	Actions
1	2022-08-12 08:56:49	Cheeseburger	₹60.00	2	₹120.00	Ordered	MiahMohammadTamjid1623155710	miah@gmail.com	E-518	Update Order	
2	2022-08-12 08:56:24	Grilled Cheese Sandwich	₹50.00	1	₹50.00	On Delivery	MiahMohammadTamjid1623155710	miah@gmail.com	E-211	Update Order	
3	2022-08-12 08:55:49	Ham Burger	₹100.00	1	₹100.00	Delivered	MiahMohammadTamjid1623155710	miah@gmail.com	E-201	Update Order	

Figure 4.27: Manage Food Orders.

From here, Canteen Admin can update orders.

S.N.	Full Name	Username	Actions
1.	HallCanteen	hallcanteen	Change Password Update Admin Delete Admin
2.	GraphFood	graphfood	Change Password Update Admin Delete Admin

Figure 4.28: Manage Canteen Admins.

From here, Canteen Admin can manage new admins.

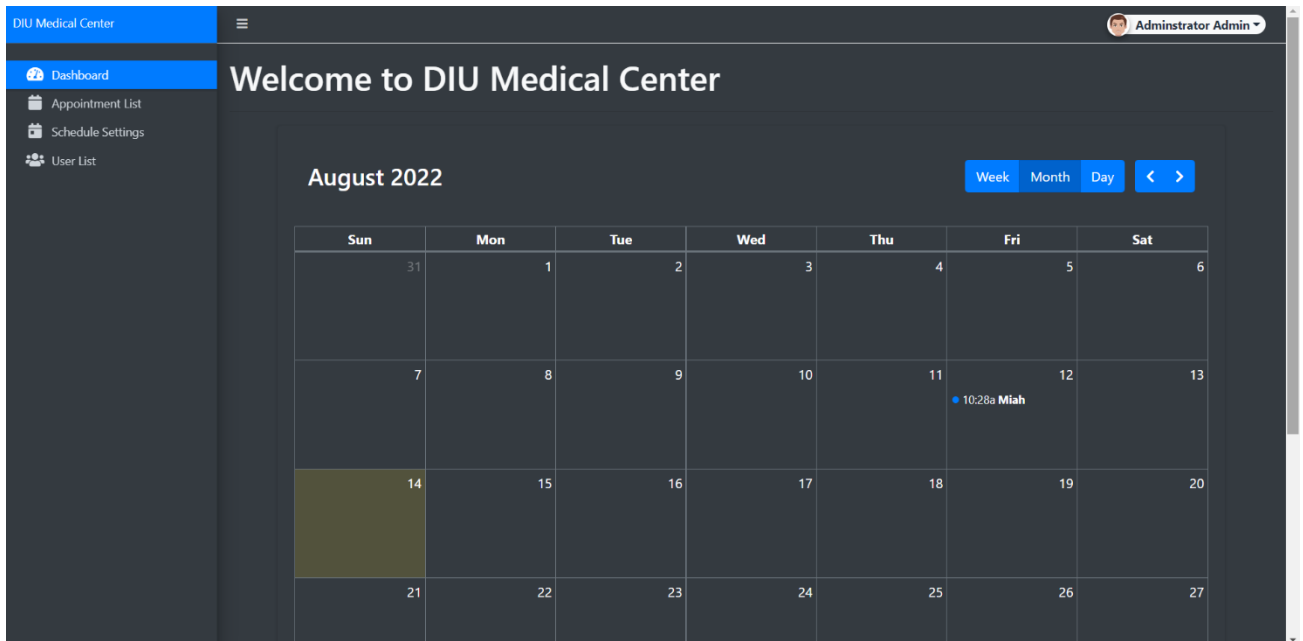


Figure 4.29: DIU Medical Center Admin Panel.

From here, Doctor can see patients.

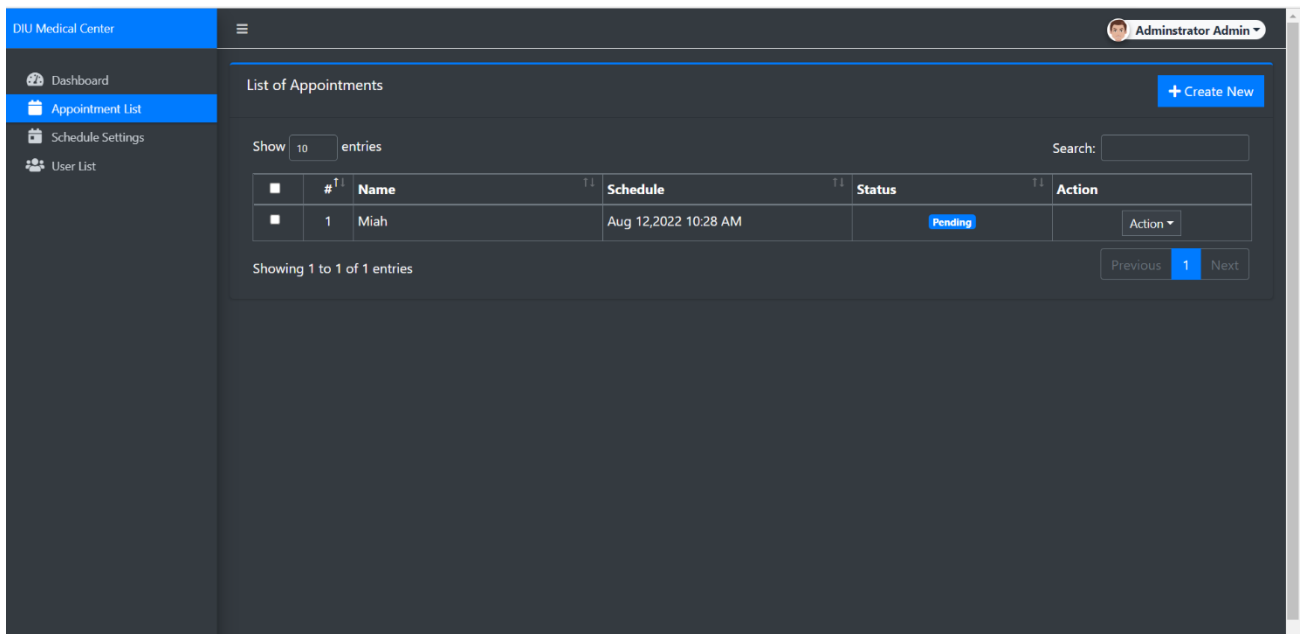


Figure 4.30: Appointment List.

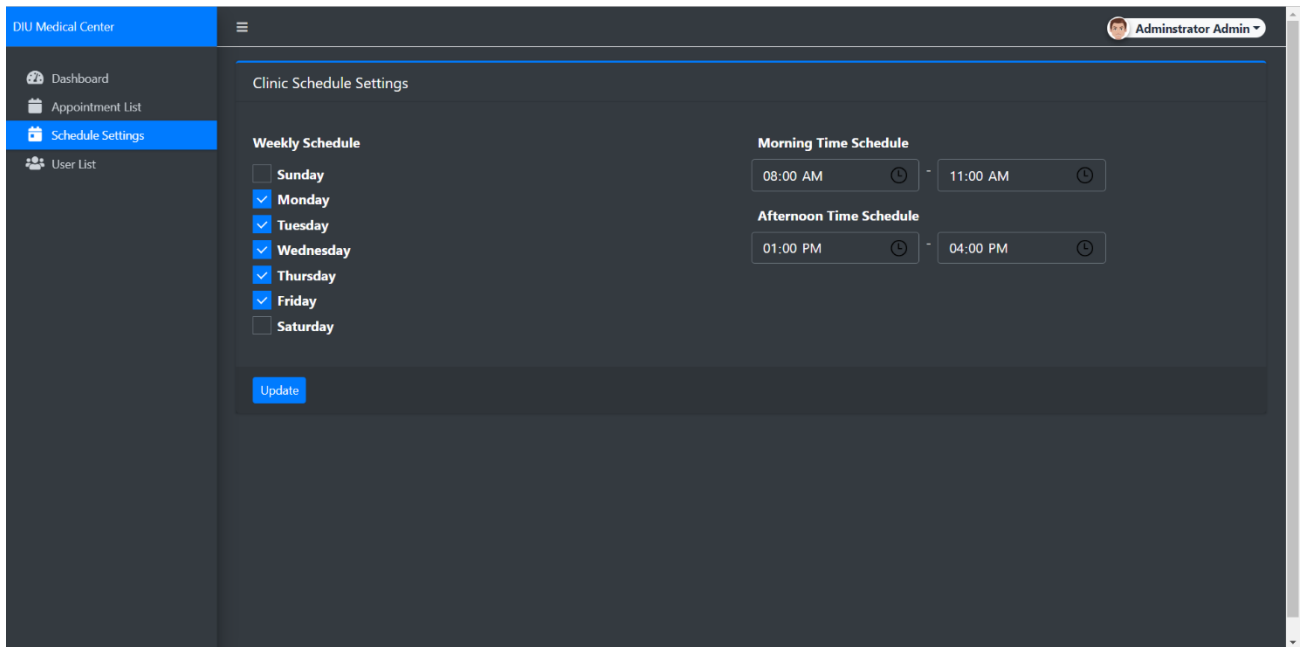


Figure 4.31: Doctor Schedule.

From here, Doctor can create schedules.

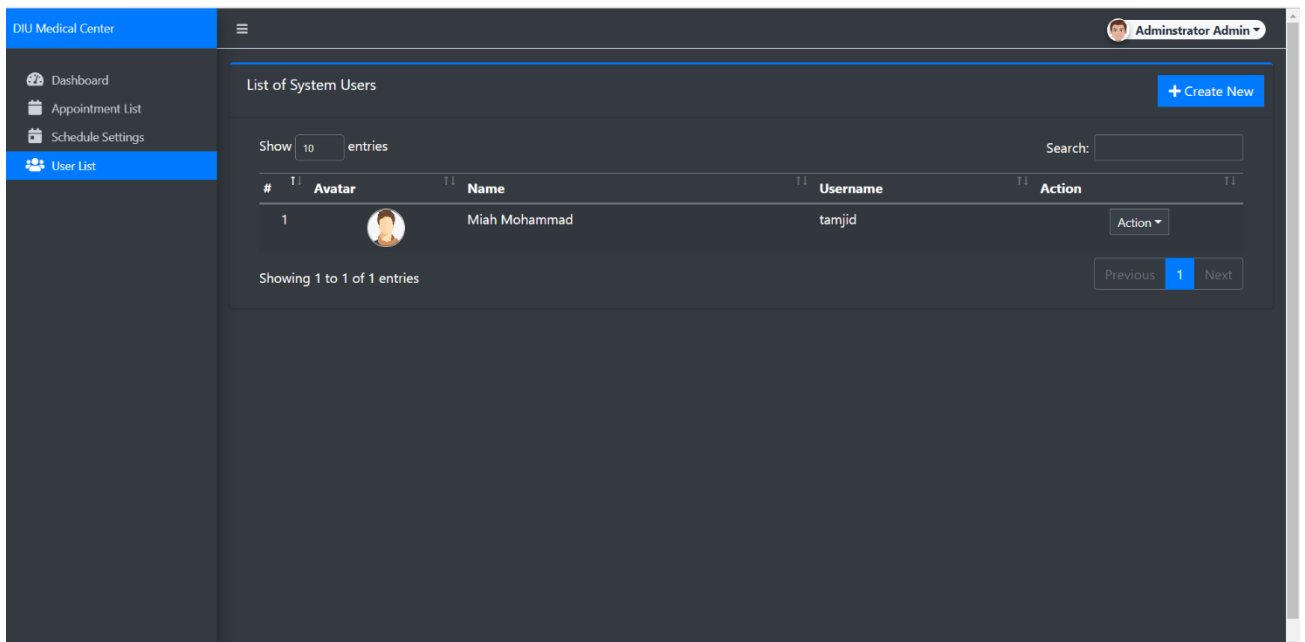


Figure 4.32: Add new doctors.

4.3 Back-end Design

Our project's back-end is divided between HTML and PHP [8] sections; PHP is a server-side scripting language designed primarily for web development but also utilized as a broadly beneficial programming language. An intuitive user interface is planned and created using HTML components. In order to create an interface among PHP and HTML components, we employed document expansion. The MySQL [9] data base was employed.

The following figure 4.33 shows the Source Code of our system.

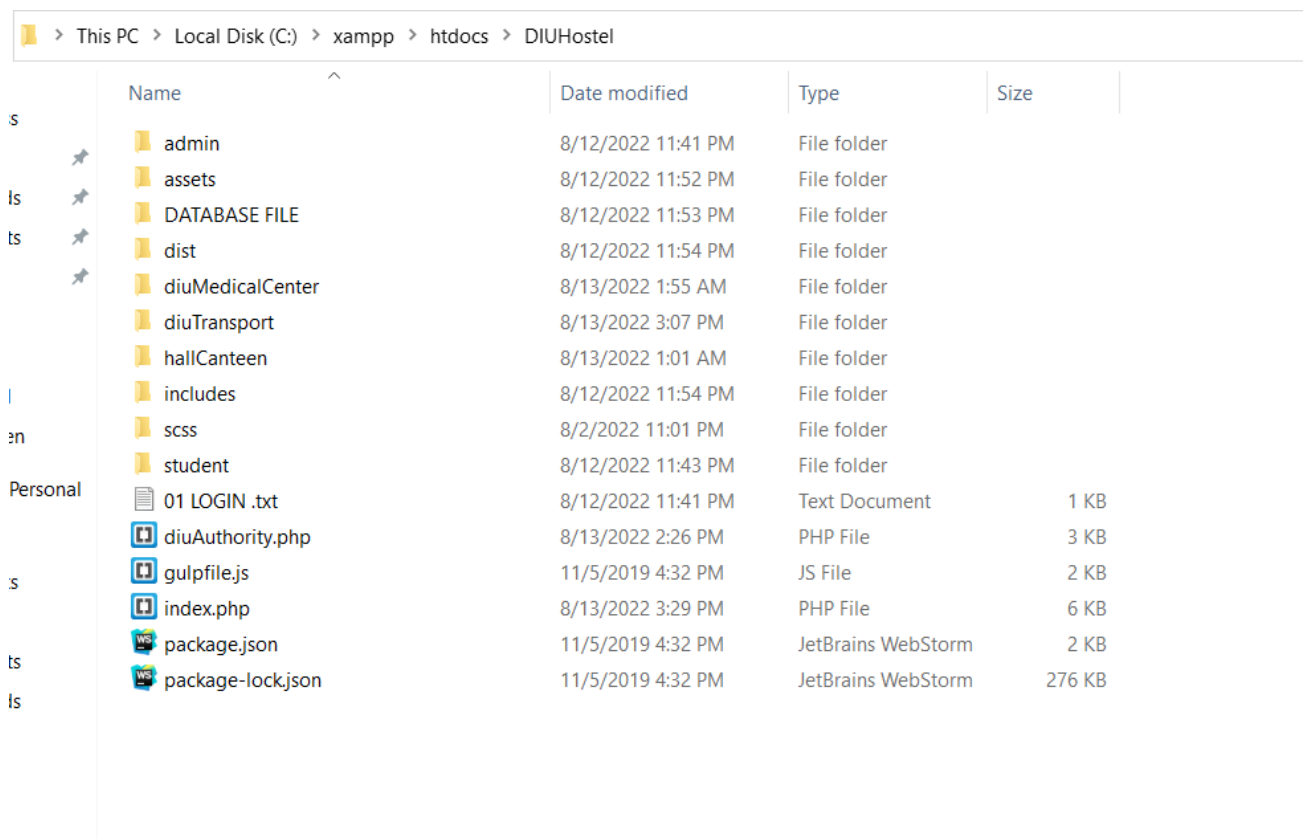


Figure 4.33: Source Code.

4.4 Interaction Design and UX

Help development key for any danger what is once in a while an ideal norm between a system and customer. This is an elicited structure that will help the customer with a recess with the system easily. It urges the customer to save their time. A few estimates exist on how a structure or program should be presented to clients in order to enhance their experience. For instance, iconography, typography, and button labels that influence consumer collaboration.

4.5 Implementation of Requirements

We need two different kinds of requirements. The requirements are:

Hardware necessity.

Software necessity.

Software is required:

Hardware Requirement: For the framework with the following setup to be operational, one database server must be available.

PC

a single server-class grade PC that supports MySQL

Database Server Software Requirement:

4.5.1 System Requirements

PHP 5.2.4 and above (6.0 and up preferred);

MySQL 5.0.4 and up

Brackets

Web Sever

Apache 2.x+ Web Server

4.5.2 Browser Conditions

Use Firefox 5+

Internet Explorer 9 and above

10+ Google Chrome

Opera 10+

Safari 5+

4.5.3 Development Environment

It is advised to use Localhost when developing. following servers are available for usage on us

PC development

WAMPSEVER Windows

Microsoft Windows XAMPP [10]

4.6 Server

The worker is responsible for all work. The communication with the system will be controlled by a particular application, referred to as a web worker. Whatever data the program needs is stored by a communal knowledge base worker. In addition, it will be utilized to execute programmed actions on the data that additionally arrives through the web worker. Lastly, I need a language to facilitate connections among the data base workers and web worker. All of this is obviously impossible without a functional framework. The web worker, programming language, and knowledge base worker we use ought to cooperate honestly with the functioning structure. There are a lot of web workers searching the world wide web. It is economically wise to implement the test automated framework. It is important and timely. For a social knowledge base, it definitely won't keep every ring and shout open, but for the vast majority of clients, there is plenty. PHP, APACHE, and MYSQL are all used by the WAMP or XAMPP worker. I utilize XAMPP [10] for progress. Additionally, we continue to live it on a cloud SERVER following that.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

An important component of our knowledge base is our errands. We are aware that several knowledge bases organizational methods are in use around the world. We settle on MySQL for the job. The largest popular opensource database in the globe is MySQL. With its demonstrated performance, unwavering quality, and simplicity of use, MySQL has grown to become the go-to information foundation for digital applications. A social knowledge base with an open access organizational framework is MySQL.

The following information relates to databases:

‡ Database name: diuhotel.

‡ 23 tables and each table have various areas.

There are 23 tables in our database, each with a separate share and clear credit that is contributing to the execution of our system.

5.2 Database of diuhostel

The following figure 5.1 shows the Database of DIU Hostel of our system.

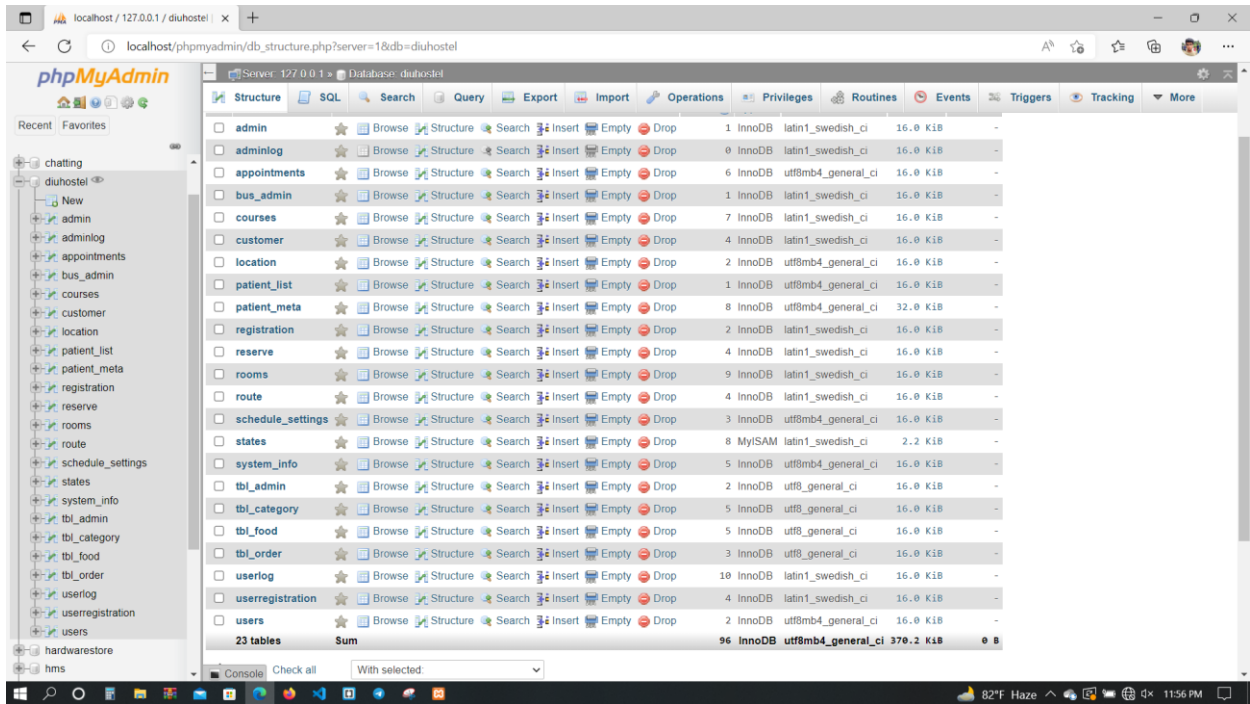


Figure 5.1: Database of DIU Hostel.

5.3 Testing Implementation

Testing is a subset of motions that may be planned for development and carried out in a systematic way. Testing is carried out by the software's creator in collaboration with an experienced test team. After the method is implemented, the program has to be verified for precise outcomes and responses. because nothing may be carried out exactly as planned during implementation. Therefore, the flaws cannot be found and subsequently addressed without testing. System monitoring is thus a crucial phase of systems improvement.

5.4 Test plan

A test plan is conducted prior to testing. A sound test plan documents inputs related to the test, the procedures utilized to conduct off the testing, and the standard views or outcomes. In general, compared to the intricacy of the upcoming programmed forms, test methods range from extremely basic to astounding.

5.5 Unit Testing

Unit testing axes check attempt around the littlest unit of the structure plan the produce part or module. All the sources of info taken every module will be tried by testing erudition and notable outcomes when adding consent will issue. For a successful login, a user must need a DIU email. Diu offers a particular email address. No one may use these services if the email is not in the diu format. I will use diu email format so that I can easily identify our student for a password a user needs to provide at least 6 digits.

Student name and guardian name must be a string value. The number and special characters are not allowed.

5.6 Test Result and Report

Results are the rule import of my task. As an issue of the first consequence, my attempt is result organized. Each attempt needs a yield, therefore. As symbolized by our testing foundation I have discovered each mediocre result. I produced the essential tests according to sequence rules. Conspicuous investigations have been made for a particular method and taken care of all examination results fittingly to reveal all results. This will make a decision with a better quality of correctness.

CHAPTER 6

IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY

6.1 Impact of Society

Students will benefit the most from using my website. This site will make the regular tasks of students much easier. Besides, many tasks of the university authorities will be simplified, saving a lot of time.

6.2 Impact on Environment

You will not only have a competitive advantage by having a management system that is in place and has been accredited, especially in environmental problems, but you will also be able to show to other firms how to be ethical and conscientious, which will help you build your reputation. The growth in your sales and income is another advantage of adhering to this guideline. Using recyclable materials is one of the simplest ways to get started; one action can help your company considerably minimize its environmental impact while also generating a sizable replacement cost. Water usage is decreased when eco-friendly or reusable materials are used, thus I advise you to swap out paper or napkins with goods that are especially recyclable or simple to break down in any presentation. Make an effort to distribute the resources needed to satisfy the requirements of your visitors, eliminate and manage any waste, and optimize the use of natural resources like water and energy.

6.3 Ethical Aspects

Managers who act ethically promote collaboration and coordination at work. Additionally, it enables the formation of strong bonds with major stakeholders including employees, government officials, and shareholders. Management ethics places an emphasis on fair pay, pleasant working conditions, and enticing reward structures.

6.4 Sustainability Plan

By using this website, students will learn more about the era, while also freeing up their time to focus on other activities. You can spend more time for yourself without spending too much time on unnecessary work. Similarly, authorities can take their plans to a higher level.

CHAPTER 7

CONCLUSION & FUTURE SCOPE

7.1 Discussion

The DIU Hostel is made for DIU students who wish to oversee different hostel operations and is highly helpful for managing DIU hostel allocation and bulk fee calculations. This bundle will prove to be effective in meeting all of Diu's criteria. The specific project addresses hostel management issues while minimizing issues that arise if tasks are conducted out manually. After the shortcomings of the current system are identified, an automated solution that is better user-friendly and GUI-focused and will operate within the present systems is designed.

7.2 Conclusion and Future Scope

DIU Hostel is an adaptable and user-friendly program for the dorms at the university. The DIU Hostel Project may handle dorm rooms, students' data, the procedure for assigning rooms to students, the hall canteen, the DIU Medical Center, DIU Transportation, etc. DIU Hostel is an adaptable, user-friendly piece of technology that supports hostel managers. In future some more things could be updated like chatbot system, live chat conversation with hall authority, DIU Transport admin panel etc. This project's technology is extremely adaptable and may be updated to meet the demands of the DIU Authority.

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