

WEB BASED APPLICATION COUNSELING HOUR MANAGEMENT

BY

TAPAS KUMAR MANDAL

ID: 162-15-7800

MD SAIFUL ISLAM

ID: 162-15-7777

AND

MEHEDI HASAN

ID: 162-15-7694

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

Supervised By

Md. Sadekur Rahman

Assistant Professor

Department of CSE

Daffodil International University

Co-Supervised By

Ms. Nazmun Nessa Moon

Assistant Professor

Department of CSE

Daffodil International University



**DAFFODIL INTERNATIONAL UNIVERSITY DHAKA,
BANGLADESH SEPTEMBER 2020**

APPROVAL

This Project titled ‘**Web Based Application Counseling Hour Management**’ submitted by **Tapas Mandal Dipto, Md. Saiful Islam** and **Mehedi Hasan** 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 Bachelor of Science in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 07-10-20

BOARD OF EXAMINERS

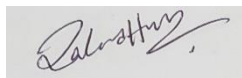


Dr. Syed Akhter Hossain

Professor and Head

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Chairman

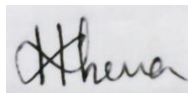


Md. Zahid Hasan

Assistant Professor

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Most. Hasna Hena

Assistant Professor

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Dr. Mohammad Shorif Uddin

Professor

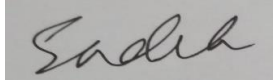
Department of Computer Science and Engineering
Jahangirnagar University

External Examiner

DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Md. Sadekur Rahman, Assistant Professor, Department of CSE**, Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree.

Supervised by:



Md. Sadekur Rahman

Assistant Professor
Department of CSE
Daffodil International University

Co-Supervised by:

Ms. Nazmun Nessa Moon

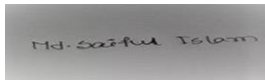
Assistant Professor
Department of CSE
Daffodil International University

Submitted by:



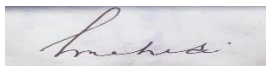
Tapas Kumar Mandal

ID: -162-15-7800
Department of CSE
Daffodil International University



MD Saiful Islam

ID: -162-15-7777
Department of CSE
Daffodil International University



Mehedi Hasan

ID: -162-15-7694
Department of CSE
Daffodil International University

ACKNOWLEDGEMENT

First we express our heartiest thanks and gratefulness to almighty God for His divine blessing makes me possible to complete the final year project successfully.

We really grateful and wish our profound our indebtedness to **Md. Sadekur Rahman, Assistant Professor, Department of CSE** Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of web development influenced us to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior draft and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to **Dr. Syed Akhter Hossain, Head, Department of CSE**, Daffodil International University, Dhaka, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University.

We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

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

ABSTRACT

Finding the information of teacher and Counseling hour sometime becomes a headache for the students. Sometimes student face many difficulties to find a proper information of teachers as their requirements, because of the information gap. In addition, it is also difficult to find Counseling hours of the teacher. Usually, for Counseling hour student need to meet with teacher physically which is time-consuming and difficult. Suppose, if any student want to meets with a teacher then he must come to his teacher desk in physically, but in this situation many time teachers are not available and not free. As well as most of the time students don't know about the teacher information area. To solve this problem we developed a project which name is **Faculty Information and Counseling Hour Management** provides a platform which enables the students finding their proper required teacher. The student can find a teacher based on their experience, qualification, region and can contact remotely.

Our project is an online platform for Teachers and Student from where a teacher can post and notify their free time and students can submit the post and discuss with their teacher. This system can store all information of teacher that is helpful for the student to find out an experienced teacher.

TABLE OF CONTENTS

CONTENT	PAGE NO
Board of examiners	i
Declaration	ii
Acknowledgements	iii
Abstract	iv

CHAPTER	PAGE NO
CHAPTER 01: INTRODUCTION	1-3
1.1 Introduction	01
1.2 Motivation	01
1.3 Objectives	02
1.4 Expected Outcome	02
1.5 Report Layout	03
CHAPTER 02: BACKGROUND	3-5
2.1 Introduction	03
2.2 Related Works	04
2.3 Comparative Studies	04
2.4 Scope of the Problem	04
2.5 Challenges	05
CHAPTER 03: REQUIREMENT SPECIFICATION	5-11
3.1 Entity Relationship Diagram	05
3.2 Requirement Collection and Analysis	06
3.3 Use Case Modeling and Description	07
3.4 Design Requirements	10

CHAPTER 04: DESIGN SPECIFICATION	12-15
4.1 Front-end Design	12
4.2 Back-end Design	12
4.3 Interaction Design and UX	13
4.4 Implementation Requirements	15
CHAPTER 05: IMPLEMENTATION AND TESTING	15-35
5.1 Implementation of Database	15
5.2 Implementation of Front-end Design	18
5.3 Implementation of Interactions	34
5.4 Testing Implementation	34
5.5 Test Results and Reports	35
CHAPTER 6: CONCLUSION AND FUTURE SCOPE	36-36
6.1 Discussion and Conclusion	36
6.2 Limitation	36
6.3 Scope for Further Developments	36
REFERENCES	37
APPENDIX	38

LIST OF FIGURES

FIGURES	PAGE NO
Figure 3.1: Entity relationship diagram of this System.	06
Figure 3.2 shown use case diagram of this system.	10
Figure 3.4: This is the flow chart of student successfully booking a teacher.	11

Figure 4.1: Request lifecycle.	13
Figure 4.2: System DBMS tables	13
Figure 4.3: The 7 Factors that Influence User Experience	14
Figure 5.1: Implementation of users table	15
Figure 5.2: Implementation of teacher table	16
Figure 5.3: Implementation of student table	16
Figure 5.4: Implementation of status table	16
Figure 5.5: Implementation of schedules table	17
Figure 5.6: Implementation of role table	17
Figure 5.7: Implementation of categories table	17
Figure 5.8: Home Page	18
Figure 5.9: Teacher Registration Page	19
Figure 5.10: Student Registration Page	20
Figure 5.11: User Login Page	21
Figure 5.12: Teacher Dashboard	22

Figure 5.13: Teacher update profile	23
Figure 5.14: Teacher add for counselling hour	24
Figure 5.15: Teacher approve or rejected for booking	25
Figure 5.16: Student Dashboard	26
Figure 5.17: Student Profile Update	27
Figure 5.18: Student Booking for counseling hour	28
Figure 5.19: Admin Dashboard	28
Figure 5.20: Show All Teachers	29
Figure 5.21: Show All Student	30
Figure 5.22: Add Department	30
Figure 5.23: Add Campus	31

CHAPTER 01

Introduction

1.1 Introduction

In Our country, there are many communication gap between teacher and student in some field. For that reason, it is so difficult to find teachers information and their Counseling hours for a student. To reduce this suffering, we developed a web based application system, “**Faculty Information and Counseling Hour Management**”. In this system, the profiles of all teacher will available. By using this system, student can easily submit their classes and the teachers approve the request. Among the required teacher, student can easily find their desired teacher. This document presents a details story behind the planning “**Counseling Hour**” web application. Alongside, it will reveal the requirements, feasibility study, design, and development process of this application. Additionally, the motivation of this app and how it would facilitate users will be illustrated.

1.2 Motivation

Behind building this system many things motivated us. There were several reasons we stepped forward and thought to go ahead solve this problem. Firstly, we thought that in our University, specially the fresher student don't know about full information about the teacher and which teachers are working on which field. Then, we planned together and got interested to look into the problem and if we could make a platform to make the process easier form where student easily can gather information about their expected skilled teacher.

Secondly, Student need to meet with their teacher for study projects. Research papers and many purposes, but many of time teacher may not available and may busy. Foe solving this problem we make a platform that is “**Counseling Hour**” it will fill the gap between teacher and student.

1.3 Objectives

The objectives of our project are point out below.

- To provide proper services timely.
- To provide schedule time.

- To reduce communications gap between teachers and students.
- Recognize experience and skilled teachers.
- To get proper information.
- To reduce gathering.
- To get rid of noise.
- To save time.

1.4 Expected Outcome

“Faculty Information and Counseling Hour Management” is an online platform that not only saves time but also gives fast outcomes. There are many website for the faculty information system. But until now, there are no web base application for get riding and solve the problem. By our application student and teacher easily can communicate because this is very user friendly. What normally happened next? The potential student would post for consult with teacher and teacher can easily see student post .In this situation teachers can inform their schedule time. If they free they can notify by post as yes I am free join with me or if they are busy they can also inform by post.

Teachers can put their profile and information which students can see very easily. This process saves students and teachers time. This system can store all information that is helpful for the student to find out an experienced teacher.

This system has following features:

- Student can easily post.
- Student can get desired teacher within a short time.
- Student can communicate with teacher through online.
- At first no need to communicate physically.
- Teacher and student can communicated 24 hours a day and 7 days in a week via real-time chat and messaging.
- They can give feedback each other.
- It reduces both student and teacher time.

1.5 Report Layout

The report is divided into five chapters. Each chapter discuss with the different aspects of "**Faculty Information and Counseling Hour Management**". Each chapter has various parts explaining in detail.

- **Chapter 1: Introduction**

This chapter discusses the important theoretical concepts behind our project.

Here also discusses our project motivation, objectives and expected outcomes.

- **Chapter 2: Background**

This chapter discusses our project related works, comparative studies and scope of the problem.

- **Chapter 3: Requirement Specification**

This chapter discusses our project Business Process Modeling, requirement collection and analysis, use case modeling and description, logical data model and design requirements.

- **Chapter 4: Design Specification**

This chapter discusses our project front-end design, back-end design, interaction design and UX and implementation requirements.

- **Chapter 5: Implementation and Testing**

This chapter discusses about the Implementation of database, front-end design, interactions, testing. Also discuss about test results and reports.

- **Chapter 6: Conclusion and Future Scope**

This chapter discusses about the conclusion and future scope of our project.

CHAPTER 02

Background

2.1 Introduction

Faculty Information and Counseling Hour Management is an online-based web Application. This chapter is having details work present, comparative analysis with our web application. Details about Scope of the application is explained. Our target and challenges that we faced are described here.

2.2 Related Works

There are many website for teacher information system, but there are no web base applications for this and we add extra important feature that is Counseling Hour Management. Our web application fully focuses on student problem to communicated with their desired teachers and teacher's Counseling Hour.

2.3 Comparative Studies

Faculty Information and Counseling Hour Management is a web application based on teachers and student management. There are several website on this type of management. Using those website anyone can get information about teachers. Faculty Information and Counseling Hour Management particularly shaped to make Teacher and Student time hassle free. The available websites are not so effective and not work for very well as our project is web base application so student and teacher can use it very easily.

2.4 Scope of the Problem

We worked on the web application following the software development process. We went through each part completion the previous one. The web application was planned for a month long to collect requirements and gathered information extensively.

Faculty Information and Counseling Hour Management Planning and time management schedule is given below.

2.4.1 Time Scheduling

The time scheduling of our project is shown in table 2.1.

Table 2.1: Time Scheduling

Planning	1 year
Design and Analysis	2 Month
Coding	6 Month and 2 Weeks
Testing and Implementation	1 Month

The Scope is Application Module. Faculty Information and Counseling Hour Management has 3 Modules. One of the admin. The second one is Student. The last one is a Teacher.

2.4.2 Target of our Project

The target of our project is to solve such problems to make smoother scheme for all both teacher and student so that student can easily get information and contact with their desire teacher and teacher can get easily contact with student from here.

2.5 Challenges

The most challenging part was building order system in both Teacher and Student parts. Data synchronization was also taking time to plan. Additionally, a designing database for the whole system was challenging. Working with real time chat was also challenging.

CHAPTER 03

Requirement Specification

3.1 Use Case Modeling and Description

3.1.1 System Module

- Student module
- Teacher module
- Admin module

Student Module

Student can perform the below operation in this web application.

i. Registration

Registers them in the system by email verification.

ii. Login

After registration Student can login into the system.

iii. Mobile Number Verification

After login to the system Student need to verify his/her mobile number.

iv. Edit Profile

Student can edit his/her profile.

v. Booking

Student can send booking request into the system.

vi. System Statistics

Student see the system the information, see counseling time, request for booking.

vii. Get Notification

When teaches approve on their profile Student get notification.

viii. Request

Student can send request to teacher.

ix. Assign

Student can assign post to a teacher after successful discussion.

x. Feedback

After complete work student can give feedback to teacher.

Teacher Module

Teachers can perform the below operation in this web application.

i. Registration

Teachers registers them in the system by email verification.

ii. Login

After registration lawyers can login into the system.

iii. Mobile Number Verification

After login to the system Teachers need to verify his/her mobile number.

iv. Add Certificates

Teachers must need to add qualification before applying on the system.

v. Add Skills

Teachers need to add his skills area.

vi. Edit Profile

Teachers can edit his/her profile.

vii. Status

Teachers can give post on his/her profile.

viii. Post Request

If student send any request then Teachers can see the messages.

ix. Get Notification

When a student booked a teacher then teacher will get notification.

x. Feedback

After complete work Teachers can give feedback student also.

Admin Module

Admin can perform the below operation in this web application.

I. Login

Admin can login into the system.

II. System Statistics

Admin sees the system statics. Admin can see teachers and students post profile and information.

III. Add Announcements

Admin can add announcements separately for student and Teachers.

IV. Manage Users

Admin can see all users of this system also can approve, reject users.

V. Add User

Admin can add any types of user.

VI. Get Notification

When a student post status Admin get notification for approval.

Overall use case diagram is shown in figure 3.2.

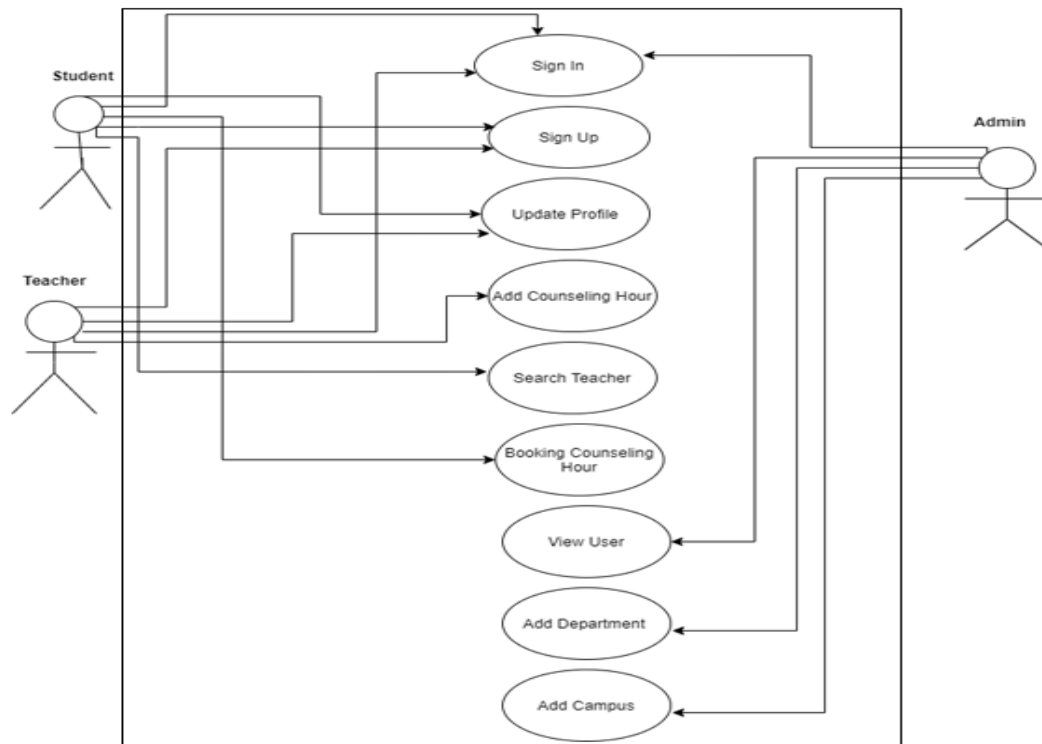


Figure 3.2: Use Case diagram of the system

3.1.2 Class Diagram and Description

A er diagram is a graphic depiction of our project of this system.

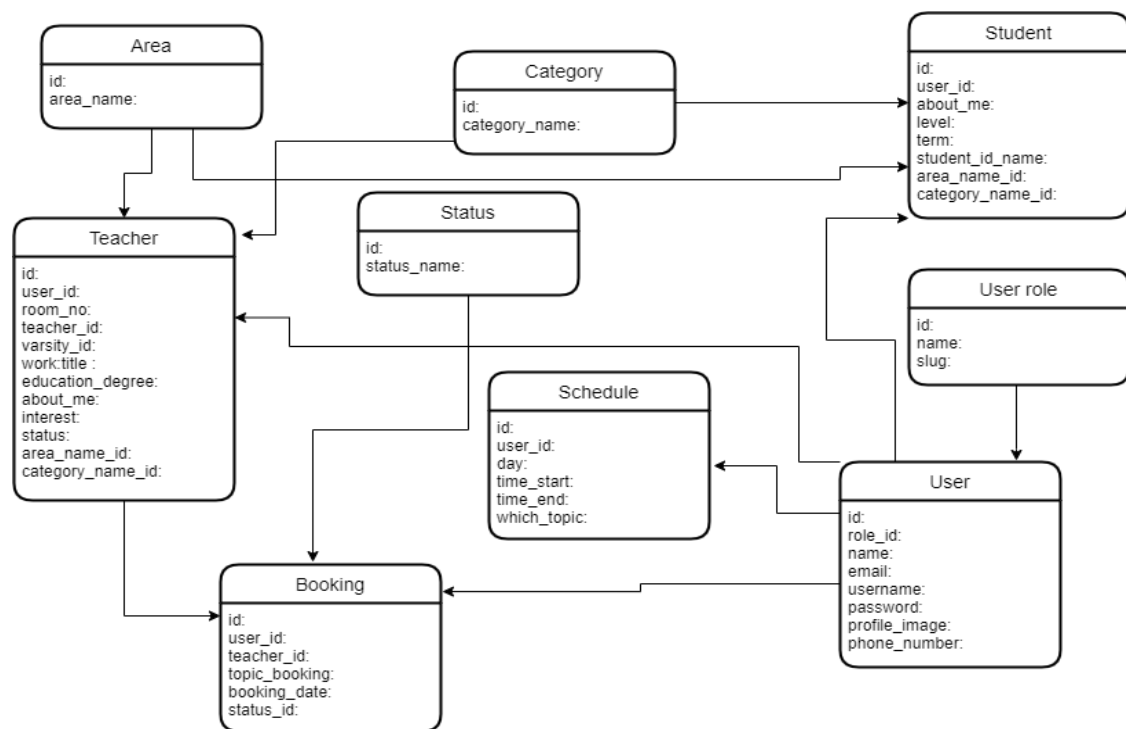


Figure 3.3: Class diagram of this system.

3.3 Entity Relationship Diagram

Entity relationship diagram also known as ERD is type of structural diagram for design. This ERD contain different symbols and connectors that visualize two important information.

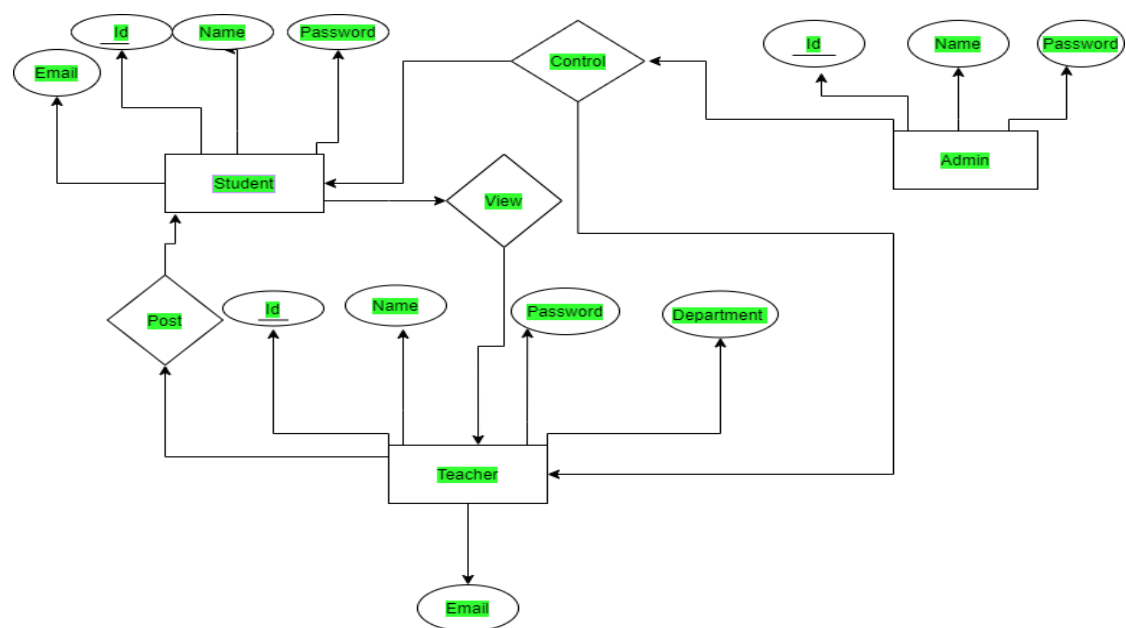


Figure 3.1: Entity relationship diagram of this System.

3.2 Requirement Collection and Analysis

3.2.1 Software Requirements

To develop this application we used following Software Requirements:

- Operating System: Windows 8.1, Windows 10, al linux distro.
- Language: HTML5, CSS3, JavaScript, JQuery, Ajax, PHP, Laravel.
- Database: Mysql.
- Tools: PhpStorm, Sublime Text 3.
- Debugger: The Laravel Debugger by Barry vd Heuvel.
- Internet Browsers: Microsoft Edge, Firefox, Chrome.

Software Requirements, for running the application:

- Operating System: Any Operating System because it is a Web Application.
- Network: Wi-Fi or Cellular Network
- Compatible Browsers: Microsoft Edge, IE10, IE11, Firefox, Safari, Opera, Chrome.

3.2.2 Hardware Requirements

To develop this application we need the following Hardware Requirements:

- Processor: Intel Core I3
- RAM: 4GB
- Space on disk: minimum 10GB

3.4 Design Requirements

When designed a systems or software, following issues must be considered that reproduce the overall design for the goals that the system expected to reach. The following goals were kept in mind while designing the system.

- a. Make system simple and flexible for users: The system users are able to have a great experience by using this web based apps.
- b. Make the system compatible: It should be easy and fast in the total system, future maintenance and enhancement must be less.

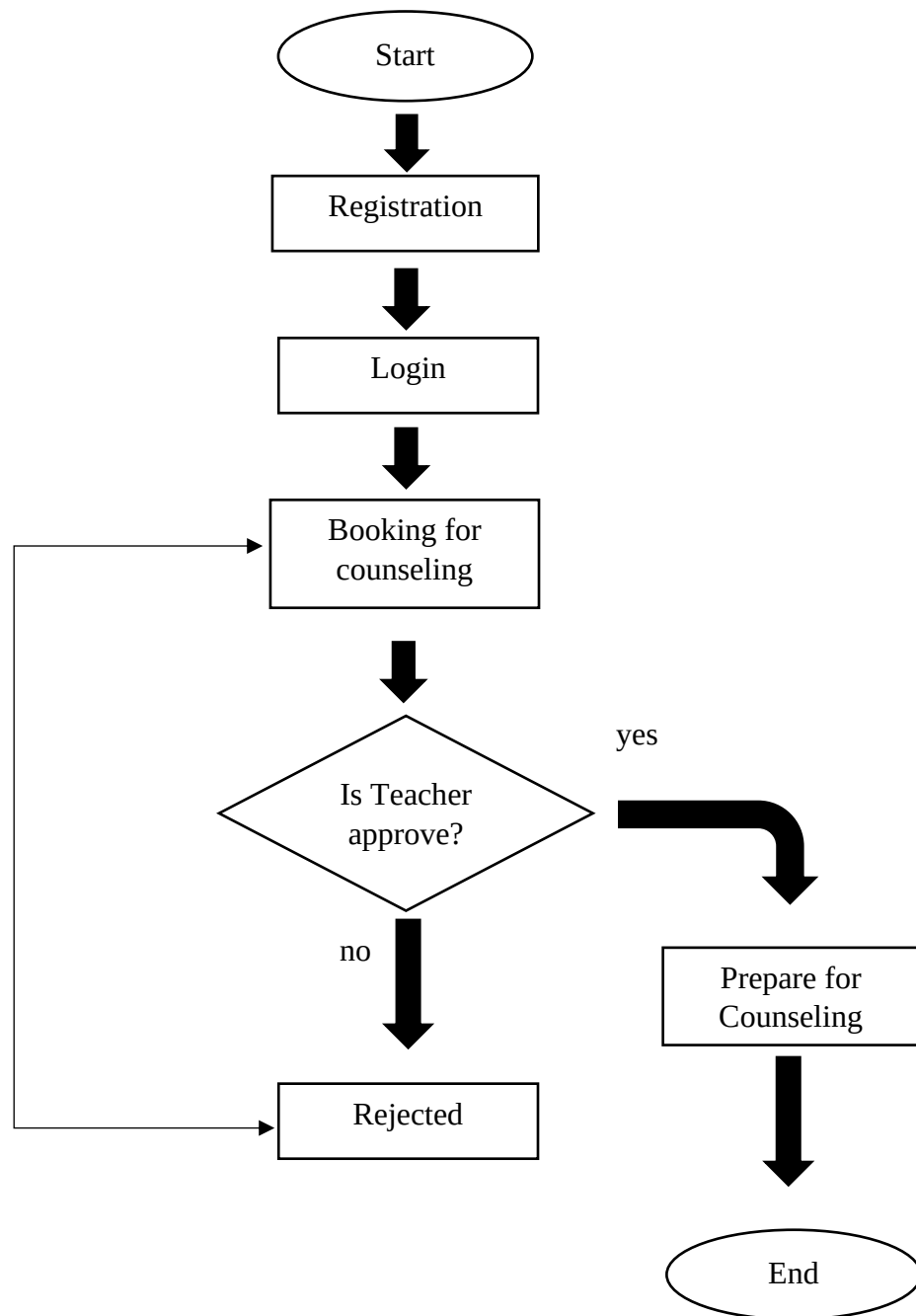


Figure 3.4: This is the flow chart of student successfully booking a teacher.

CHAPTER 04

Design Specification

4.1 Front-end Design

Front-end Design is the main attraction of an application. It also should be user-friendly. Our application we designed a beautiful front-end Design. We also try to design user friendly. In front-end design, our Application has following screen shown in Table 4.1.

Table 4.1: Activity list of the system

1.Student Registration Screen
2. Student Login Screen
3. Student Dashboard Screen
4. Student Booking Screen
5. Student Update Profile Screen
6. Student Search for Teacher Screen
7. Teacher Registration Screen
8. Teacher Login Screen
9. Teacher Dashboard Screen
10. Teacher Add Counseling Hour Screen
11.Teacher Approve or Rejected Screen
12. Teacher Profile Screen
13. Admin Login Screen
14. Admin Dashboard Screen
15. Admin Add Department Screen
16. Admin Add Campus Screen
17. Admin All User List Screen

4.2 Back-end Design

Our Web Application is Dynamic this function works by using the internet. In backend, design used database. The internet is a most important role in our application. The user has none access to Back-End Design.

The following figure 4.1 [4] shows how user get output form back-end database.

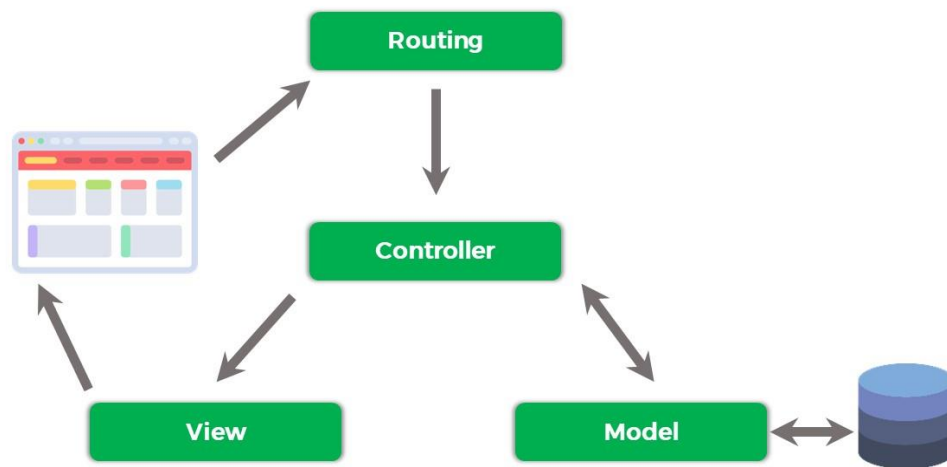


Figure 4.1: Request lifecycle [4].

DBMS tables: The following figure 4.2 shown Case Law DBMS table.

Table	Action	Type	Collation
areas	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
bookings	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
categories	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
migrations	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
password_resets	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
roles	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
schedules	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
site_settings	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
statuses	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
students	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
teachers	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci
users	★ Browse Structure Search Insert Empty Drop	InnoDB	utf8mb4_unicode_ci

Figure 4.2: System DBMS tables

4.3 Interaction Design and UX

User Experience (UX) is critical to the success or failure of a product in the market. Interaction Design is most important part of User Experience (UX) design. An application fruition depends on User satisfaction. How an application is more attractive to the user is depends on interaction and Design part. In our web application, we used the useful model of Interactive design.

The following figure 4.2 [5] shows There are 7 factors that describe user experience, according to Peter.

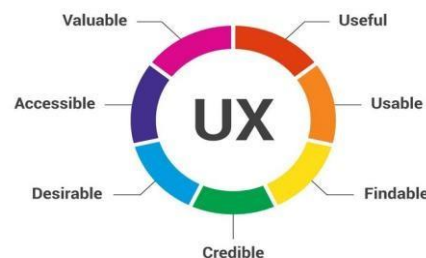


Figure 4.3: The 7 Factors that Influence User Experience [5].

Home Screen Interaction Design and UX:

We have designed our Home Screen which is linked with login page and registration page. When the application is open to the user they show home page. User are three types in our system student, teacher and admin. If the user have email/mobile number and password he/she can easily login into the system by click on the Login button. Is user don't have id or password they must registration in the system as a student or teacher.

Dashboard Screen Interaction Design and UX:

We design Dashboard screen for every user. In student dashboard, they can see their profile, update profile, booking teacher, search teacher, password change.

In teacher dashboard, he can see their profile, update profile, add counseling time, approve/rejected request booking.

In admin dashboard, admin can see the full system statistics, total student, total, teacher, total user, add department, add campus, and all user lists.

Add Counseling hour Interaction Design and UX:

In teacher dashboard, teacher can add counseling hour which see the student.

Booking Counseling hour Interaction Design and UX:

In student dashboard, student can search teacher and booking for counseling hour.

4.4 Implementation Requirements

Implementation Requirement is given below:

1. Php Storm
2. Sublime Text 3
3. HTML5
4. CSS3
5. JQUERY
6. JavaScript
7. Ajax
8. PHP OOP Programming
9. Laravel
10. MySQL

CHAPTER 05

Implementation and Testing

5.1 Implementation of Database

To build this application one DBMS (MySQL) were used. MySQL for storing data to the server. Some screenshots of the system database are shown in figure 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7:

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

		id	role_id	name	email	username	password	profile_image
☐	Edit Copy Delete	1	1	MR Admin	admin@blog.com	admin	\$2y\$10\$BShcrbLJtVYe32p0I7MFxevODNh.Rv9KLbQ0Atzbsd...	default.png
☐	Edit Copy Delete	2	2	MR Teacher	teacher@blog.com	teacher	\$2y\$10\$HJeEBuJDASjs2H3eGBKkelD6e1h5fJ43CVeQKcQrGL...	default.png
☐	Edit Copy Delete	3	3	MR Student	student@blog.com	student	\$2y\$10\$Ur6LTWnYimSMtUHpuJYFU1.TnclnvhoEJ9cjLQkRn.FN...	default.png
☐	Edit Copy Delete	4	3	Md.Saiful Islam	saiful15-7777@diu.edu.bd.com	Md.Saiful	\$2y\$10\$7uFBWT2UQLnGANwytZo1ZOB70Sq1INFM6JtCeO1VWjt...	default.png
☐	Edit Copy Delete	5	2	Md.Topu	topu86702@gmail.com	Md.Topu	\$2y\$10\$z0SNopqWkxLbbAWzu7zyOjDfQHCBoLtiIPx2SdK1x...	default.png

☐ Check all | With selected: Edit Copy Delete Export

Figure 5.1: Implementation of users table

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

		id	user_id	room_no	teacher_varcity_id	work_title	edu_degree	about_me	publication	interest	status	are
☐	Edit Copy Delete	1	2	NULL	162157770	NULL	CSE	cWJ77njOVadXPE0M7cb1Qy5xDNZAWHEC2NPIEnP4lcNrCJUIn...	Lorem ipsum dolor sit amet, consectetur adipiscing...	Lorem ipsum dolor sit amet, consectetur adipiscing...	1	
☐	Edit Copy Delete	2	5	103	12345	lecture	NULL	It is a long established fact that a reader will b...	It is a long established fact that a reader will b...	It is a long established fact that a reader will b...	1	

☐ Check all | With selected: Edit Copy Delete Export

Figure 5.2: Implementation of teacher table

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

		id	user_id	about_me	level	term	student_id_number	area_name_id	category_
☐	Edit	Copy	Delete	1	3	xWsq717p8SPTySwHqiz50HJ7ipedkKBYIXgtdlCCdFaG3PvidU...	NULL	NULL	NULL
☐	Edit	Copy	Delete	2	4	I am student.	4	3	162-15-7777

☐ Check all | With selected: Edit Copy Delete Export

Figure 5.3: Implementation of student table

☐ Show all
 | Number of rows:

25

 Filter rows:

Search this table

 Sort by key:

None

+ Options

		id	status_name	created_at	updated_at
☐	Edit Copy Delete	1	Pending	2020-09-21 14:53:10	NULL
☐	Edit Copy Delete	2	Approve	2020-09-21 14:53:10	NULL
☐	Edit Copy Delete	3	Rejected	2020-09-21 14:53:10	NULL

☐ Check all
 With selected:
 Edit
 Copy
 Delete
 Export

Figure 5.4: Implementation of status table

Options

		id	user_id	day	time_start	time_end	which_topics	created_at	updated_at		
☐	Edit	Copy	Delete	1	5	Sunday	10:00	14:00	Pre-defence	2020-09-21 15:10:09	2020-09-21 15:10:09

Check all

With selected:

Edit

Copy

Delete

Export

☐ Show all

Number of rows: 25

Filter rows: Search this table

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

Figure 5.5: Implementation of schedules table

+ Options

					id	name	slug	created_at	updated_at		
☐		Edit		Copy		Delete	1	Admin	admin	NULL	NULL
☐		Edit		Copy		Delete	2	Teacher	teacher	NULL	NULL
☐		Edit		Copy		Delete	3	Student	student	NULL	NULL

☐ Check all

With selected:

Edit

Copy

Delete

Export

Figure 5.6: Implementation of role table

☐ Show all
 Number of rows:
 Filter rows:
 Sort by key:

Options

					id	category_name	created_at	updated_at		
☐		Edit		Copy		Delete	1	CSE	NULL	NULL
☐		Edit		Copy		Delete	2	SWE	NULL	NULL
☐		Edit		Copy		Delete	3	BBA	NULL	NULL
☐		Edit		Copy		Delete	4	MCT	NULL	NULL

☐ Check all

With selected:

Edit

Copy

Delete

Export

Figure 5.7: Implementation of categories table

5.2 Implementation of Front-end Design

For implementing front-end design of the system used HTML5, CSS3, JQUERY, JavaScript, Bootstrap and Ajax. The challenge was more when we just implement the screen and there the perfection was the matters for us. There are some front-end screen given below.

5.2.1 Home Page

Home page, shown in figure 5.8, contains all the links to visit in the system and to perform tasks. Login and Registration pages are connected to this page actually other pages links will be shown after login into this system.

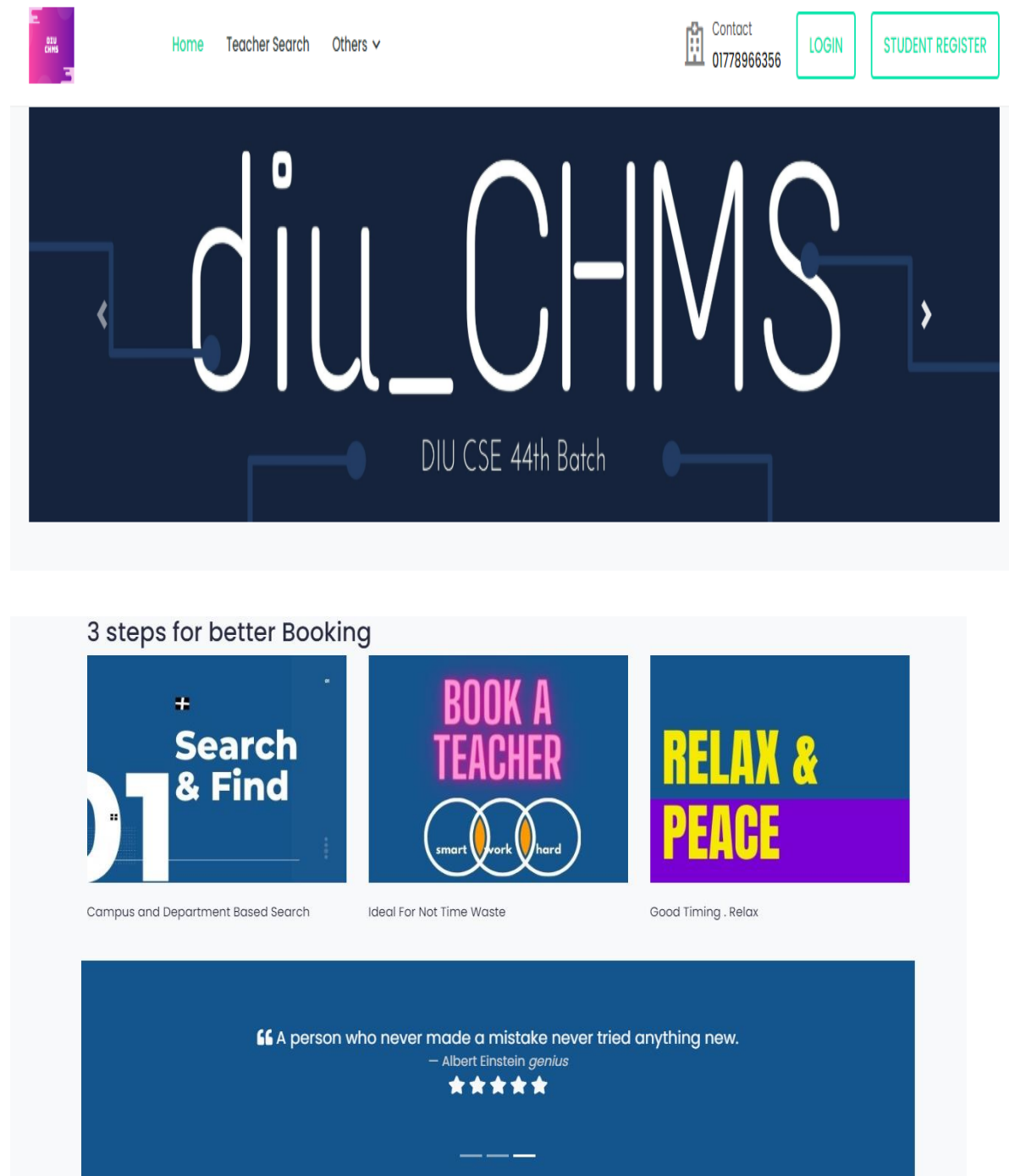
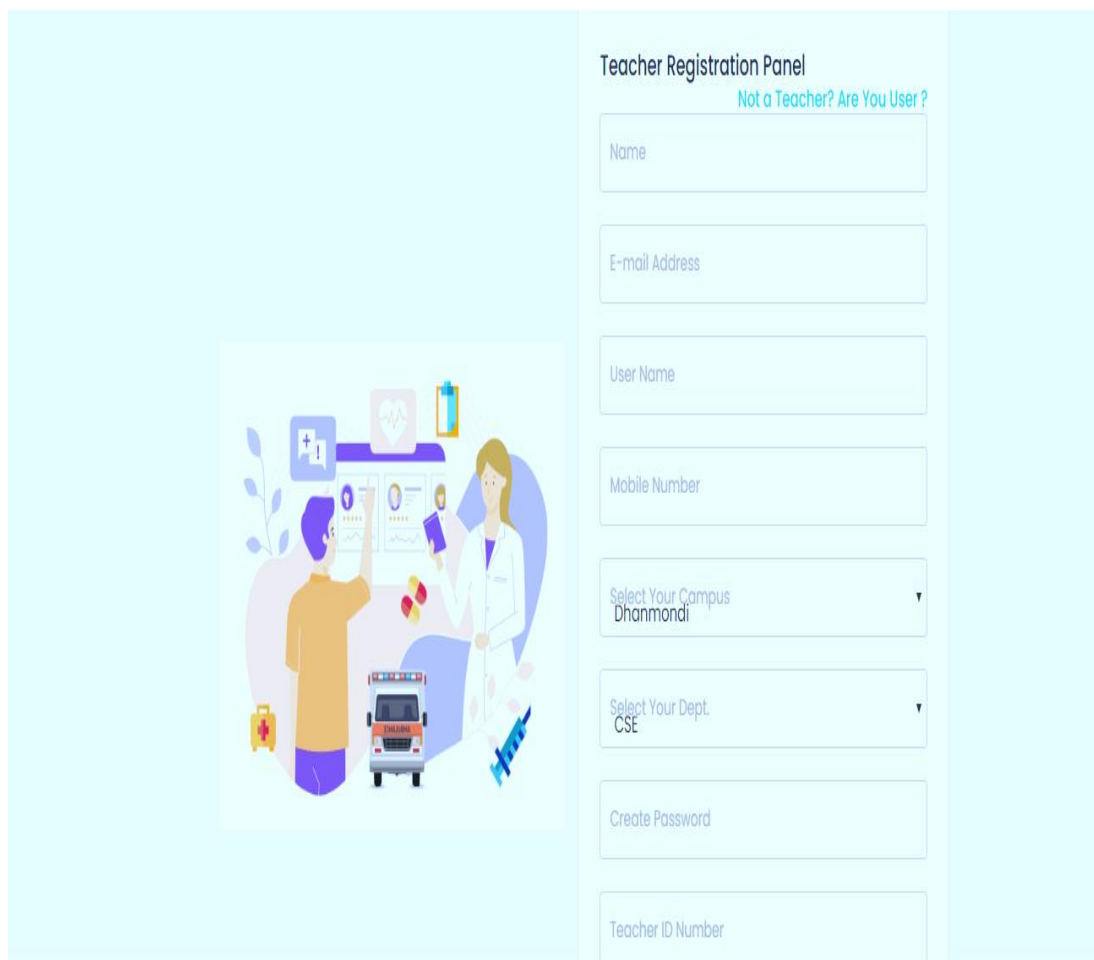


Figure 5.8: Home Page

5.2.2 Registration page for teacher

Registration is needed to login the main system. From this page user can register as teacher just fill-up name, email, username, mobile number, campus, department, password, teacher id. Admin registration handle the site owner only. This feature shown in figure 5.9.



The image shows a web page titled "Teacher Registration Panel". On the left side, there is a colorful illustration of a doctor in a white coat and a patient in an orange shirt. The doctor is holding a clipboard and a stethoscope, and the patient is holding a smartphone. There are also medical icons like a heart rate monitor, a first aid kit, and an ambulance. On the right side, there is a registration form with the following fields: "Name", "E-mail Address", "User Name", "Mobile Number", "Select Your Campus" (with "Dhanmondi" selected), "Select Your Dept." (with "CSE" selected), "Create Password", and "Teacher ID Number". Above the "Name" field, there is a link that says "Not a Teacher? Are You User ?".

Figure 5.9: Teacher Registration Page

5.2.3 Registration page for student

Registration is needed to login the main system. From this page user can register as student just fill-up first name, email, username, mobile number, campus, department, password, student id. Admin registration handle the site owner only. This feature shown in figure 5.10.

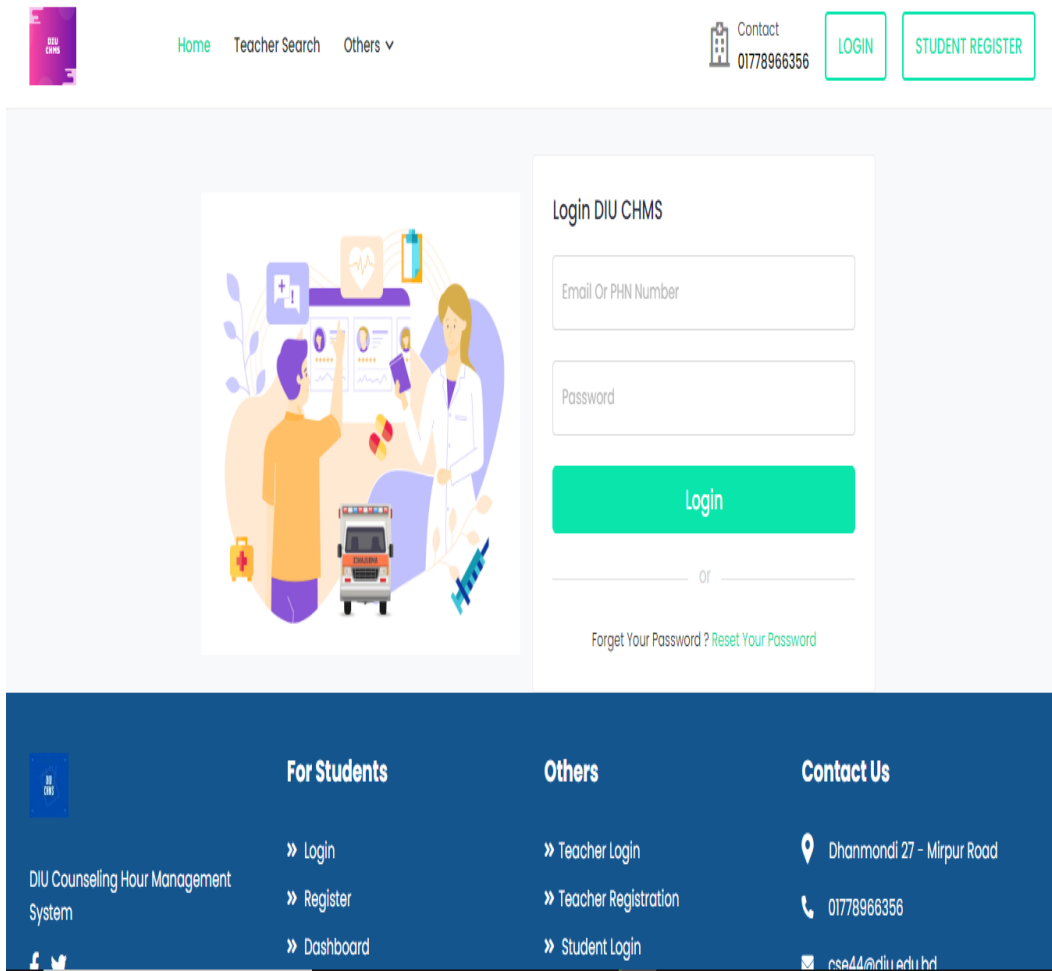


Student Register [Not a Student?](#)

Figure 5.10: Student Registration Page

5.2.4 Login Page

Login is needed to access the main system. Student, Teacher, Admin and both has the access to enter the main system. No one can access main system without login. If one forgot password then he have to click **forgot password** or if one can registration newly then he have to click **create an account**. After login everyone can see their profile for example: A student can see his profile if he login by his student account details, shown in figure 5.11



The image shows the user login page for the DIU Counseling Hour Management System (CHMS). At the top, there is a navigation bar with links for Home, Teacher Search, and Others. A contact number, 01778966356, is displayed next to a building icon. Two buttons, LOGIN and STUDENT REGISTER, are located in the top right corner. The main content area features a large illustration on the left depicting a doctor, a patient, and a medical van. To the right of the illustration is a login form titled 'Login DIU CHMS'. The form includes input fields for 'Email Or PHN Number' and 'Password', followed by a green 'Login' button. Below the button, there is a link for 'Forgot Your Password ? Reset Your Password'. The footer is a dark blue bar containing a sidebar with the system name and social media icons, and three main sections: 'For Students' (Login, Register, Dashboard), 'Others' (Teacher Login, Teacher Registration, Student Login), and 'Contact Us' (Address, Phone, Email).

DIU CHMS

[Home](#) [Teacher Search](#) [Others](#) [Contact](#) 01778966356 [LOGIN](#) [STUDENT REGISTER](#)

DIU CHMS

DIU Counseling Hour Management System

[For Students](#)

- » Login
- » Register
- » Dashboard

[Others](#)

- » Teacher Login
- » Teacher Registration
- » Student Login

[Contact Us](#)

Dhanmondi 27 - Mirpur Road

01778966356

cse44@diu.edu.bd

Login DIU CHMS

Email Or PHN Number

Password

Login

or

[Forgot Your Password ? Reset Your Password](#)

Figure 5.11: User Login Page

5.2.5 Teacher Dashboard Page

After login as teacher, teacher can see this page. Dashboard pages is linked with all other internal pages which one is needed for teacher. In this page on **Dashboard** section will show students name, booking topics, booking date, appointment status and action button. shown in figure 5.12.

Home / Dashboard

Dashboard



Md.Topu

Dashboard

Counseling Time

My Profile

Profile Settings

Change Password

Logout

Your Username

Topu

Your Email

topu86702@gmail.com

Account Created

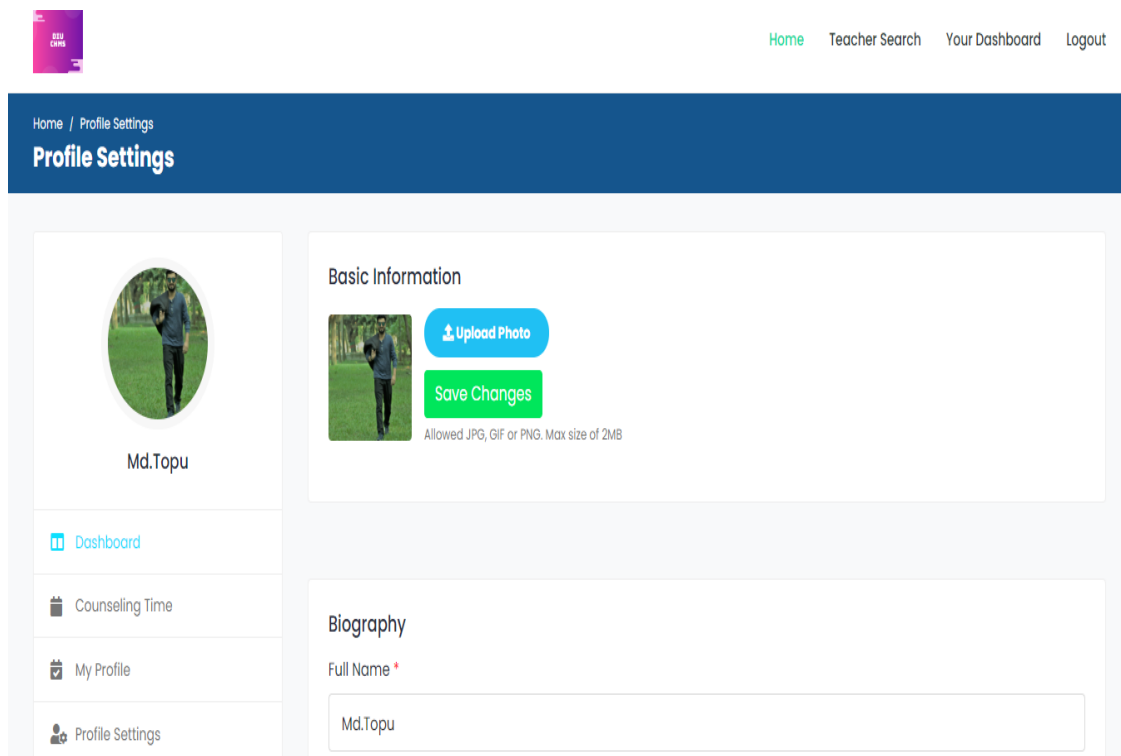
20th September 2020

Student Name	Booking Topics	Booking Date	Appointment Status	Action
Md.Saiful(Topu)	Project	08 (Tue)/Dec/2020 01:00 PM	Approve	Edit
Md.Saiful Islam	Project	09 (Fri)/Dec/2022 01:30 PM	Rejected	Edit
MR Student	laravel	16 (Wed)/Sep/2020 11:55 PM	Approve	Edit

Figure 5.12: Teacher Dashboard

5.2.6 Teacher profile update

After login as teacher, teacher can see this page and he/she can update profile shown in figure 5.13.



Home / Profile Settings

Profile Settings



Md.Topu

- Dashboard
- Counseling Time
- My Profile
- Profile Settings

Basic Information



[Upload Photo](#)
[Save Changes](#)

Allowed JPG, GIF or PNG. Max size of 2MB

Biography

Full Name *

Figure 5.13: Teacher update profile

5.2.7 Teacher add counselling hour

After login as teacher, teacher can see this page and he/she can add the counselling hour shown in figure 5.14

The screenshot shows a web application interface for a teacher's dashboard. At the top, there is a navigation bar with links: Home, Teacher Search, Your Dashboard, and Logout. Below this is a dark blue header with the text 'Home / Dashboard' and 'Dashboard' in white. The main content area is divided into a left sidebar and a main panel. The sidebar contains a profile picture of a man, the name 'Md.Topu', and a list of menu items: Dashboard, Counseling Time, My Profile, Profile Settings, and Change Password. The main panel has a 'Schedule Details' section with four input fields: 'Week Day' (with an example 'ex: SAT'), 'Time', 'Time End', and 'Which Topics'. Below these fields is a green 'Save Changes' button. At the bottom, there is a table showing the current schedule.

Day	Start Session	End Session	About Topics	Remove
Sunday	10:00 AM	01:00 PM	topics	

Figure 5.14: Teacher add for counselling hour

5.2.8 Teacher approve or rejected for booking

After login as teacher, teacher can see this page and he/she can approve or reject for student counselling hour show in figure 5.15

Home / Status Action

Status Action

Update Status

Approve

Submit Cancel

For Students

- » Login
- » Register

Others

- » Teacher Login
- » Teacher Registration

Contact Us

Dhanmondi 27 - Mirpur Road

01778966356

This web application allows faculty to share important data with students as

Figure 5.15: Teacher approve or rejected for booking

5.2.9 Student Dashboard Page

After login as student, student can see this page. Dashboard pages is linked with all other internal pages which one is needed for student. In this page student search teachers for booking counseling hour and on **Dashboard** section will show teacher name, booking data, booking status. shown in figure 5.16.

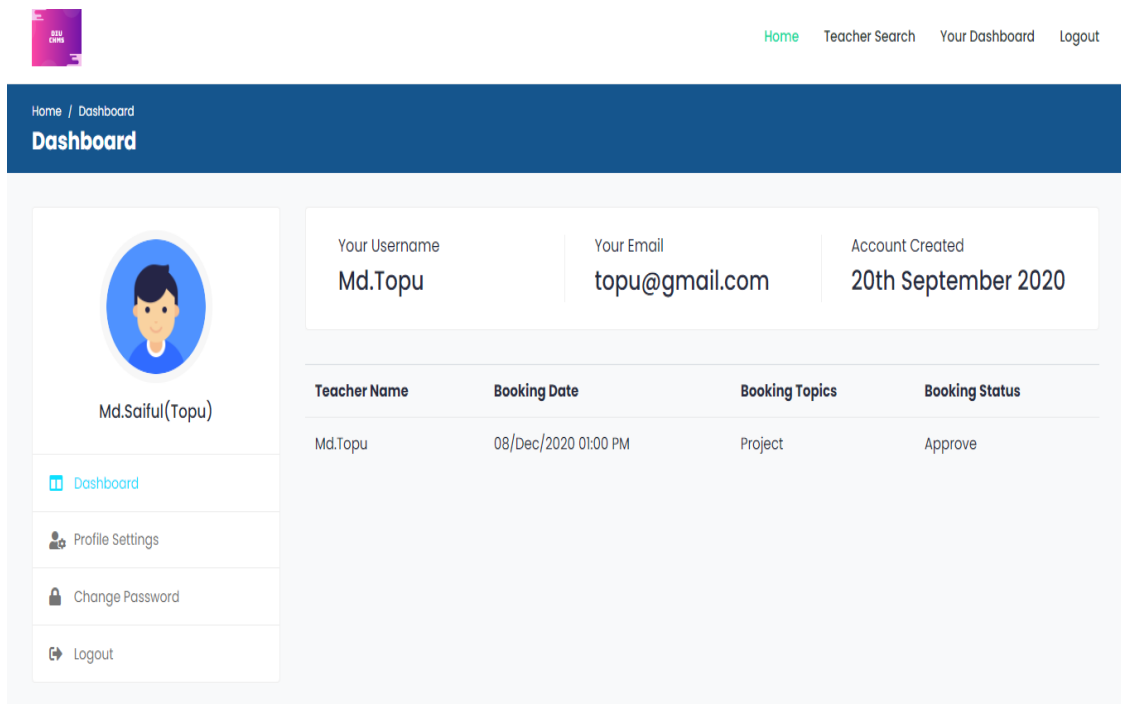


Figure 5.16: Student Dashboard

5.2.10 Student Profile Update

After login as student, student can see this page and he/she can update profile shown in figure 5.17.

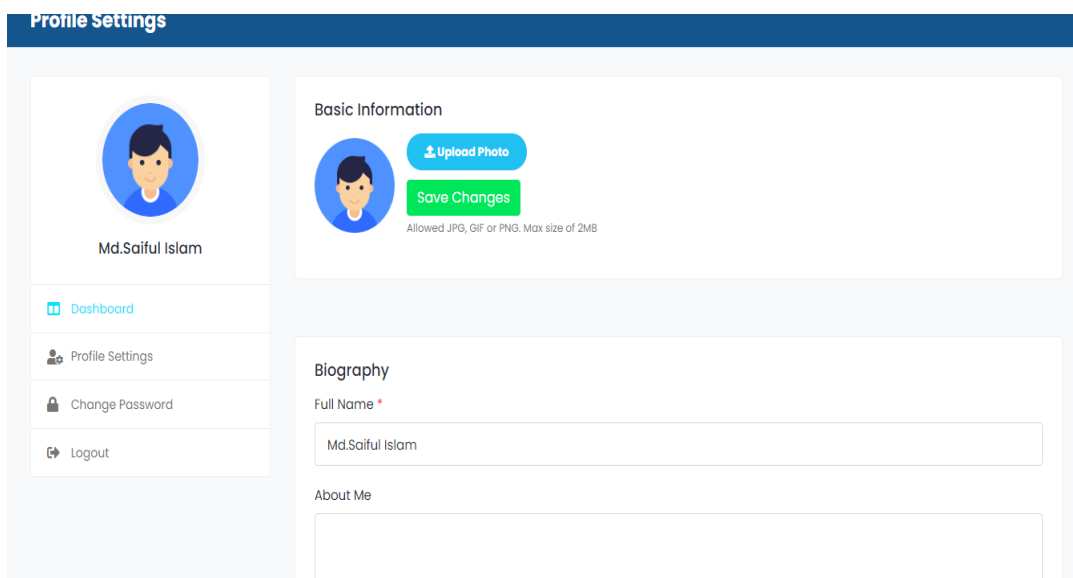


Figure 5.17: Student Profile Update

5.2.11 Student booking for counselling hour

After login as student, student can see this page and he/she can search teacher and booking for counselling hour shown in figure 5.18.

Submit Booking Information For Your Teacher

Your Topics For Booking

Booking Time mm/dd/yyyy --:-- --

Submit

For Students

- » Login
- » Register

Others

- » Teacher Login
- » Teacher Registration

Contact Us

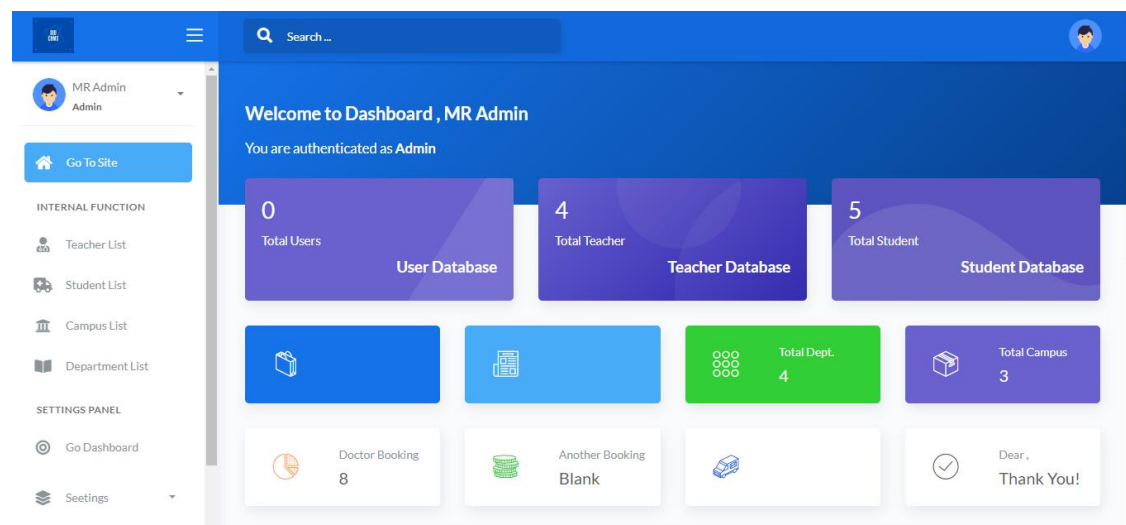
Dhanmondi 27 - Mirpur Road

01778966356

Figure 5.18: Student Booking for counseling hour

5.2.12 Admin Dashboard Page

After login as admin, admin can see this page. Dashboard pages is linked with all other internal pages which one is needed for admin. In this page admin can see number of total students, total teachers, total cases and total bids. Admin can also see recent cases and recent comment on case, shown in figure 5.19.

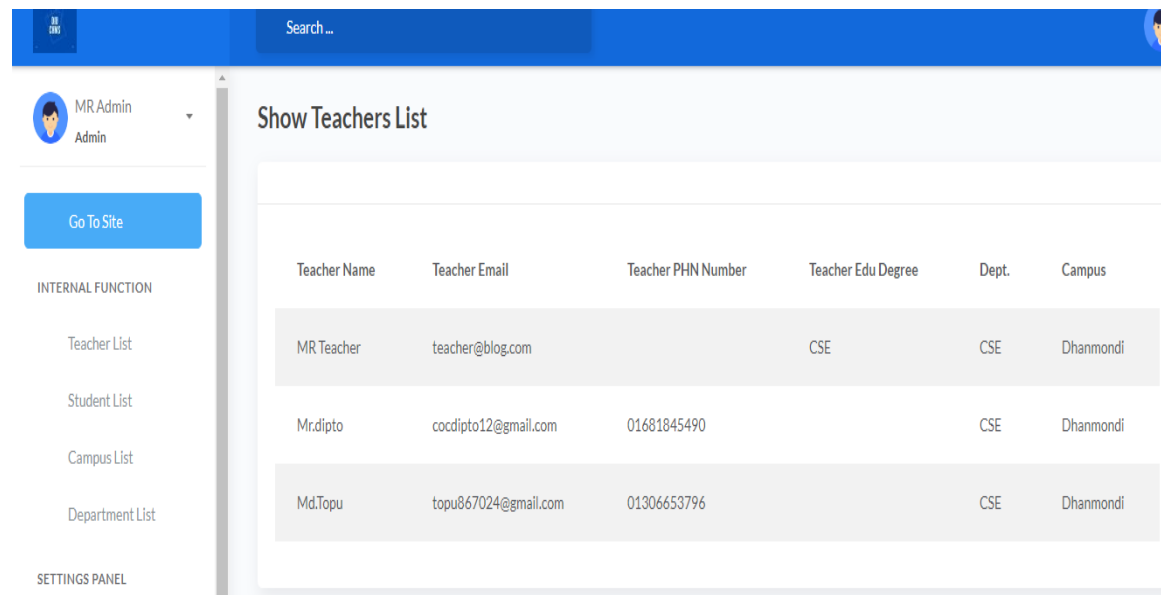


Counseling Hour Booking						
Student Name	Teacher Name	Dept.	Appointment date	Student PHN No	Status	Delete
Tapas Mandal Dipto	MR dipto	CSE	20th September 2020	01551816896	Rejected	Delete
Tapas Mandal Dipto	MR dipto	CSE	20th September 2020	01551816896	Pending	Delete
MR Student	MR Teacher	CSE	20th September 2020		Approve	Delete
MR Student	MR Teacher	CSE	20th September 2020		Rejected	Delete
MR Student	Md.Topu	CSE	20th September 2020		Approve	Delete
Tapas Mandal Dipto	MR Teacher	CSE	20th September 2020	01551816896	Approve	Delete
Md.Saiful Islam	Md.Topu	CSE	20th September 2020	01306653796	Rejected	Delete

Figure 5.19: Admin Dashboard

5.2.13 Show All Teachers

After admin login into the system he/she can see all teachers, shown in figure 5.20.

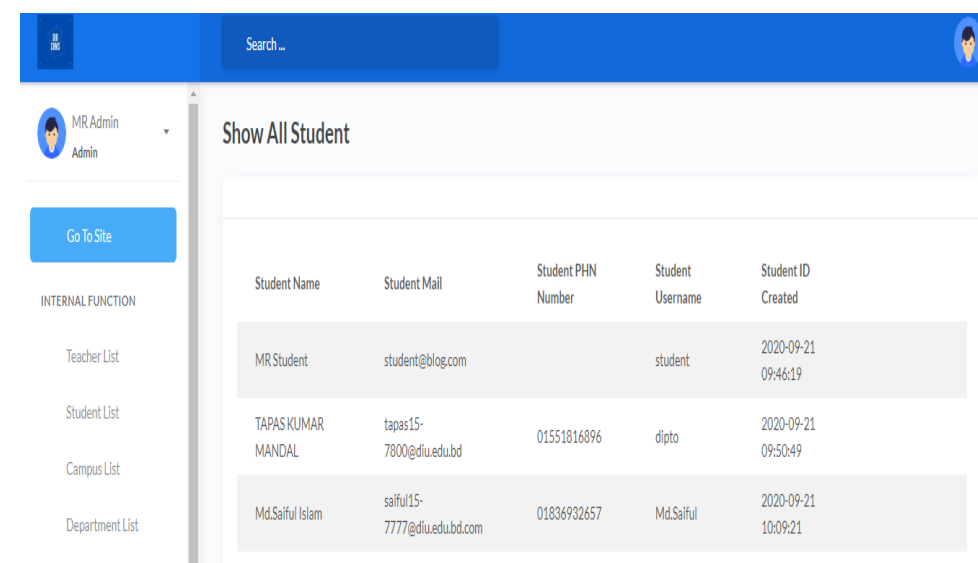


Teacher Name	Teacher Email	Teacher PHN Number	Teacher Edu Degree	Dept.	Campus
MR Teacher	teacher@blog.com		CSE	CSE	Dhanmondi
Mr.dipto	cocdipto12@gmail.com	01681845490		CSE	Dhanmondi
Md.Topu	topu867024@gmail.com	01306653796		CSE	Dhanmondi

Figure 5.20: Show All Teachers

5.2.14 Show All Students

After admin login into the system he/she can see all students, shown in figure 5.21.

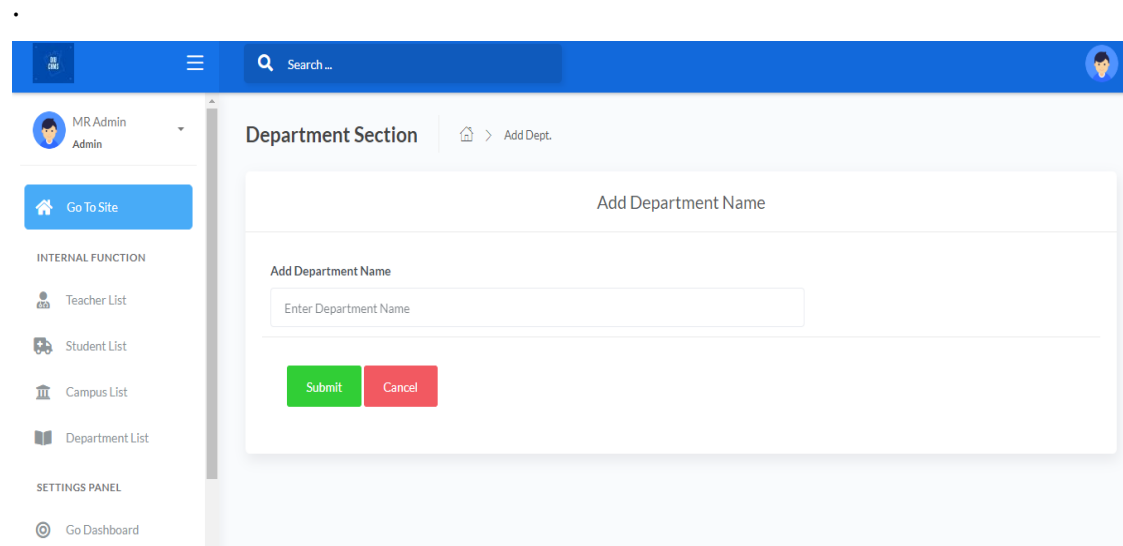


Student Name	Student Mail	Student PHN Number	Student Username	Student ID Created
MR Student	student@blog.com		student	2020-09-21 09:46:19
TAPAS KUMAR MANDAL	tapas15-7800@diu.edu.bd	01551816896	dipto	2020-09-21 09:50:49
Md.Saiful Islam	saiful15-7777@diu.edu.bd.com	01836932657	Md.Saiful	2020-09-21 10:09:21

Figure 5.21: Show All Students

5.2.15 Add Department

After admin login into the system he/she can add department, shown in figure 5.22.

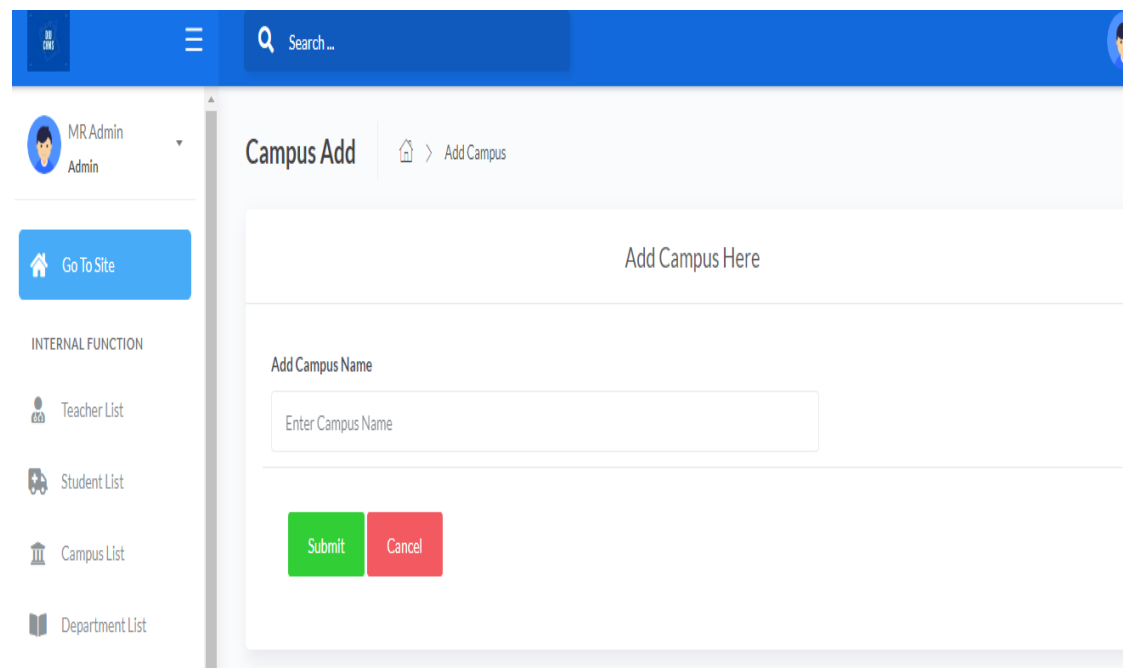


The screenshot shows the 'Add Department' form within a web application. The interface has a blue header with a search bar and a user profile icon. A left sidebar contains navigation links: 'Go To Site', 'INTERNAL FUNCTION' (with links to Teacher List, Student List, Campus List, and Department List), and 'SETTINGS PANEL' (with a link to Go Dashboard). The main content area is titled 'Department Section' and 'Add Dept.'. It features a form titled 'Add Department Name' with a text input field labeled 'Enter Department Name' and two buttons: 'Submit' (green) and 'Cancel' (red).

Figure 5.22: Add Department

5.2.16 Add Campus

After admin login into the system he/she can add campus, shown in figure 5.23.



The screenshot shows the 'Add Campus' form within the same web application. The layout is consistent with Figure 5.22. The main content area is titled 'Campus Add' and 'Add Campus'. It features a form titled 'Add Campus Here' with a text input field labeled 'Enter Campus Name' and two buttons: 'Submit' (green) and 'Cancel' (red).

Figure 5.23: Add Campus

5.3 Implementation of Interactions

Implementation of interaction is most important part of a system. Interaction means when we are in a specific function and go to another function that we want those time. We separate the function for a variant of the user. We design every user part very politely that user what he wants is indeed here. We design very carefully that the design attractive to users. An application Successions where the user is satisfied using the application. The Satisfaction level of our system is high.

5.4 Testing Implementation

When a system is implemented and test some specific function is called test implementation. We have tested our system several times. Login, Add Counselling Time, booking counselling hour, teacher approve or rejected, student Notification, Student & Teacher Registration. Test by us at various time. We have tested the following factors:

1. Login System.
2. Student Registration System.
3. Teacher Registration.
4. Admin Registration.
5. Teacher add counselling time.
6. Student Booking counselling time.
7. Teacher approve or rejected for booking.

5.5 Test Results and Reports

System Testing Table show below abridge the result of system testing:

Table 5.1: System Testing Table

Test Id	Date Tested	Tester	Pass/Fail	As a teacher login	As a student login	As a admin	Comment
1	20-09-20	Mahee	Pass	No problem	No problem	No problem	Satisfactory
2	20-09-20	Sany	Pass	No problem	No problem	No problem	Satisfactory
3	20-09-20	Arif	pass	No problem	No problem	No problem	Good

CHAPTER 06

Conclusion and Future Scope

6.1 Discussion and Conclusion

By the grace of **Almighty**, we have successfully completed our project and application. Now a day people are used to by using internet in every sector. Our web site and application helps teachers and students very much to communication for meet up. It saving out lot time stress. From our experience we face lot of problem when we want to meet with our faculty for counseling. We went several time and wait long time for another group. Then we decided to solve this problem and make this platform for both. Our work is to help student to know about the counseling hour and make it perfect.

6.2 Limitation

Like others we have also some deficiencies we could use many advanced method to make our application more user friendly. We want to make online chat system that helps more effective. We can't make it for ios everybody use it only in android system. Less options are another limitation of our work.

6.3 Scope for Further Developments

For future work, nowadays technology and modern science make our life fast and easier. In future every faculty add live status when they are free or not because some theme in counseling hour they are with another. Then we want to add our parking garage in DIU campus by using our apps it shows live capacity of there and we also want to add our library capacity by this app we can see which floor have space for study or full. We have a future plan for the application. Some of the plans are:

- Review option after using
- Social media sharing option
- Fast user interface
- Deep learning
- User reminder facility
- Online chat system
- Ios facility

References

- [1] The total number of Internet Subscribers in Bangladesh, available at <<<http://www.btrc.gov.bd/content/internet-subscribers-bangladesh-january2018>>>, last accessed on 10-06-2020 at 12:10am.
- [2] What is business process modeling? available at <<https://en.wikipedia.org/wiki/Business_process_modeling>>, last accessed on 10-06-2020 at 12:10am.
- [3] Definition of use case diagram, available at <<https://en.wikipedia.org/wiki/Use_case_diagram>>, last accessed on 04-07-2017 at 08:10am.
- [4] Laravel Architecture, available at <<<https://laravel.com>>>, last accessed on 06-08-2020 at 12:00pm.
- [5] UI/UX Design the 7 factors, available at <<<https://www.interaction-design.org/literature/article/the-7-factors-that-influence-user-experience>>>, last accessed on 06-08-2020 at 4:04pm.
- [6] Definition of system testing, available at <<https://en.wikipedia.org/wiki/System_testing>>, last accessed on 06-08-2020 at 12:00pm.
- [7] How about using Laravel for your Application? available at <<<https://medium.com/@thinkwik/how-about-using-laravel-for-your-application4faf08c7ec35>>>, last accessed on 13-5-2020 at 12:00pm.
- [8] Laravel - The PHP Framework For Web Artisans, Documentation, available at <<<https://laravel.com/docs/5.4>>>, last accessed on 31-04-2020 at 10:30am.
- [9] Nuruzzaman Milon, Laravel-PHP Web Framework, Published May 2015
- [10] Architecture of Laravel Applications, available at <<<http://www.savecontactform7.com/everything-you-need-to-know-about-laravelframework>>>, last accessed on 08-04-2020 at 01:04am.
- [11] Entity Relationship Diagram, available at <<<https://www.smartdraw.com/entity-relationship-diagram/>>>, last accessed on 04-07-2020 at 04:00pm.
- [12] Bootstrap · The most popular HTML, CSS, and JS library in the world, available at <<<https://getbootstrap.com/>>>, last accessed on 02-02-2020 at 07:00pm.

APPENDIX

Appendix A: Project Reflection

As what I have learnt during the work on Counseling Hour management, a team performance would be one with high performance and high relationship.

When we first started, I did not think that our team was able to do it. But I think our group bonding is strong and we actually complement each other.

This makes our team eventually develops a high-task team is actually the good relationship we establish along the way. As we grow very closer together. We are all in this together kind of feeling.

I remembered how we put in a lot of effort here to ensure that every member of the team has good content. We gave each other idea to develop content.

Finally, we faced many problems when we developed this project but we solved this problem together and Supervisor helps us a lot. There are some parts of our project was difficult for us to complete because of the spirit of our team.

Counseling Hour management

ORIGINALITY REPORT

29%	25%	0%	12%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

MATCH ALL SOURCES (ONLY SELECTED SOURCE PRINTED)

25%

★ dspace.daffodilvarsity.edu.bd:8080

Internet Source

Exclude quotes Off
Exclude bibliography Off

Exclude matches Off

