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**DHAKA, BANGLADESH**  
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**A WEB BASED APPLICATION FOR DIU FACULTY WHEREABOUT**

**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 titled “**A Web Application For DIU Faculty Whereabout**”, submitted by Khadiza Akter to the Department of Computer Science & 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 & Engineering (CSE) and approved as to style and contents. The presentation has been held on 4<sup>th</sup> December 2021.

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We hereby declare that, this project has been done by me under the supervision of Farah Sharmin, **Senior Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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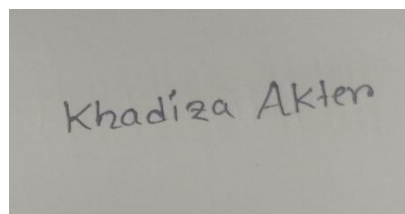
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Finally, we must acknowledge with due respect the constant support and passion of our parents.

## ABSTRACT

This project titled “**A web App for DIU Faculty WhereAbout**” is a web application for Job student and teacher of DIU. By Using this application student can search their class routine ,also teacher routine and other information throw online. Admin from diu can post student, teacher class routine and teacher also can post their information in our web app. Now a days Computer and smart phone turns into a part of our life. We can't think a single moment without Computer & Smart phone. We are bound to utilize our Computer for useful reason in our day by day life. Among these Computer OS, Web has greater percentage. Computer and mobile phone OS are likewise an open source stage and it has enormous number of clients. For this we thought, that we should build something in Web that has practical use to the user. Our app will help you with all the information about getting DIU student and teacher academic information. Our project will increase the security and decrease crime. It also saves money & reduces time. We try to make it user friendly. For Design and develop our web app, we use Bootstrap, html and CSS for front-end design and PHP framework for back-end design. We use My SQL as our main database. After finishing all the task and test process this application proved to be working effectively.

# TABLE OF CONTENTS

<b>CONTENTS</b>	<b>PAGE</b>
Board of Examiners	ii
Declaration	iii
Acknowledgements	iv
Abstract	v
Table of Contents	vi
List of Figure	viii
List of Table	ix
<b>CHAPTER</b>	
<b>CHAPTER 1: INTRODUCTION</b>	<b>1-2</b>
1.1 Introduction	1
1.2 Motivation	1
1.3 Objectives	1
1.4 Expected Outcome	2
1.5 Report Layout	2
<b>CHAPTER 2: BACKGROUND</b>	<b>3-4</b>
2.1 Introduction	3
2.2 Related Work	3
2.3 Comparative Studies	4
2.4 Scope of the Problem	4
2.5 Challenges	4
<b>CHAPTER 3: REQUIREMENT SPECIFICATION</b>	<b>5-13</b>
3.1 Business Process Model	5
3.2 Requirement Collection and Analysis	5
3.3 Use Case Modeling and Analysis	6
3.4 Logical Data Model	12
3.5 Design Requirements	13

<b>CHAPTER 4: DESIGN SPECIFICATION</b>	<b>14-18</b>
4.1 Front-end Design	14
4.2 Back-end Design	14
4.3 Interaction Design and UX	17
4.4 Implementation Requirements	17
<b>CHAPTER 5: IMPLEMENTATION AND TESTING</b>	<b>19-30</b>
5.1 Implementation of Database	19
5.2 Implementation of Front-end Design	20
5.3 Implementation of Interaction	28
5.4 Testing Implementation	29
5.5 Test Results and Reports	30
<b>CHAPTER 6: CONCLUSION AND FUTURE SCOPE</b>	<b>31</b>
6.1 Discussion and Conclusion	31
6.2 Future Scope	31
<b>REFERENCES</b>	<b>32</b>
<b>APPENDIX</b>	<b>33</b>
Appendix A: Project Reflection	33
Appendix B: Related Works	33
<b>PLAGIARISM REPORT</b>	<b>34</b>



## LIST OF FIGURES

<b>FIGURES</b>		<b>PAGE NO</b>
Figure 3.1:	Business Process Model	5
Figure 3.2:	Use Case Diagram	6
Figure 3.3:	Logical Data Model	13
Figure 4.1:	Add Student on Admin Panel	14
Figure 4.2:	Student List on Admin Panel	15
Figure 4.3:	Add Teacher on Admin Panel	15
Figure 4.4:	Student List on Admin Panel	16
Figure 4.5:	Add Student Routine Information	16
Figure 4.6:	Show Student Routine Information	17
Figure 5.1:	Admin Dashboard	19
Figure 5.2:	Student Database	20
Figure 5.3:	Teacher Database	20
Figure 5.4:	Home Page	21
Figure 5.5:	Search Teacher Routine by initial	21
Figure 5.6:	Search Teacher counselling hour by initial	22
Figure 5.7:	Student Profile	22
Figure 5.8:	Student Login	23
Figure 5.9:	Teacher Login	23
Figure 5.10:	Teacher Profile	24
Figure 5.11:	Add Teacher Routine	25
Figure 5.12:	Show Teacher Routine	26
Figure:5.13:	Add Teacher Counselling Hour	26
Figure:5.14:	Show Teacher Counselling Hour	27

## LIST OF TABLE

<b>TABLE</b>		<b>PAGE NO</b>
Table 5.1:	Test Case	29

# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

In this web based application which I build it is a centralized system. After enrolling any student initially in university they will be able to search by the teacher initial. They will get whole information about teacher. Also student can search their class routine.

### 1.2 Motivation

In Our University Many Times Students Need To Meet With Teachers For Study Purpose. So For That Reason They Come In Teachers Chamber For Counselling. But All Students Don't Know Which Teachers Chamber Is Where ,Don't Know Teachers Routine, Don't Know Their Counselling Hour, Their Phone Number, Their Email Address Etc. Often Time I Saw In Facebook Post Student Ask Teachers Information From Others Student. Then I Thought If We Have A Website Then Easily Students Can Get To Know Teachers Information. But Our University Not Have Yet This Kind Of Application Where We Can Get All Information About Teachers.

So, For This Problem Solve I Want To Build A Web Application Where Will Have All Teachers Information.

The project work is about the designing and hosting the web portal for student . Using HTML, CSS, PHP, Laravel, jQuery and MySQL for the database, this web portal has been developed.

### 1.3 Objectives

The goal of this system is help for searching faculty information easily.

The goals of our system are:

- Faculty can provide their information.
- student can see their class routine.
- For student need to login at first.
- Admin can provide student class routine, teacher class routine and other information of faculty.

## **1.4 Expected Outcome**

This system or web application will provide relief for students for getting information about faculties.

It will help also making a great connection among students and teachers .

## **1.5 Report Layout**

Chapter 1 we will discuss about introduction, objectives, motivation and the expected outcome of our project.

Chapter 2 we will discuss about related works, comparative studies and challenges that we have face to implement our project.

Chapter 3 contains requirement such as business process modeling, requirement analysis and modeling, logical data model & design specification.

Chapter 4 we will discuss about Front-end design, back-end design interaction design & UX and implementation requirements are described in this section,

Chapter 5 we discuss about the implementation of data base, implementation of front-end design, implementation of interaction, testing implementation and test results and reports.

In chapter 6 we discuss about conclusion and the future scope of our project.

## **CHAPTER 2**

### **BACKGROUND**

#### **2.1 Introduction**

DIU faculty whereabouts website is a web app that can provide the service getting faculty information and student daily class routine where admin provide and teacher provide this information after validation. In our university many times students need to meet with teachers for study purpose. So for that reason they come in teachers chamber for counselling. But all students don't know which teachers chamber is where, don't know teachers routine, don't know their counselling hour, their phone number, their email address etc. Often time i saw in facebook post student ask teachers Information from others student. Then i thought if we have a website then easily students can get to know teachers information. But our university not have yet this kind of application where we can get all information about teachers. So, For this problem solve i want to build a web application where will have all teachers information.

#### **2.2 Related Works**

There is some web app almost similar with our web app but this have some differences with our web app. Some web apps are:

**CLASS MANAGER:** This is android app it is very good but from this app we can't get faculty counselling hour information.

**CLASS ORGANIZER:** This also same like class manager it is not give faculty counselling hour. also this app right now not giving information of class routine. It is no longer being maintained or updated.

## **2.3 Comparative Studies**

This web application enables admin to add student profile and their class routine from valid information. Then this student can login in this website by their varsity email. Student can see their profile also they can update their profile if they want. They can see their daily class routine and can see teacher routine and counselling hour by search their initial. This will be helpful for student. Admin also can add teacher and their routine. Teacher can login in this website by their varsity email. They can add their class routine also can add their counselling hour.

## **2.4 Scope of the problem**

It's web application, so if the student does not have computer and smartphones or they do not know how to use computer or smartphone it will be no effect for them. In this application should contain student and teacher id and password to add and show information about class routine. It is not a mobile application so they can't download it. If they want to see information then they need internet connection. Otherwise they can't use this website.

## **2.5 Challenges**

- i. We use English to develop our application.
- ii. The application user connected by using internet. So, they must have internet connection.
- iii. Use a suitable database that store all the information and give security.

# CHAPTER 3

## REQUIREMENT SPECIFICATION

### 3.1 Business Process Modeling

Business Process Model is a procedure of making a constructional view of a system or process. It contains some process, starts, symbol, condition as like a flow chart [4]. In our project system we make a BPM model its show how to get information of varsity. Business process model shows in Figure 3.1.

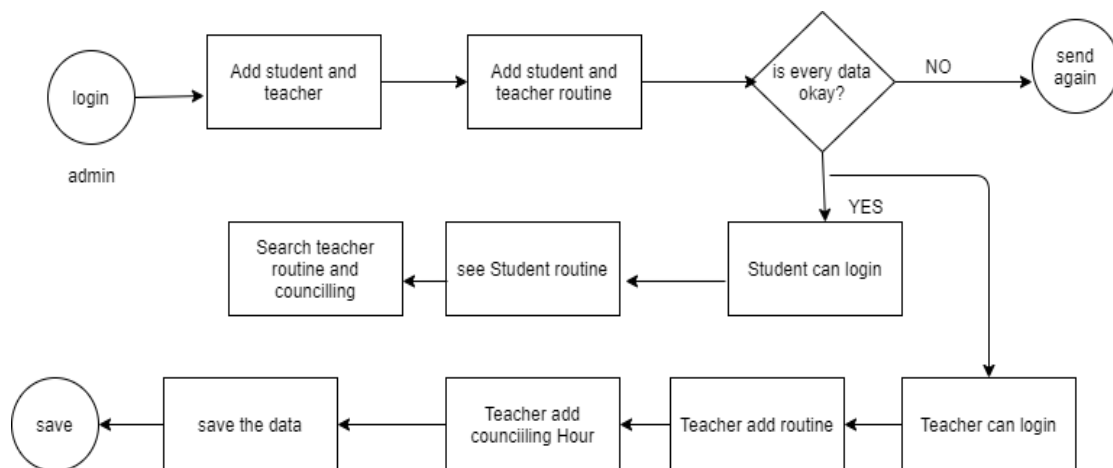


Figure :Business Process Model

Figure 3.1: Business Process Model

### 3.2 Requirement Collection and Analysis

For development a system of any kind of web application Requirement collection and analysis are very important part. It reached the goal of the user, admin. Our application concern with requirement of student , teacher and admin. We want to them and tried to know that their requirement for the web application. In this project have admin provider and user are students.

### 3.3 Use Case Modeling

A use case model described graphical description of the interactions among the elements of a system. A use case is a methodology used in system analysis to identify, clarify and organizing system requirements [5]. Use case modeling of the app is shows in Figure 3.2.

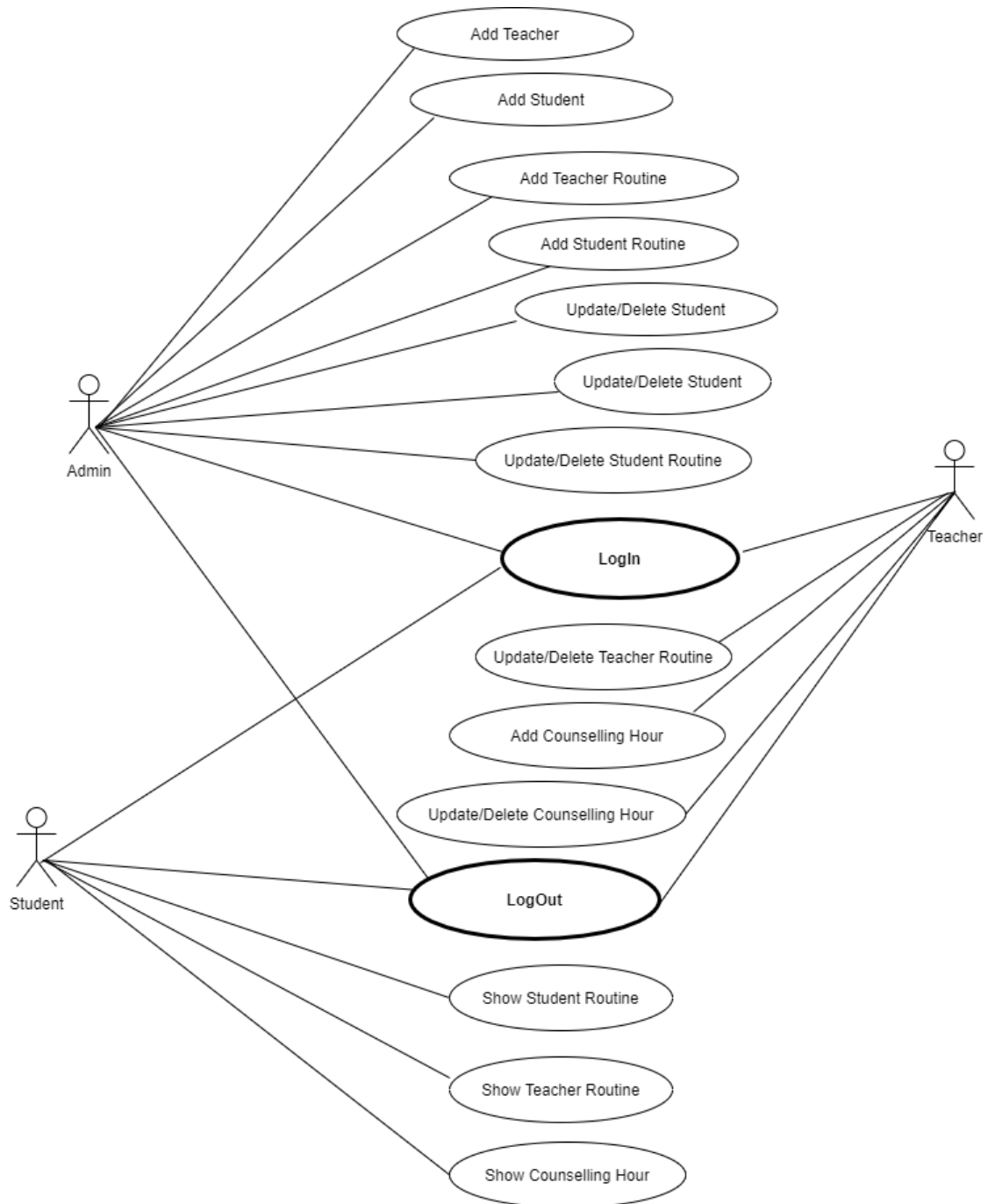


Figure 3.2: Use Case Model



Fig 3.2: Use Case Diagram

**Use Case: Admin Sign In**

**Actor:** Admin

**Precondition:** None

**Primary Path:**

1. Username
2. Password
3. Click on “Log In” button

**Alternate Path:**

1. Username or Password is incorrect

**Use Case: Admin Log out**

**Actor:** Admin

**Precondition:** Log In

**Primary Path:**

1. Click on “Log Out” button

**Alternate Path:**

1. None

**Use Case: Student Login**

**Actor:** Student

**Precondition:** Admin Student profile

**Primary Path:**

1. Enter email
2. Enter password

**Alternate Path:**

1. Enter valid email or password

**Use Case: Teacher Login**

**Actor:** Teacher

**Precondition:** None

**Primary Path:**

1. Enter Teacher email
2. Enter password
3. Click on “Log In” button

**Alternate Path:**

1. Enter valid email or password

**Use Case:** Add Student routine

**Actor:** Admin

**Precondition:** Log In

**Primary Path:**

1. Click On “Add Routine” menu
2. Enter course code
3. Enter course title
4. Select department
5. Select campus
6. Enter room
7. Enter batch
8. Select section
9. Select level
10. Select term
11. Select start time
12. Select end time
13. Click On “Submit” button

**Alternate Path:**

1. Must enter value without optional.

**Use Case:** Add Teacher routine

**Actor:** Admin

**Precondition:** Log In

**Primary Path:**

1. Click On “Add Routine” menu
2. Enter course code
3. Enter course title
4. Select department
5. Enter room
6. Enter Building
7. Enter batch
8. Enter section
9. Select day
10. Select intial
11. Select start time
12. Select end time
13. Click On “Submit” button

**Alternate Path:**

2. Must enter value without optional.

**Use Case:** Add counselling hours

**Actor:** Teacher

**Precondition:** Log In

**Primary Path:**

1. Click On “Add Counselling” menu
2. Select start time
3. Select end time
4. Click On “Submit” button

**Alternate Path:**

3. Must enter value without optional.

**Use Case:** Search Routine

**Actor:** Student

**Precondition:** Login

**Primary Path:**

1. Click On “Search” button

**Alternate Path:**

- 1.No data found

**Use Case:** Search Teacher Routine

**Actor:** Student

**Precondition:** Login

**Primary Path:**

2. Fill Search box
3. Click On “Search” button

**Alternate Path:**

1. Enter valid text

**Use Case:** Search Counselling Hours

**Actor:** Student

**Precondition:** Login

**Primary Path:**

4. Fill Search box
5. Click On “Search” button

**Alternate Path:**

1. Enter valid text

### 3.4 Logical Data Model

The logical data model of our web app contains relational table named tbl\_admin, , student, teacher, student routine, teacher routine, teacher counselling hour. Here, we can describe how these entities are connected with each other. Figure 3.3 shows the total logical data model.

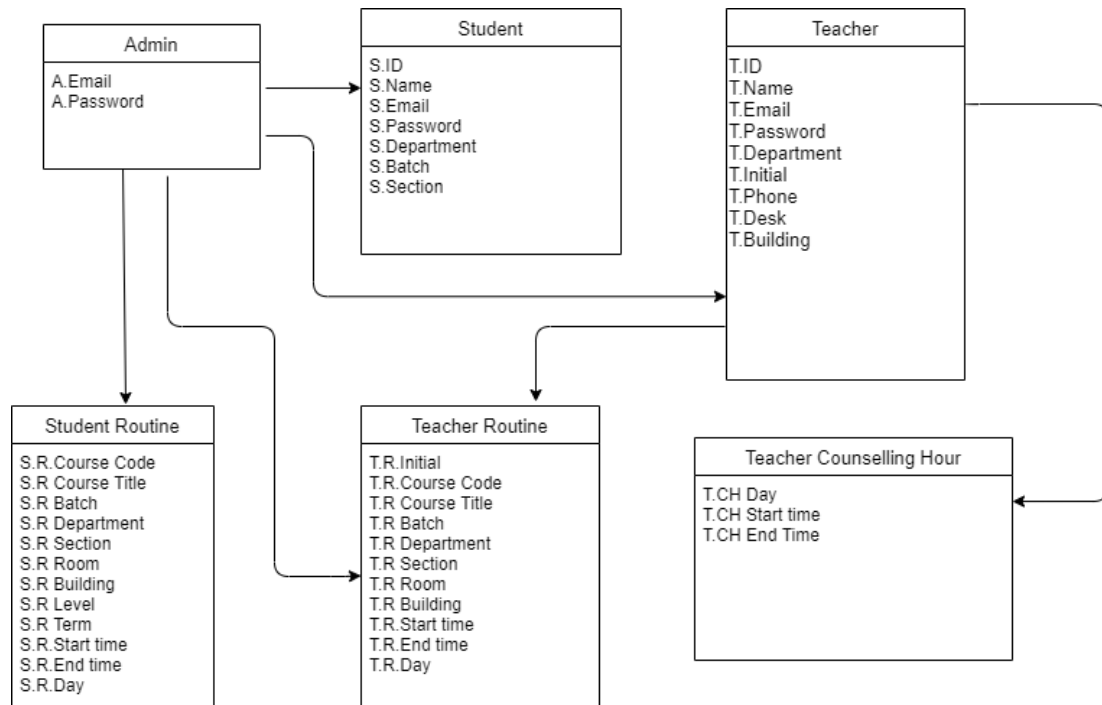


Figure 3.3: Logical Data Model

### 3.4 Design Requirement

Always a user-friendly designed web app is pleasure to use. Our app provides service to searching student and teacher routine and teacher counselling hours. Though the users of our web app are students. so, we try to develop and design the interface of our web app user friendly. A well design web app is very indispensable, but we should solidify to the output design of the web app first. User typically use this app to find their class routine. Through the users of our site are students. so, we try to make the interface of the website convenient to the user. Admin use this website to add student and teacher and student can see their routine. So, it's our responsibility to simplifying this app by making user interface simple.

## CHAPTER 4

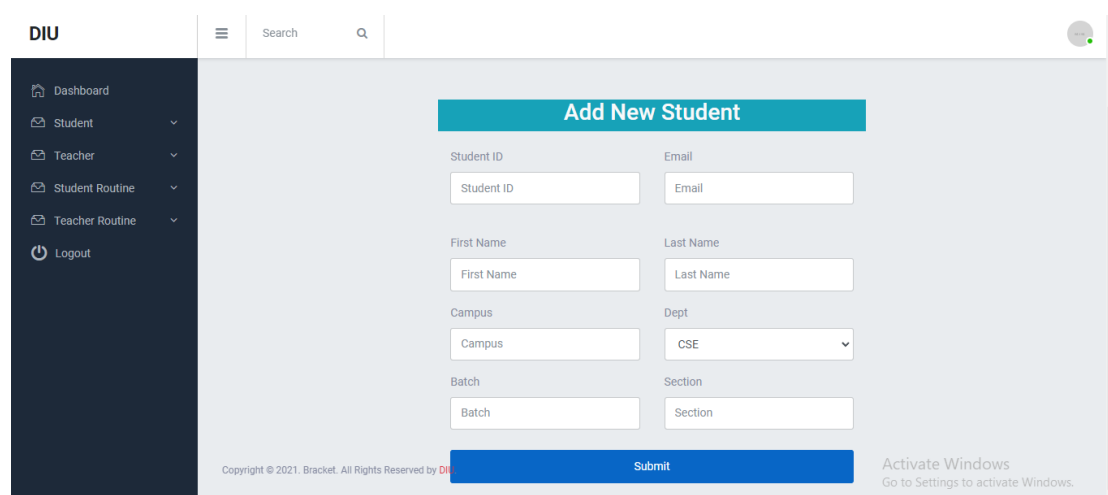
### DESIGN SPECIFICATION

#### 4.1 Front end design

Front end design is very important for take the attraction of users. For this we use many graphical user interface (GUI). Our front-end design is easily understandable by users. In our front page we set student routine. Then have teacher routine and counselling hour option. To use this app the user must complete the login[8]. Our front-end design is highly attractive. We make our front-end pages responsive. User within 10 seconds can find out his desire thing.

#### 4.2 Back end design

Back end design is only visible by developer. Back end design determines how the front-end design interact with users. To develop our project, we use Laravel framework. It's a framework of PHP programming language. we were need a database. So, we built database to store user data. We use MySQL to create the database. We make so many database Table to store data. Because we normalize our database how much possible. We have different database for admin, teacher, student etc. When a user sign in this app, a database is automatically generated for the user [9].



The screenshot shows a web application interface for adding a new student. On the left is a dark sidebar with a menu containing 'Dashboard', 'Student', 'Teacher', 'Student Routine', 'Teacher Routine', and 'Logout'. The main content area has a teal header 'Add New Student'. Below the header are several input fields: 'Student ID' and 'Email' (text inputs), 'First Name' and 'Last Name' (text inputs), 'Campus' (text input), 'Dept' (dropdown menu with 'CSE' selected), 'Batch' (text input), and 'Section' (text input). A blue 'Submit' button is at the bottom. At the bottom left, there is a copyright notice: 'Copyright © 2021. Bracket. All Rights Reserved by D...'. At the bottom right, there is a Windows watermark: 'Activate Windows Go to Settings to activate Windows.'

Figure 4.1: Add student on admin panel.

#	STUDENT ID	FIRST NAME	LAST NAME	EMAIL	DEPT	BATCH	SECTION	ACTION
1	171-15-9876	kaniz	fatema	kaniz15-9876@diu.edu.bd	EEE	49	A	<a href="#">Edit</a> <a href="#">Delete</a>
2	171-15-9027	Mim	Hossain	mim15-9027@diu.edu.bd	CSE	46	A	<a href="#">Edit</a> <a href="#">Delete</a>
3	173-15-8745	Nazia	Jahan	nazia15-8745@diu.edu.bd	CSE	48	K	<a href="#">Edit</a> <a href="#">Delete</a>
4	174-15-3789	Moumita	Hossain	moumita15-3789@diu.edu.bd	CSE	49	F	<a href="#">Edit</a> <a href="#">Delete</a>
5	171-15-9424	khadiza	akter	khadiza15-9424@diu.edu.bd	CSE	46	E	<a href="#">Edit</a> <a href="#">Delete</a>

Figure 4.2: Student list on admin panel

In above figure 4.2 we can see how much student add in our website. can see in figure 4.3.

### Add New Teacher

Teacher ID <input type="text" value="1029"/>	Email <input type="text" value="afsara.cse@diu.edu.bd"/>
First Name <input type="text" value="Afsara"/>	Last Name <input type="text" value="Tasnim"/>
Initial <input type="text" value="AT"/>	Dept <input type="text" value="CSE"/>
Phone <input type="text" value="0134678899"/>	Desk <input type="text" value="405 CSE"/>

[Submit](#)

Figure 4.3 add teacher on admin panel

Then we have see all teacher in our website.these we can see in figure 4.4.

#	TEACHER ID	FIRST NAME	LAST NAME	EMAIL	INITIAL	DEPT	ACTION
1	1289	Tariqul	Hasan	teacher3.cse@diu.edu.bd	TH	CSE	<a href="#">Edit</a> <a href="#">Delete</a>
2	1254	Ms.Farah	Sharmin	farah@daffodilvarsity.edu.bd	FS	CSE	<a href="#">Edit</a> <a href="#">Delete</a>
3	1256	Mr.Saiful	Islam	saiful.cse@diu.edu.bd	SI	CSE	<a href="#">Edit</a> <a href="#">Delete</a>
4	1267	Nusrat	Jahan	nusratjahan.cse@diu.edu.bd	NJ	CSE	<a href="#">Edit</a> <a href="#">Delete</a>
5	1029	Afsara	Tasnim	afsara.cse@diu.edu.bd	AT	CSE	<a href="#">Edit</a> <a href="#">Delete</a>

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Activate Windows  
Go to Settings to activate Windows.

Figure 4.4: teacher list on admin panel

### Add Student Routine

CSE323

CSE

263

Main Campus

11:30 AM

[Submit](#)

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Activate Windows  
Go to Settings to activate Windows.

Figure 4.5: add student routine.



**DIU** | Search

**Dashboard**  
Admin Dashboard

### Student Routine

#	COURSE CODE	COURSE TITLE	CAMPUS	ROOM	LEVEL	TERM	START	END	SECTION	ACTION
1	Eng101	English	permanentcampus	202	level2	term3	10:00 AM	11:30 AM	C	<a href="#">Edit</a> <a href="#">Delete</a>
1	CSE122	programming and problem solving	maincampus	357	level3	term1	11:30 AM	1:00 AM	B	<a href="#">Edit</a> <a href="#">Delete</a>
1	CSE221	computer network	maincampus	378	level1	term1	11:30 AM	2:30 AM	A	<a href="#">Edit</a> <a href="#">Delete</a>

Reserved by DIU. | Activate Windows  
Go to Settings to activate Windows.

Figure 4.6: student routine Information

**DIU** | Search

### Add Routine

CSE373 | Computer graphics

CSE | 48

E | Sunday

08:30 AM | 10:00 AM

main | 406

AT

[Submit](#)

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Go to Settings to activate Windows.

Figure 4.7: Add teacher routine Information

The screenshot shows the 'Admin Dashboard' with a 'Routine for' table. The table contains the following data:

#	COURSE CODE	COURSE TITLE	DAY	START	END	SECTION	BUILDING	ROOM NO	ACTION
1	CSE234	Numerical methods	SATURDAY	8:30 AM	10:00 AM	A	MAIN	374	<a href="#">Edit</a> <a href="#">Delete</a>
2	CSE234	computer network	SATURDAY	8:30 AM	10:00 AM	A	MAIN	374	<a href="#">Edit</a> <a href="#">Delete</a>
3	CSE373	Computer graphics	Sunday	8:30 AM	10:00 AM	C	main	234	<a href="#">Edit</a> <a href="#">Delete</a>

Figure 4.6: show teacher routine Information

These was the major back end design of our project.

### 4.3 Interaction Design and UX

Relationship between the application and the user is describes in Interaction Design. How much web application is well known among the user Interaction design describes the relationship between the application and the user. How much an android application will popular among the user that depends on the interaction of the app with the user. If the app is convenient to use and it provides a great outcome to the user then it will gain the popularity. Experience is very essential for interaction design. Because mainly the user experiences focused on the experience between the user and the application. From this experience we tried to make most of the features of our app that can interact with the user. Though our app is an information-based web app so we tried to provide great information to them by using the registration option which required valid email id and password of the user [8].

UX design or user experience design is the most challenging part for a programmer. Always they need to focus on the experience of user for using android app and how they become satisfy with a product. We keep attention on this sector and tried to implement an application that has satisfactory interface which should be accepted by the user.

## **4.4 Implementation Requirement**

To implement a project, we need different types of tools, components, and software. We also used some tools and component to implement our project. Since it is a web-based application project so we used web based design tools and components to implement our application. Here is a short description of the tools and components that required to implement the application.

### **4.4.1 Web platform**

Web platform is a popular platform to implement any kind of Web application. It provides the great features to the programmer to implement a web app. It provides almost all the components and tools and framework for developing web app easily and quickly. We use web platform as our application IDE. It's an open source platform so, programmer prefers Web application to develop various types' web application.

### **4.4.2 MySQL**

MySQL is the most popular real time database. We need a database to store the information of the user. We use MySQL as the main database of our application to store and maintain the information of the user. We also had to maintain the security of the personal information of the student , teacher. It synchronizing the data in real time to every connected user in the application. If we build apps that has a cross platform with PHP all of the user used the real time database instance and the user will automatically receive with the newest data by MySQL [6].

# CHAPTER 5

## IMPLEMENTATION & TESTING

### 5.1 Implementation of Database

Here we discuss about how we implement database in our system. Previously we say that we use MySQL as our database. It's the OOP version of MySQL. We know that MySQL is a real time database. So, we don't need to perform SQL query to perform action. MySQL also have all MySQL features and some extra features like prepared statements, multiple statements & transaction. Now how we use database to describe the data we explain with proper diagram [6].

In our website to be stored user data he must have to register and login. Our database normalized user data into multiple tables. The admin dashboard briefly describes the overview of our database. figure 5.1 shows the admin dashboard.

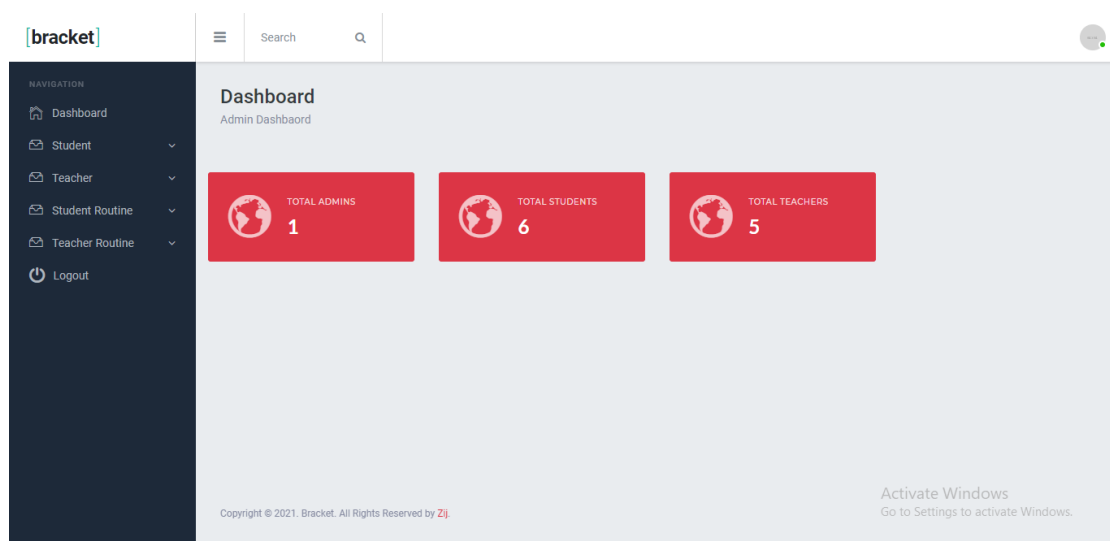


Figure 5.1: Admin dashboard.

Figure 5.1 is admin dashboard. Where admin can see Total Admin, Total Student, Total Teacher.

When a student registration themselves on our university admin add them on our website .There data are stored like figure 5.2 in our database.

Showing rows 0 - 4 (5 total, Query took 0.0031 seconds)

```
SELECT * FROM `students`
```

id	student_id	fName	lName	campus	dept	batch	section	email	created_at	updated_at
4	171-15-9876	kaniz	fatema	main	EEE	49	B	kaniz15-9876@diu.edu.bd	2021-11-29 16:58:48	2021-11-29 16:58:48
5	171-15-9027	Mim	Hossain	Main	CSE	46	A	mim15-9027@diu.edu.bd	2021-11-30 09:37:09	2021-11-30 09:37:09
6	173-15-8745	Nazia	Jahan	Main	CSE	48	K	nazia15-8745@diu.edu.bd	2021-11-30 09:37:09	2021-11-30 09:37:09
7	174-15-3789	Moumita	Hossain	Main	CSE	49	F	moumita15-3789@diu.edu.bd	2021-11-30 09:37:09	2021-11-30 09:37:09
8	171-15-9424	khadiza	akter	main	CSE	46	E	khadiza15-9424@diu.edu.bd	2021-11-30 14:18:33	2021-11-30 14:18:33

Figure 5.2: Student database.

In this above figure 5.2 we see how student data store in database. Here we see a unique id generate for user. In figure 5.3 we see Teacher database.

Showing rows 0 - 4 (5 total, Query took 0.0031 seconds)

```
SELECT * FROM `teachers`
```

id	teacher_id	fName	lName	initial	dept	email	phone	desk	created_at	updated_at
4	1289	Tariqul	Hasan	TH	CSE	Tariqul.cse@diu.edu.bd	012383947	234	2021-11-29 16:30:44	2021-11-29 16:30:44
12	1029	Afsara	Tasnim	AT	CSE	afsara.cse@diu.edu.bd	0134678899	405 CSE	2021-11-30 14:36:23	2021-11-30 14:36:23
16	1254	Ms.Farah	Sharmin	FS	CSE	farah@daffodilvarsity.edu.bd	016479402	cse409	2021-11-30 16:47:59	2021-11-30 16:47:59
17	1256	Mr.Saiful	Islam	SI	CSE	saiful.cse@diu.edu.bd	183683694	cse607	2021-11-30 16:47:59	2021-11-30 16:47:59
18	1267	Nusrat	Jahan	NJ	CSE	nusratjahan.cse@diu.edu.bd	197464361	cse304	2021-11-30 16:47:59	2021-11-30 16:47:59

Figure 5.3: Teacher database.

This was the overview of our database implementation.

## 5.2 Implementation of front-end Design

Only the front-end design is visible to user. User interact with front end so we tried our best to make this attractive and reliable to user. It also affectionate, user friendly & convenient to use. We already say that this website work as medium between student and teacher. Figure 5.4, 5.5, 5.6 and 5.7 briefly describe how is our home page.

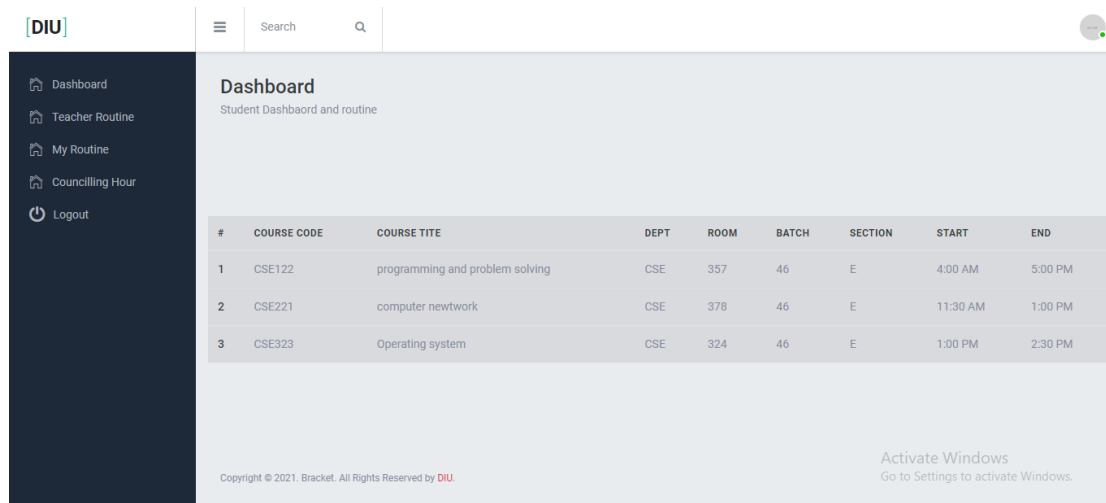


Figure 5.4: Home page

In Figure 5.4 after student login they can see in dashboard their routine.

In Figure 5.5 shows home page. When user visit to our site they see this interface where they can see profile, teacher routine, their class routine and teacher counselling hours. If any user wants to see their class routine in this website thy have to first register in varsity. In login option both can login from here.

Dashboard

Student Dashboard and routine

Teacher Initial  Search

#	INITIAL	COURSE CODE	COURSE TITE	DEPT	BATCH	SECTION	DAY	START	END	BUIDING	ROOM NO.
1	FS	CSE321	Compiler Design	CSE	48	B	MONDAY	10:00 AM	11:30 AM	MAIN	703
2	FS	CSE234	Numerical methods	CSE	46	A	SATURDAY	8:30 AM	10:00 AM	MAIN	374
3	FS	CSE450	Data Mining	CSE	48	E	Saturday	8:30 AM	10:00 AM	main	304

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Activate Windows  
Go to Settings to activate Windows.

Figure: 5.5 student can search teacher routine by their initial.

In figure 5.5 shows that is a middle part of home page where user can see all popular categories.

Dashboard

Student Dashboard and routine

Teacher Initial  Search

#	INITIAL	DAY	START	END	DESK	PHONE
1	FS	SATURDAY	8:30 AM	10:00 AM	cse409	016479402
2	FS	Wednesday	3:00 PM	12:00 AM	cse409	016479402
3	FS	Sunday	3:00 PM	4:00 PM	cse409	016479402

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Activate Windows  
Go to Settings to activate Windows.

Figure 5.6: student can search teacher counselling hour.



Figure 5.7: Student profile.

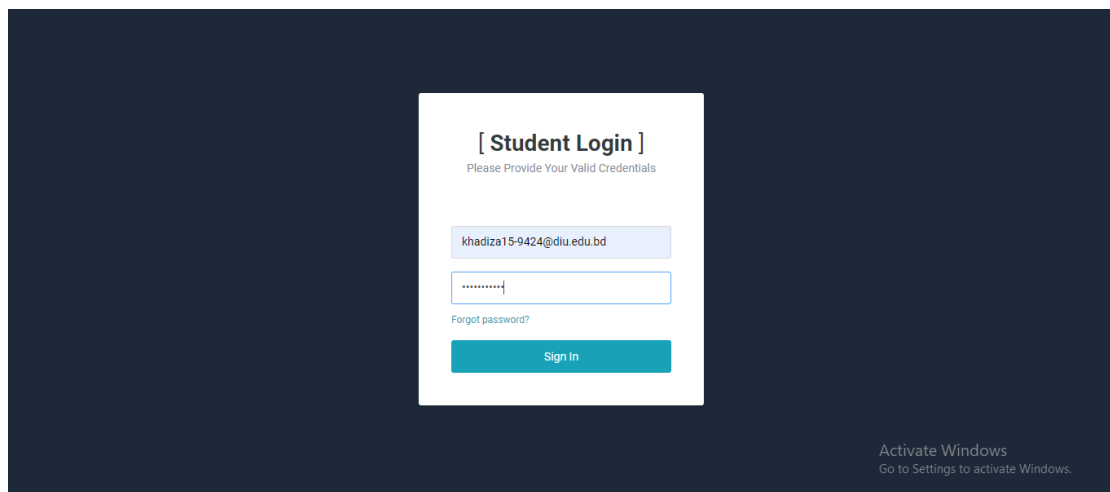


Figure: 5.8 Student login page

Figure 5.8 Shows how to login as student. To register as a student, they have to fill up the above form that are in figure 5.8. Where they have to provide their E-mail, password to login. From here admin, teacher , student all can login. For this first they have to select their position. Then they have to give email & password then they can login.



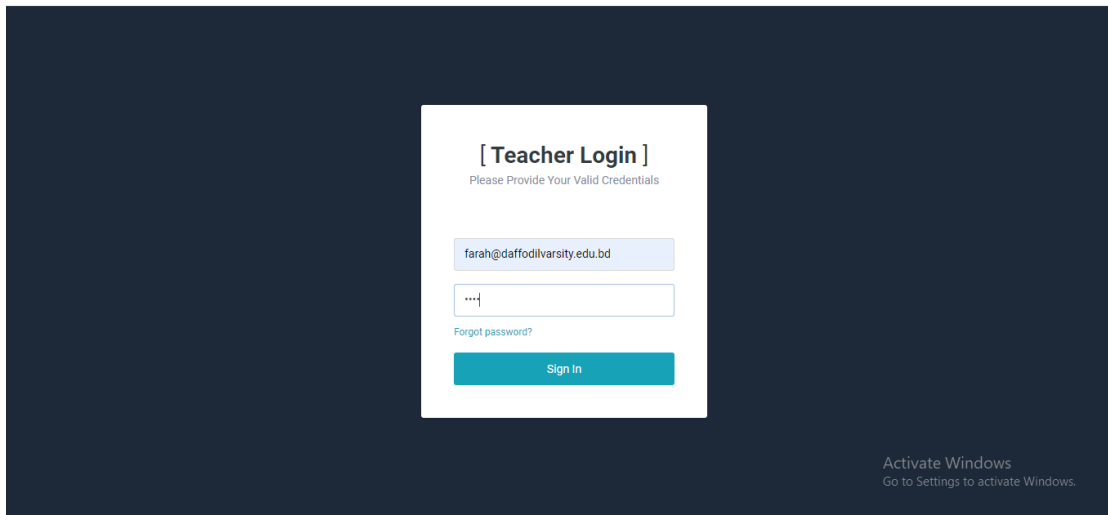


Figure 5.9: teacher Login Page

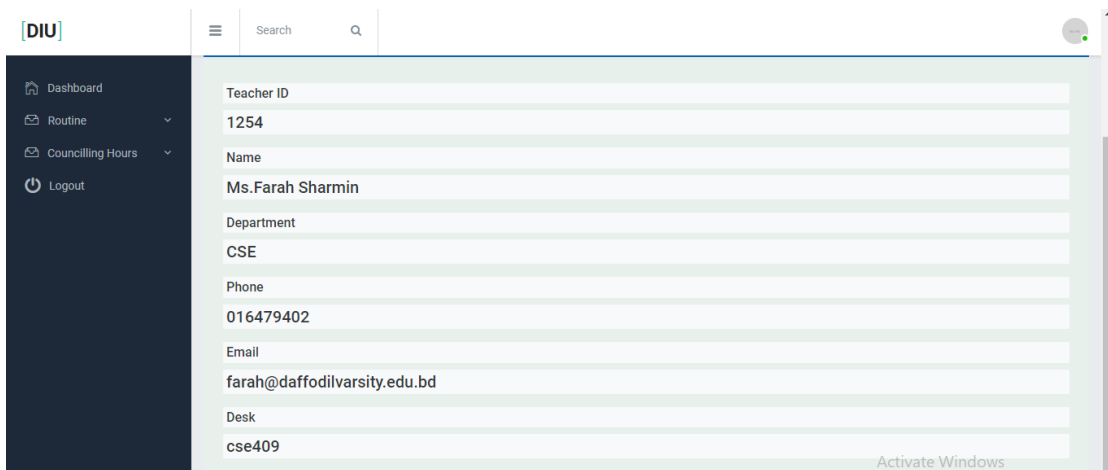


Figure 5.10: teacher profile page

To add teacher admin, has to fill up the above form that are figure 5.10. Here user have to provide their name, id number, department, email, password, mobile number..after that they can login as a teacher.

**Add Routine**

CSE450 Data Mining

CSE 48

E Saturday

08:30 AM 10:00 AM

main 304

FS

Submit

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Figure 5.11: Add teacher routine

**Press Day For Routine**

Saturday Sunday Monday Wednesday Tuesday Thursday

**Routine for SATURDAY**

#	COURSE CODE	COURSE TITLE	DAY	START	END	SECTION	BUILDING	ROOM NO	ACTION
1	CSE234	Numerical methods	SATURDAY	8:30 AM	10:00 AM	A	MAIN	374	<a href="#">Edit</a> <a href="#">Delete</a>
1	CSE450	Data Mining	Saturday	8:30 AM	10:00 AM	E	main	304	<a href="#">Edit</a> <a href="#">Delete</a>

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Figure 5.12: Show teacher routine

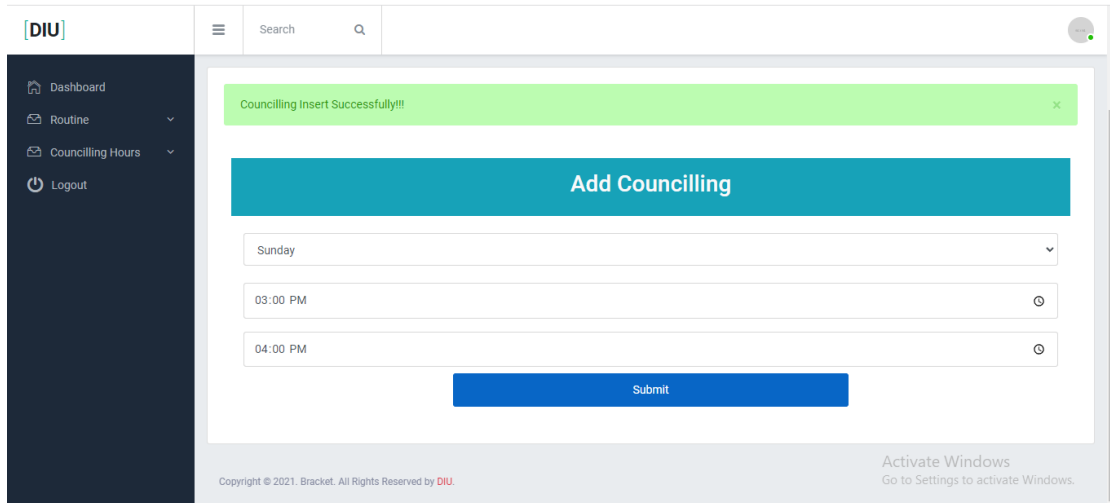


Figure 5.13: add teacher counselling hours

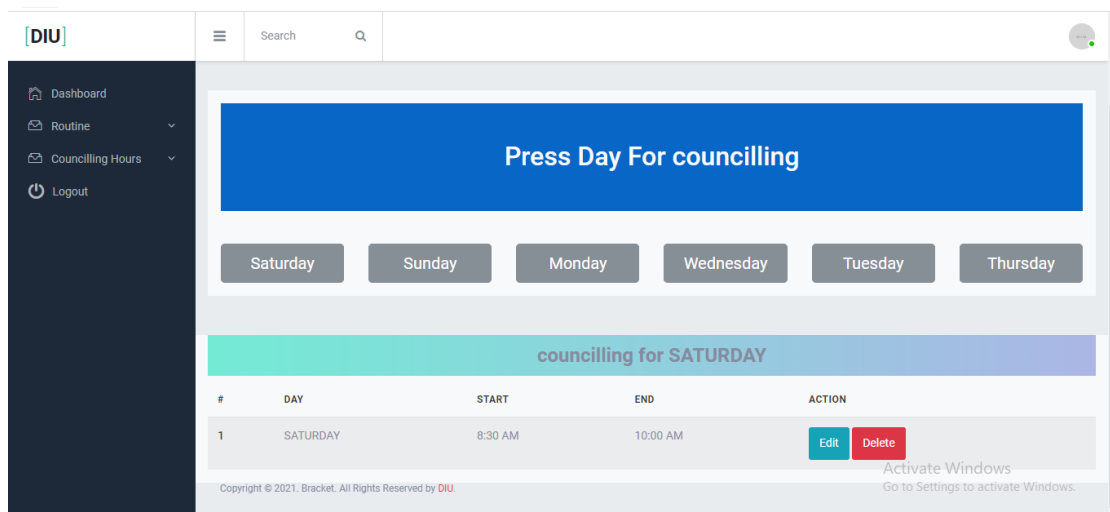


Figure 5.14: show teacher counselling hours

In figure 5.13 , 5.14 shows teacher counselling hour and teache rroutine. They can edit their all information.

### 5.3 Implementation of interaction

Our website is made to work as medium between Teacher and Student. So, it's very important that it should be very interactive with user. We make our system very much interactive for both Teacher and Student. We implement better responsive UI in our system. It gives better user experience to the users. We make our system easily usable that give better user experience to user. We implement easily understandable button, icon, form, menu bar, text, option. Within 10 seconds user can find out their needs. So, our system successfully implements all features that can give better user interaction to user. And our web app is very much interactive to users.

### 5.4 Testing implementation

Our goal is making test case series that can find out logical errors. Our test case series is highly possibility of finding errors. These techniques provide systematic guidance for designing [10] :

1. Exercise the internal logics that are we used in this system
2. Exercise the input & output of the software to remove the error functions, perform, dealing & performance of the web app.

Table 5.1: Test Case. Following test case shows the test case has been done for several time to detects error.

Serial no	Test case id	Test case name	Test case description	step	Expected result	Actual result	Test case status (pass/fail)
1	Student login	Validate login	To verify that password	Enter invalid password	Login successful or an error	Login failed & error	pass

			d & email Should be correct	rd and click sign in button	message, Email and password should have matched”	message” Email and password should have matched”	
2	Teacher login	Validate login	To verify that password & email Should be correct	Enter valid password and click sign in button	Login successful or an error message, Email and password should have matched”	Login successful	pass
3	Admin login	Validate login	To verify that password & username Should be correct	Enter valid password and click sign in button	Login successful or an error message, username and password should have matched”	Login successful	pass
4	password	Validate password	To verify that password should be correct & when error message given” password is incorrect”	Enter invalid password	Login failed and error message, password is incorrect””	Login fail & no message	Fail

## **5.5 Test result and reports**

The result of testing represents report of test case in a formal way. It describes is our project is ready to finalize or not. Through test cases we validate our system. When an error finds out through test cases, then we solve it. For example, in test case 4 there was error. Later we solve it. And now our project is 100% ok. And it passed all test cases. And now our project is ready. To test our software, we make a table where every column describes how step by step. These testing steps are adding to the test case ID, name, test case description, “step” where we write what we do for test the web app, expected result, actual result, and finally the test case passed or failed. Using these steps, we test our web app. Now our web app is 100% error free and our app is now 100% ready to use.

## **CHAPTER 6**

### **CONCLUSION AND FUTURE SCOPE**

#### **6.1 Conclusion**

In our university many times students need to meet with teachers for study purpose. So for that reason they come in teachers chamber for counselling. But all students don't know which teachers chamber is where, don't know teachers routine, don't know their counselling hour, their phone number, their email address etc. Often time I saw in Facebook post student ask teachers information from other student. Then I thought if we have a website then easily students can get to know teachers information. But our university not have yet this kind of application where we can get all information about teachers.

And finally, If DIU student and faculty member started using our web app, our project will be successful.

#### **6.2 Future scope**

We were wanted to add some features in our system but we can't implement these features due to some limitations. But the development of our project will not stop. We working in future for development of our project. We wanted this web app build like mobile app and share it in play store. So that student can easily download this app. Then for every time use they don't need internet connection. But we can't this because we were not working this before. For this reason it's become difficult for us. But in future we will learn how can make a web app like mobile application project. These are the main thing that we wanted to add in futures so that our project become more user friendly.

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## **APPENDIX**

### **Appendix A: Project Reflection**

We Started our journey from fall 2019 to implement this web application. We work to make this project user friendly. The main feature of our project is about getting teacher and student routine from admin and teacher. Security is a major issue for user. Our project provides best security for users. It is very easy to add student and teacher information. In this time people are more likely to use computer and smartphone in their day-to-day life. This web app provides them a service in there day to day life. For implementing this application firstly, we make a model of or web app then we Implement our app step by step. After Passing a long journey and our hard work finally we able to reach our goal.

Our app provides service for both student and teacher. It will reduce time, save money. Information that provides by both student and teacher can be stored in a single database which helps to reduce data Redundancy. By using this app student can easily see their class routine , teacher class routine and teacher counselling hour.

### **Appendix B: Related Works**

To implement our proposed application at first, we build a model of our app. We use some diagrams and use case model to analyze how we can implement our app. The first diagram we create the use case diagram. From the use case diagram, we can know about user of our app and what is their activity in the app. In our app there is three user and that is the student , teacher and the Admin Panel. We also use business process model which acts a flow chart. In this section we describe the activity of the user and how they interact with the system. We implement our application using web platform editor and MySQL Database

# Plagiarism Report

## DIU\_Faculty

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