

Student Guide DIU

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

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DAFFODIL INTERNATIONAL UNIVERSITY
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APPROVAL

This Project titled “**DIU Student Guide**”, submitted by **Md. Fahamidur Rahman, ID No: 151-15-5122** and **Mahadi Hasan Kamrul, ID No: 152-15-5879** 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 3rd May, 2019.

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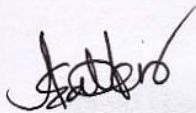
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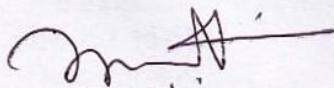
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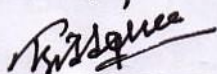
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Shah Md Tanvir Siddiquee, Senior Lecturer, Department of CSE** Daffodil International University.

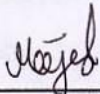
We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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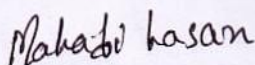
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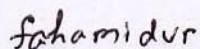


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ABSTRACT

“**Student Guide DIU**” is a web based online archive system for the students of DIU. This is a collaborative platform for Students and Teachers. In this platform the students of Daffodil International University will get every kind of help related to their courses of each semester throughout the whole BSc phase. They will be provided with all the necessary supplements such as important Videos, Slides, Previous semester question and other helpful things. A real time commenting section is also provided here so that the students can comment about their experience about the experience or suggestion **for** any kind of improvement. The teachers and students both can contribute in this system by providing their valuable Notes or other helping supplements. The admin will be able to track down the progress of the whole system in real time. This website will assist our students in a very effective way. It will help them to find a proper guideline for all of the courses. Which will finally lead them to do magnificent better results.

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

The purpose of this system is to serve the students of CSE department in DIU. Before exam they need to search different websites for different course materials. This system will help them to get all the furnished and qualityful information from the same place. They will also get the solution of previous semester questions which will be game changer for them.

1.2 MOTIVATION

Our Motivation is US. Each time a great portion of our students of different section find great difficulty to Choose or get appropriate Supplements such as videos, slides, books, Solutions of different topics of each Courses. They really get confused especially in the day before Exams. DIU Student Guide will work as an E-Guide for the students where they can get all the tools needed for a particular course. They not only can get they also can contribute in this archive system by uploading there Hand notes or Suggestions.

1.3 OBJECTIVE

The main objective of purpose of this website is to provide furnished and Quality full study materials to the students which will help them in a very effective way. Now the students have to search necessary materials for individual topics in different websites for each course. This is time consuming. Using our system they can get all requirements of every course together. This platform serves the students with proper supplements.

1.4 EXPECTED OUTCOME

They can prepare themselves appropriately for exams. Using of this system will help them to save a lots of time. Student whose attendance percentage is so poor also can take same kind of preparation like the normal regular students. They can also communicate with each other by our dynamic comment section. They can also give us suggestions so that we can develop our system in a very authentic way.

1.5 SEARCING REPORT LAYOUT

Report is one of the main asset of this project. A report without error expected. A report must **be** clean, useful and effective. Report layout of our project is easy to understand and more exact. By reading our whole report a student can use all the features of our system very effectively .

CHAPTER 2

BACKGROUND

2.1 INTRODUCTION

In this segment we will discuss about all the necessary tasks that we will gonna need to take in consideration before approaching ahead. Getting good and qualityful tools for all the courses of CSE department has always been so challenging for our students. But still in the present there is no soltuion of this scarcity. thats what has motivated us to take a step for reducing this problem

Here we want to briefly discuss about all related works.

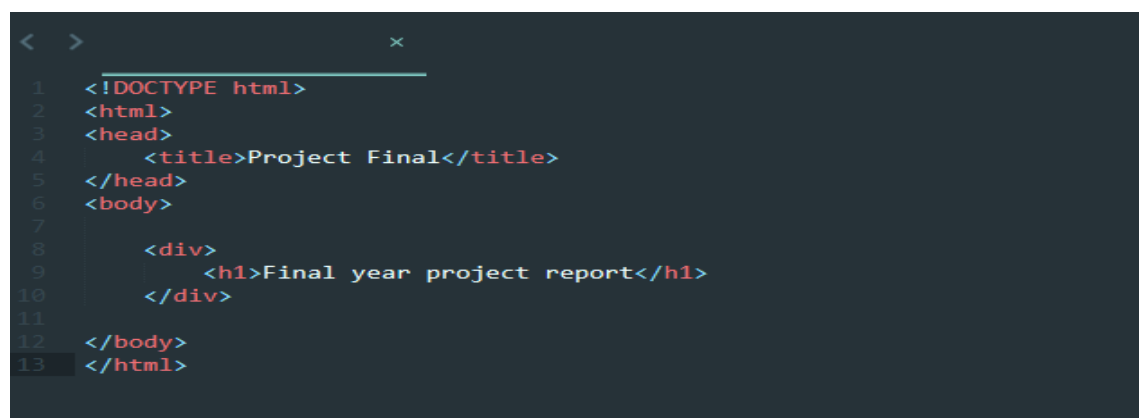
2.2 RELATED WORK

The outlook and functionalities of a project depend on the technology that is used to make the project. As DIU Student Guide is a web based project, so we needed to study into the field of web technologies to select which technologies should be used to make this project. The technologies that we used in this project are described briefly below:

2.2.1 HTML

HTML stands for "Hypertext Markup Language". HTML is the language which is vastly used to create the structure of webpages. Hyperlinks are refered by "Hypertext"that an HTML page may contain. "Markup language" refers to the way tags are used to define the page layout and elements within the page. There are too many tags used in HTML. Tags are some sort of words that stay inside <angle-brackets>. The example code below will show us the syntex of HTML which is defining a webpage with a title and containing a single paragraph.

Code example:



```

1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>Project Final</title>
5  </head>
6  <body>
7
8    <div>
9      <h1>Final year project report</h1>
10    </div>
11
12 </body>
13 </html>

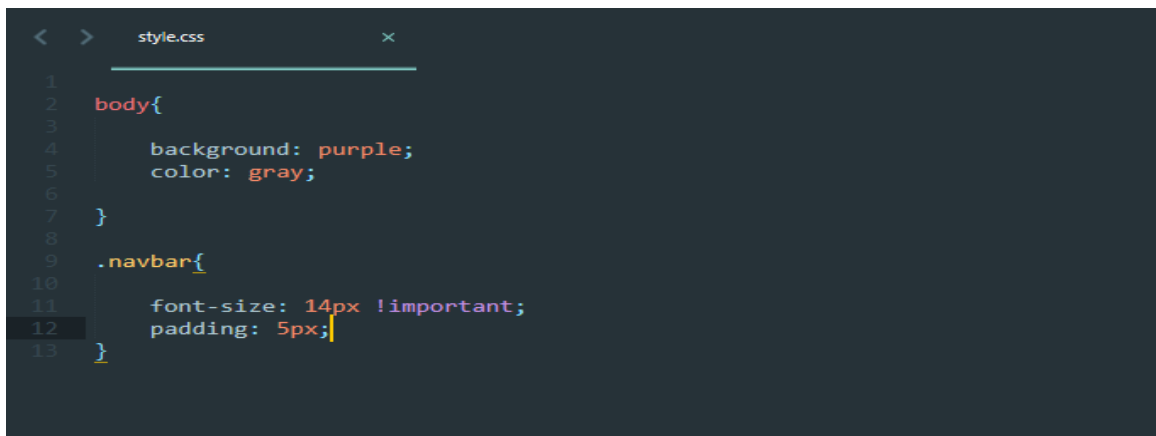
```

Figure 2.1: HTML code

2.2.2 CSS

Stands for "Cascading Style Sheet." Cascading style sheets are used to format the layout of Web pages. We can take a look at this design. It's simple yet elegant. Behind the scene to make a HTML structure to look like this we have used CSS. While CSS is great for creating styles in text, it is helpful for formatting other aspects of Web page layout as well. CSS gives web developers gets more control over the looks of web pages given by CSS then HTML. This is why CSS is vastly populer and used.

CSS code:



```

1
2  body{
3
4    background: purple;
5    color: gray;
6
7  }
8
9  .navbar{
10
11    font-size: 14px !important;
12    padding: 5px;
13  }

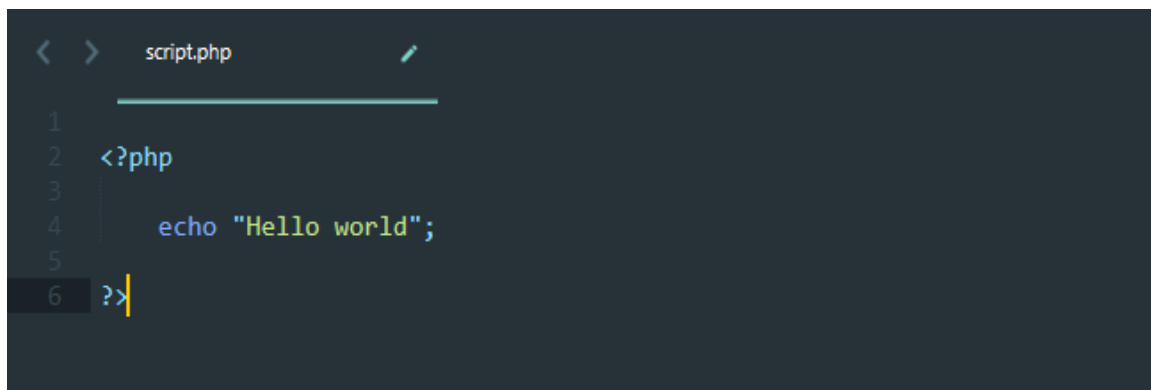
```

Figure 2.2: CSS code

2.2.3 PHP

PHP stands for "Hypertext Preprocessor." PHP code can be inserted into the HTML of a Web page. When a PHP page is accessed, the PHP code is read or by the server the page resides on. The output from the PHP functions on the page are typically returned as HTML code, which can be read by the browser. We have used PHP as the server sided language in our project.

PHP code example:

A screenshot of a code editor with a dark background. At the top, a tab is labeled 'script.php' with a pencil icon to its right. Below the tab, the code is displayed with line numbers 1 through 6 on the left. The code consists of a PHP opening tag on line 2, followed by an echo statement on line 4 that outputs the string 'Hello world'. Line 6 shows the closing PHP tag. The code is color-coded: '<?php' is blue, 'echo' is green, and 'Hello world' is yellow. A yellow cursor is positioned at the end of line 6.

```
1
2 <?php
3
4     echo "Hello world";
5
6 ?>
```

Figure 2.3: PHP code

2.2.4 JavaScript

JavaScript (JS) is one of the scripting languages. It is primarily used on the Websites. JavaScript doesn't need to be compiled because it is an interpreted language. JavaScript is a client-side scripting language. It means that the source code is processed by the client's web browser. This means JavaScript functions can run without communicating with the server after a webpage has loaded.

2.2.5 JQuery

JQuery is a library of JavaScript that allows web developers to furnish their websites with extra functionality and features.

- It simplifies the complicated things from JavaScript
- Effects and animations.
- Ajax.
- DOM element elections functions.

2.2.6 MySQL

MySQL is one of the world's most popular open source database management system. It can deliver reliable, high-performance and scalable database applications. There are several database servers, MySQL is one of them. It is fit for both small and larger applications. It is free and supports SQL on several platforms. We have used MySQL with PHP to make our system dynamic.

2.3 COMPARATIVE STUDY

There exists a lot of E-Guide in the internet for the same problem with which we are dealing. But they are not that effective. They seem to be too static and poorly managed by the authorities. Their User Interface is also not friendly enough. They are full of bugs, time consuming and needs extra efforts, they are not well organized. But in our system we have designed the whole system in a dynamic way. Our user interface is so user friendly and effective that anyone can use it. Users don't need to give unnecessary effort to get their output. Here users can keep their past track of activities saved and they will be kept updated if any new supplements arrive.

2.4 SCOPE OF THE PROBLEM

At the time of building and designing the system we found out some errors which were really critical to solve and the probability of error is a great concern of us. Errorfree system is ver important fo all the users. Creating an effective database which can be used for maintaining all the registration, login procudeures and to keep track of all the real time activities going on in the real time. Then we have to keep proper eyes to the database design so that it will help the users to keep their past activities record. User contributions is another concern of our project. Both the teacher and the student can contribute in our systyem. Managing this contributions seamlessly is another challenge.

We have a list of scope of problems.

1. Failure in the database
2. Error while registering and logging in.
3. Failure in the design
- 4.Unable to cope with the extensive traffic
- 5.Error in saving activity status

2.5 CHALLENGES

As all development type projects have to face enormous challenges. Likely others we have also faced challenges. Some of challenges are common for all development of projects. Designing an effective Database is the main challenge. Without it the core foundation of the project will crash. Maintaining the quality of the supplements and providing them to the students. Because providing faulty tools can create hude fuss and confusion among the students. It can hamper their results. Then maintaining the dynamic comment section is also a tough task. Anykind of inappropriate comment is not allowed in the system.

CHAPTER 3

REQUIREMENTS AND SPECIFICATION

3.1 BUSINESS MODEL OF PROCESS

Model of process gives a visual description of how the full system works in a Harmony. The process is shown in the following figure.

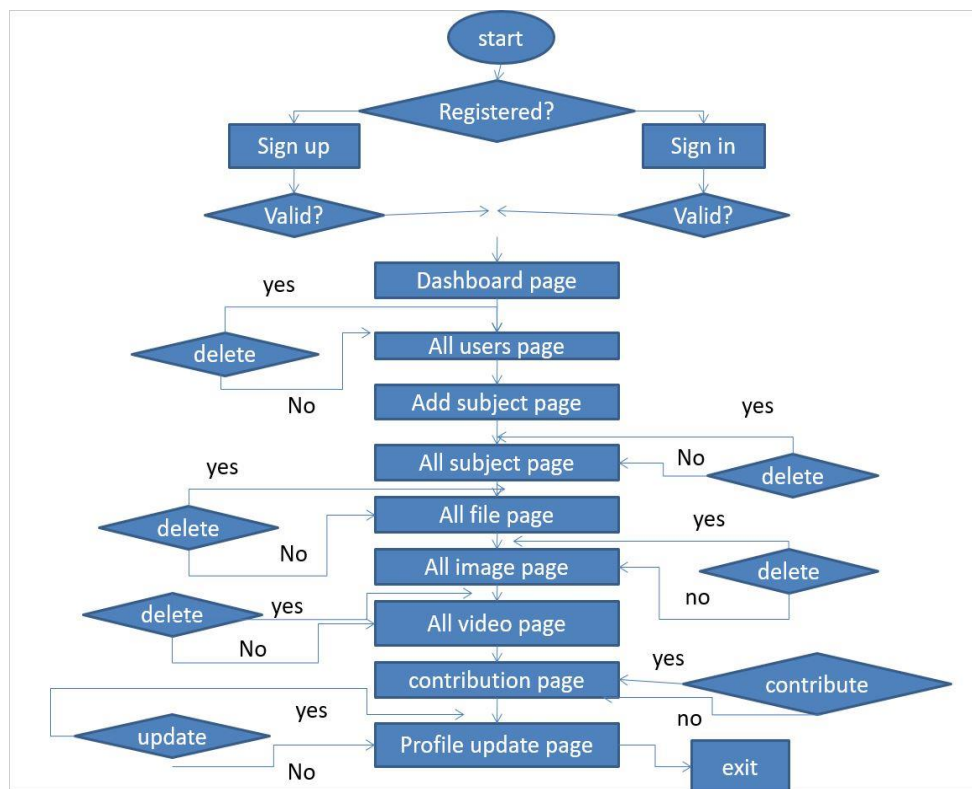
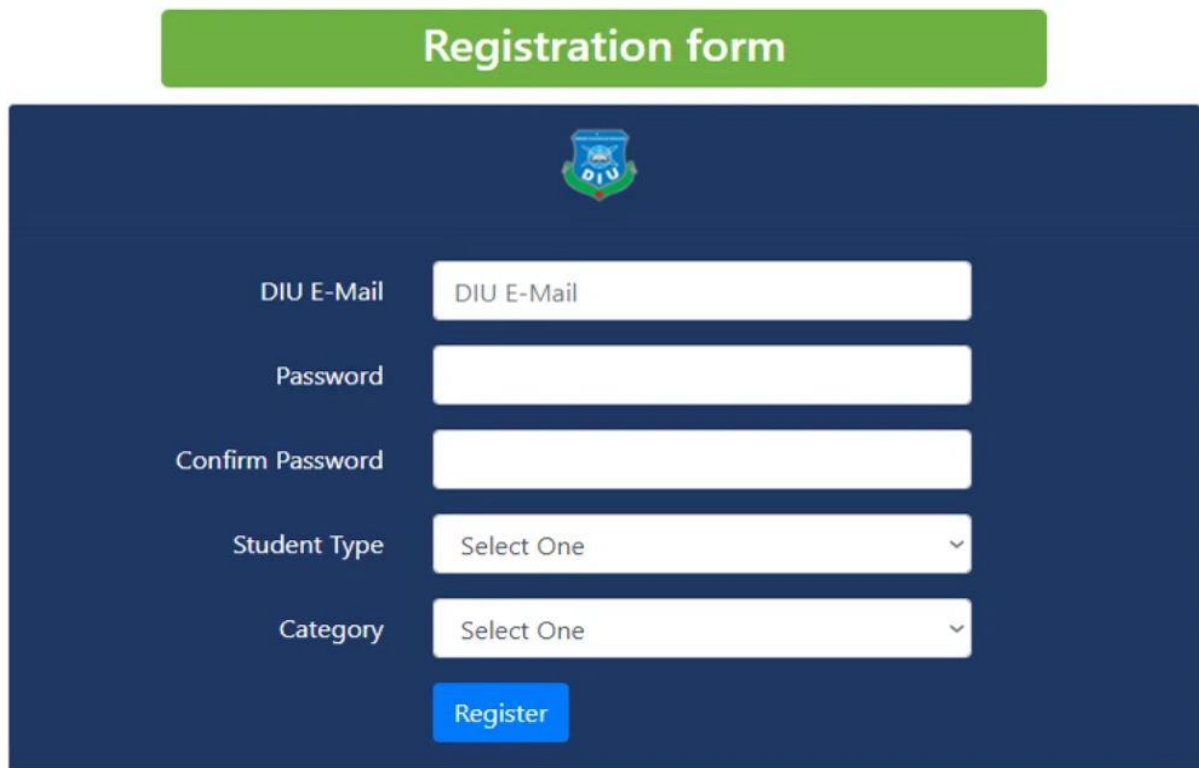


Figure 3.1: Diagram of Business Process Model

3.2 REQUIREMENT COLLECTION AND ANALYSIS

The system is based on providing data. To collect the data available to other students and share it with the other users. to make an account the user do not need much information. They simply need to be in association of daffodil international University and their provided email account. The website only needs the following data for implementation.

- A daffodil international University provided account.
- Ensure if they are a teacher or a student.
- Ensure if they belong to the day branch or the evening branch.
- Some basic knowledge to handle a website.



The image shows a registration form titled "Registration form" in a green header. The form is set against a dark blue background and features the DIU logo at the top center. It includes five input fields: "DIU E-Mail", "Password", "Confirm Password", "Student Type", and "Category". The "Student Type" and "Category" fields are dropdown menus currently showing "Select One". A blue "Register" button is positioned at the bottom of the form.

Figure 3.2: Registration Form

Via this form (3.2), the following things will be added to the database.

TABLE 3.1: Database Content

Email	Password	Type	Category
fahamidur15-5122@diu.edu.com	1234fh	3	1
kamrul15-5879@diu.edu.bd	1578km	3	1
robin15-5897@diu.edu.bd	3448rb	3	2

Here ,

TABLE 3.2: Defining Types

Type 1 = Admin Category of Admin = 0
Type 2 = Teacher Category of Teacher = 0
Type 3 = Student Category of Student = 1 & 2

Here ,

TABLE 3.3: Defining Categories

Category 0 = No Category
Category 1 = Day Student
Category 2 = Evening Student

Now the main purpose of this website is to make study easy. To share the things a student have with other students. For this purpose, the contribution page is the most important feature of this website.

The screenshot shows a web application interface for a 'STUDENT GUIDE'. The top navigation bar is blue with the text 'STUDENT GUIDE' and a user email 'fahamidur15-5122@diu.edu.bd'. A dark sidebar on the left contains 'MAIN NAVIGATION' links (Dashboard, All User, Subject Add, All Subject, All File, All Image, All Video, Contribution) and 'LABELS' (Logout). The main content area has two sections: 'File Upload' and 'Video Upload'. Each section contains a form with dropdown menus for Semester, Subject, Student Type, and Q/Title. The Video Upload form also includes fields for Video Title and Video. Both forms have an orange 'Upload' button at the bottom.

Figure 3.3: Contribution Page

The following data will be added to the table via this form (3.3).

TABLE 3.4: Types of Content

Subject	Semester	Student_Type	Image	File	Video_Title	Video
10	235	1	img.png/.jpg	file.pdf/.docs/.pptx	Confusion Matrix	Video Link from Youtube

- Each Subject has it's own integer ID
- Each Semster has it's own integer ID

3.3 USE CASE MODELING AND DESCRIPTION

We use Use Case model diagram to visualize the activities of different users in the system. The following diagram is indicating the activities of admin, student and teacher.

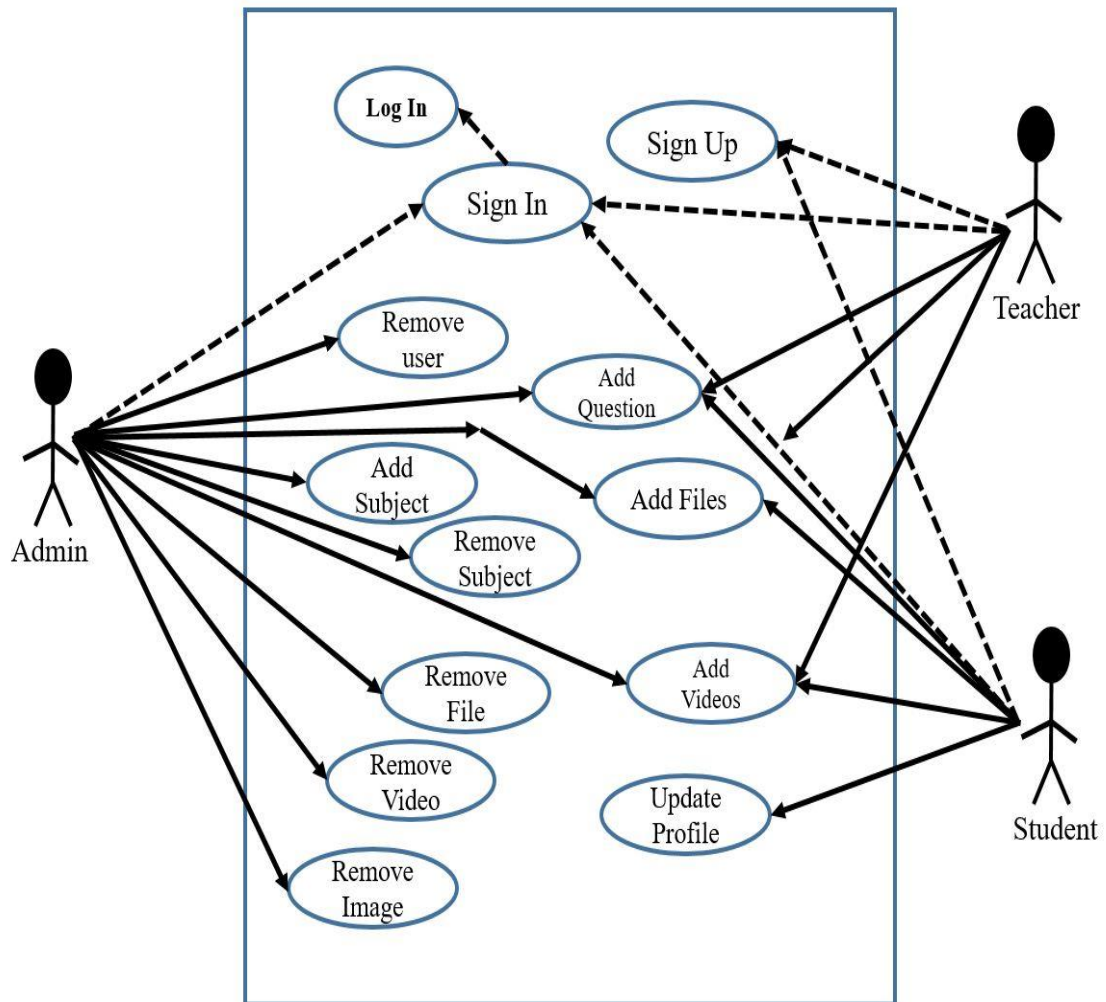


Figure 3.4: Diagram of Use Case Model

3.4 LOGICAL DATA MODEL

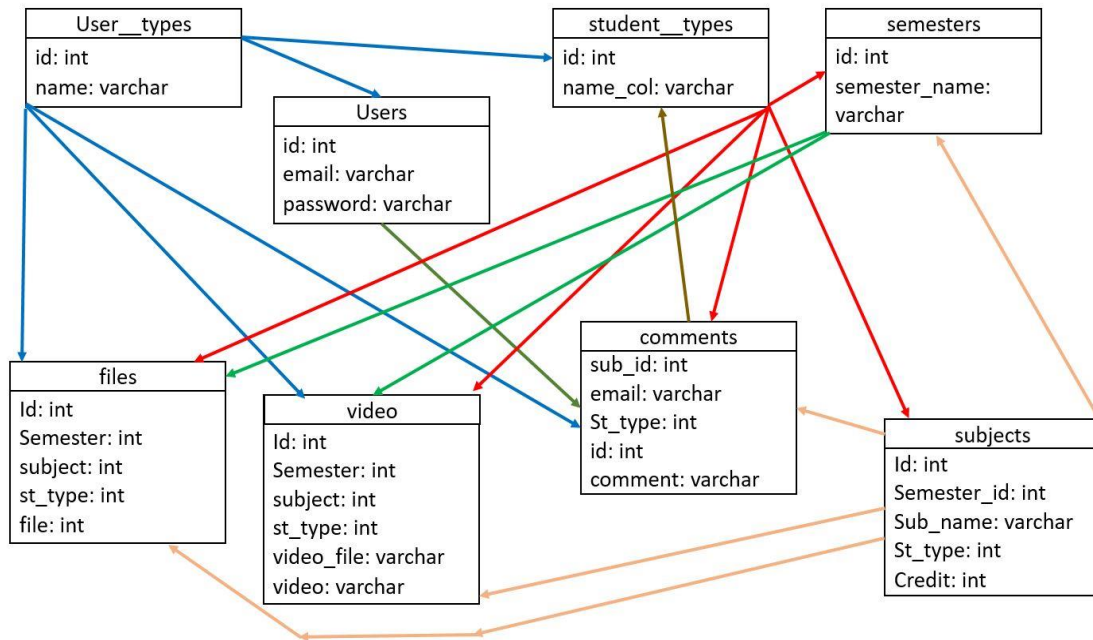


Figure 3.5: Diagram of Logical Data Model

3.5 DESIGN REQUIREMENTS

The design requirements of our system is so unique. We designed our data base in a decorative and proficient way that it can give proper output in a short time. All data requirements are arranged in separated form. The system has different segments for Admin, Teacher and students. These three characters has their individual database stuctures. The design of our database is easy to observe and interact.

CHAPTER 4

DESIGN SPECIFICATION

4.1 FRONT-END DESIGN

- ❖ Login interface design
- ❖ Registration interface design
- ❖ Layout design
- ❖ Student interface design
- ❖ Admin interface design
- ❖ Teacher interface design
- ❖ Video tutorials interface design
- ❖ Sections for Slide interface design
- ❖ Contribution section schedule
- ❖ Activities and monitoring section design
- ❖ Comment Section Design

4.2 BACK-END DESIGN

- ❖ Whole process will be divided into three parts (Student, Teacher and Admin).
- ❖ All of them have to go through registration and login system.
- ❖ Differentiating Materials according to student categories (DAY and EVENING)
- ❖ Getting materials through google Drive
- ❖ Fetching appropriate videos from different sites
- ❖ Content uploading Mechanism
- ❖ Saving activities Mechanism
- ❖ Dynamic commenting Mechanism

4.3 INTERACTION DESIGN AND UX

This system works on the basis of some proper steps. The main three role players here are Admin, Student and Teacher. They have to follow the following Steps :

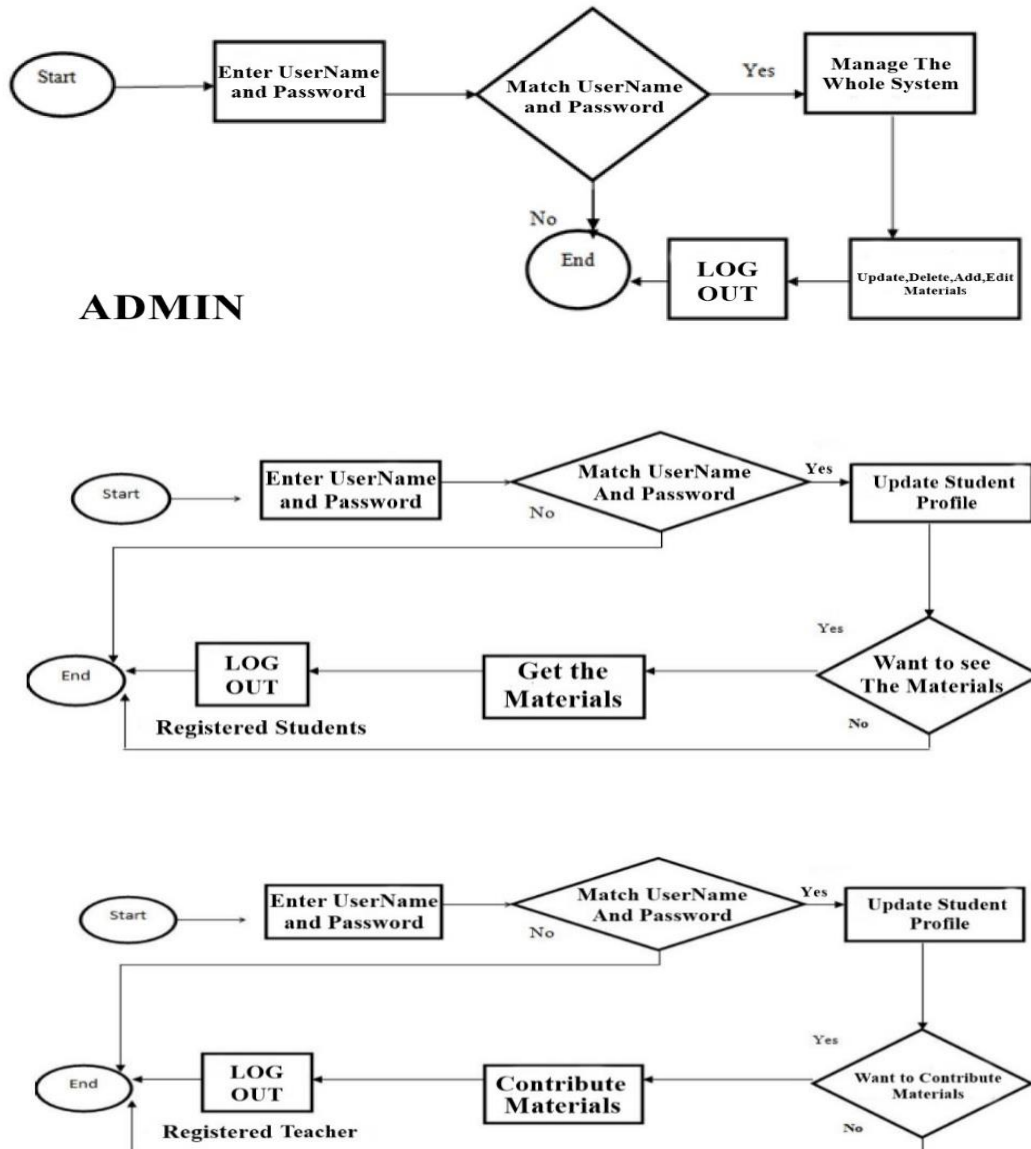


Figure 4.1: Interaction Design and UX

4.4 IMPLIMENTATION REQUIREMENTS

In case of implementing the system to get it work in real time, this task requires a server system which is installed in our environment. We have used Apache server provided by XAMP virtual server system to develop and run the system. To run the whole interface made by HTML and CSS , a browser is needed. Javascript has made our system supportable for the browsers. PHP_MY_ADMIN tool is used for maintaining our database in real time. It is used for the modification also. The server which is used must latest version of PHP and MySQL.

4.5 Implementation of DIU Student Guide

In this section of chapter 4, we have tried to show how the entire system works step by step for easier and better understanding. The steps have been shown below.

4.5.1 Home

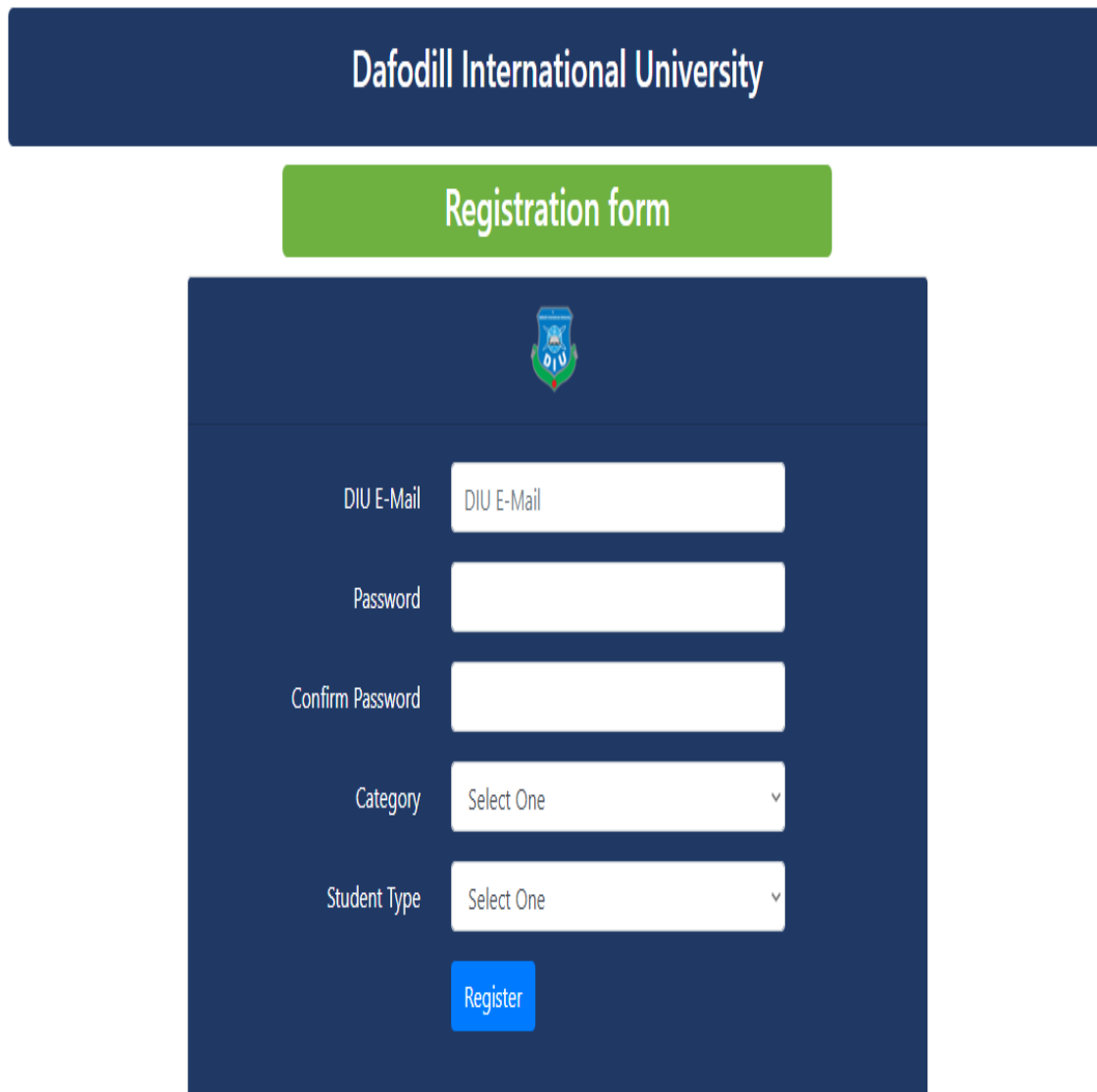
This is the landing page of our website. Here, users will either log in or register as new users.



Figure 4.2: Home page

4.5.2 Registration

Via this page, teachers and students will be registered as new users. Only DIU students and teachers will be able to register as the email ID of DIU is necessary for registration. Upon registration, a confirmation email will be sent to verify the email address and user.



The registration form is displayed on a dark blue background. At the top, a dark blue banner contains the text "Dafodill International University" in white. Below this, a green banner contains the text "Registration form" in white. The form itself is a dark blue rectangle with a white border. It features a university crest at the top center. Below the crest, there are five input fields: "DIU E-Mail", "Password", "Confirm Password", "Category", and "Student Type". The "Category" and "Student Type" fields are dropdown menus with "Select One" and a downward arrow. At the bottom of the form is a blue "Register" button.


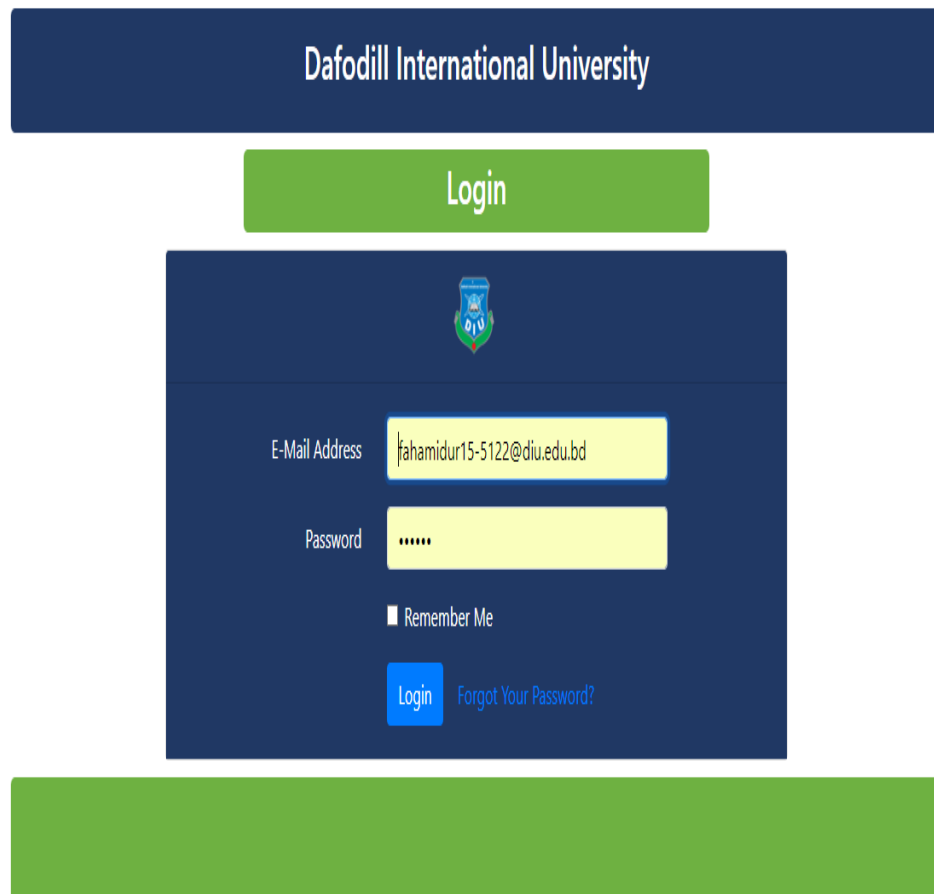
Dafodill International University	
Registration form	
	
DIU E-Mail	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
Category	<input type="text" value="Select One"/>
Student Type	<input type="text" value="Select One"/>
<input type="button" value="Register"/>	

Figure 4.3: Registration page

4.5.3 Login

The users will use this page to login to the system. If any user forgets their password, they can request password recovery via their email.



The login page features a dark blue header with the text "Daffodil International University" in white. Below the header is a green button labeled "Login". The main content area is a dark blue rectangle containing the university's logo at the top center. Below the logo are two input fields: "E-Mail Address" with the value "jahamidur15-5122@diu.edu.bd" and "Password" with masked characters ".....". Below these fields is a checkbox labeled "Remember Me". At the bottom of the form are two buttons: a blue "Login" button and a link "Forgot Your Password?". The entire form is set against a dark blue background, and there is a green bar at the bottom of the page.

Figure 4.4: Login Page

4.5.4 All User

If logged in as admin, the admin can view and control other users whom are registered to the system.

The screenshot displays the 'All User' panel in a system interface. The panel features a table titled 'Users table' with the following data:

Sl. No	Email	Category	Type	action
1	karim15-6038@diu.edu.bd	Teacher	admin	delete
2	fahamidur-5122@diu.edu.bd	Student	Evening	delete
3	fahamidur15-5122@diu.edu.bd	Admin	admin	delete
4	tanvir.cse@diu.edu.bd	Teacher	admin	delete
5	mahtfuzur33-4783@diu.edu.bd	Student	Day	delete

The left sidebar contains the following navigation options:

- STUDENT GUIDE
- MAIN NAVIGATION
 - Dashboard
 - All User
 - Subject Add
 - All Subject
 - All File
 - All Image
 - All Video
 - Contribution
- LABELS
 - Logout

Figure 4.5: All User Visualization Panel

4.5.5 Subject Add

Admins can add new subjects under corresponding semesters. The subjects will be added under corresponding semesters to the dashboard and contribution page of teacher, students and admins dynamically.

The screenshot shows a web application interface for adding a subject. The top navigation bar is blue with the text "STUDENT GUIDE" and a hamburger menu icon. A dark sidebar on the left lists navigation options under "MAIN NAVIGATION": Dashboard, All User, Subject Add, All Subject, All File, All Image, All Video, Contribution, and a "LABELS" section with a Logout link. The main content area is titled "Subject" and contains the following form fields:

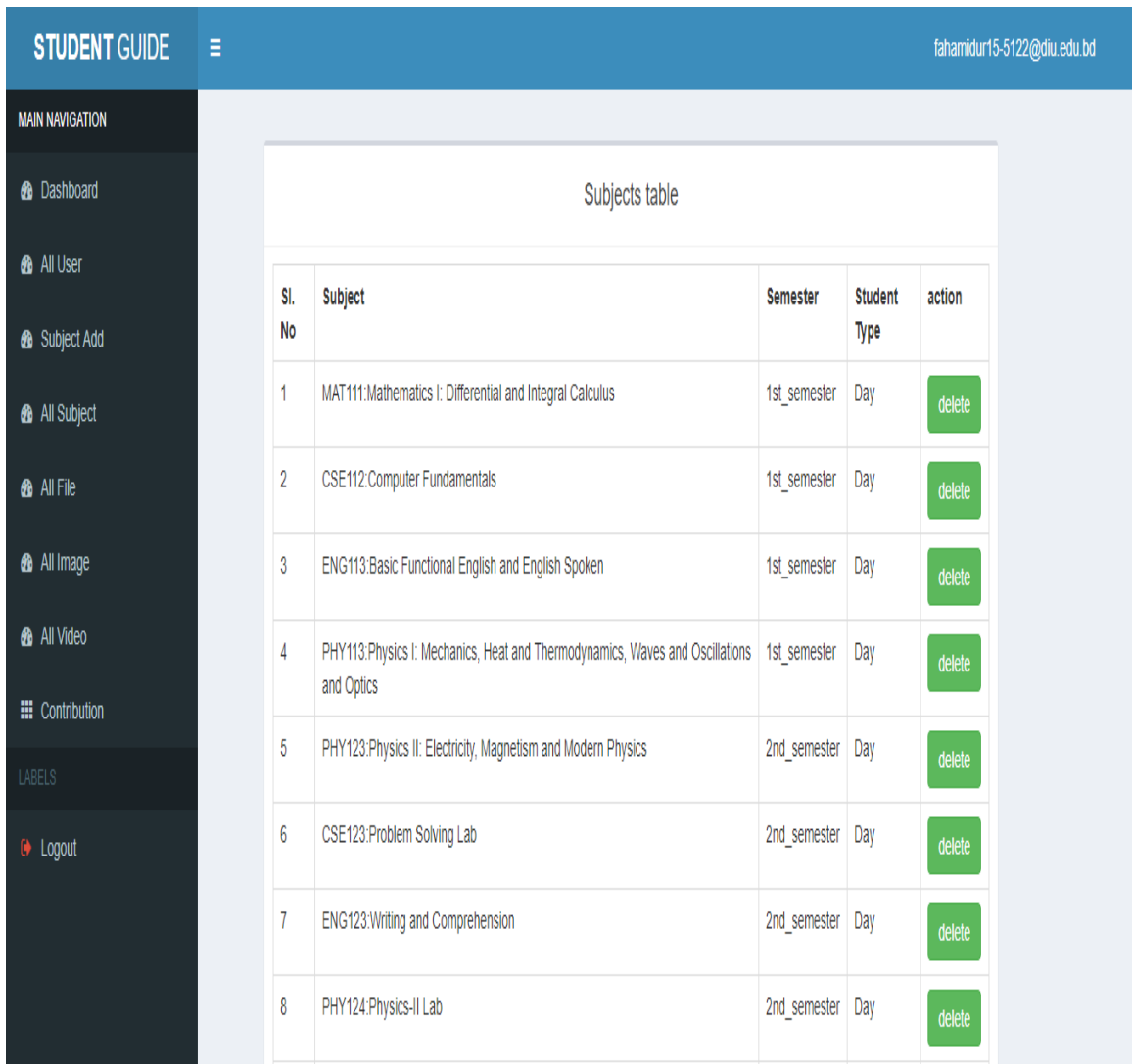
- Semester**: A dropdown menu with a grid icon and the text "Select One".
- Subject**: A text input field with an asterisk icon and the text "Subject".
- Type**: A dropdown menu with the text "Select One".
- Creadits**: A dropdown menu with a grid icon and the text "Select One".

Below the form fields is an orange button labeled "Upload".

Figure 4.6: Subject Add Panel

4.5.6 All subject

All subjects that have been added by the admins will display in this page. Admins can remove subjects form this page.



The screenshot shows a web application interface. On the left is a dark sidebar with the following navigation links: Dashboard, All User, Subject Add, All Subject, All File, All Image, All Video, Contribution, and Logout. The main content area has a blue header with 'STUDENT GUIDE' and a user email 'fahamidur15-5122@diu.edu.bd'. Below the header is a table titled 'Subjects table' with 5 columns: Sl. No, Subject, Semester, Student Type, and action. The table contains 8 rows of subject data, each with a green 'delete' button in the action column.

Sl. No	Subject	Semester	Student Type	action
1	MAT111:Mathematics I: Differential and Integral Calculus	1st_semester	Day	delete
2	CSE112:Computer Fundamentals	1st_semester	Day	delete
3	ENG113:Basic Functional English and English Spoken	1st_semester	Day	delete
4	PHY113:Physics I: Mechanics, Heat and Thermodynamics, Waves and Oscillations and Optics	1st_semester	Day	delete
5	PHY123:Physics II: Electricity, Magnetism and Modern Physics	2nd_semester	Day	delete
6	CSE123:Problem Solving Lab	2nd_semester	Day	delete
7	ENG123:Writing and Comprehension	2nd_semester	Day	delete
8	PHY124:Physics-II Lab	2nd_semester	Day	delete

Figure 4.7: All Subject Panel

4.5.7 All file

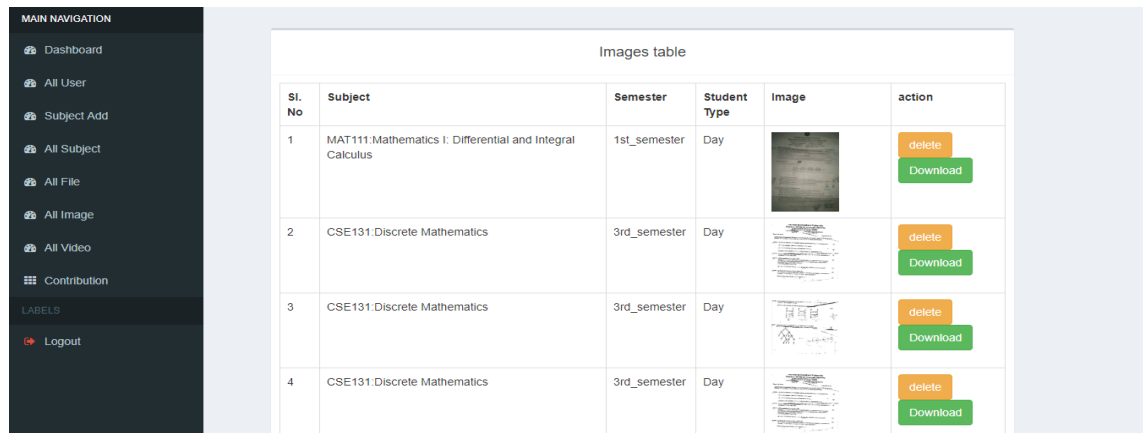
All the files that has been uploaded by the admins, the teachers and the students are displayed in this page. The admins can remove irrelevant files.

Users table					
Sl. No	Subject	Semester	Student Type	File	action
1	CSE134:Data Structure	3rd_semester	Day	file-Binary Search Trees.pdf	<div>delete</div> <div>Download</div>
2	CSE134:Data Structure	3rd_semester	Day	file-Binary-Search-Tree-Operationss.pdf	<div>delete</div> <div>Download</div>
3	CSE134:Data Structure	3rd_semester	Day	file-Breadth-First Search.pptx	<div>delete</div> <div>Download</div>
4	CSE134:Data Structure	3rd_semester	Day	file-C12-Binary Search Trees.pdf	<div>delete</div> <div>Download</div>
5	CSE134:Data Structure	3rd_semester	Day	file-CSE134_L01.1_pointers.pptx	<div>delete</div> <div>Download</div>

Figure 4.8: All File Panel

4.5.8 All Images

The images uploaded by different users are shown in this page. Admin has the authority to remove or download image from this panel.







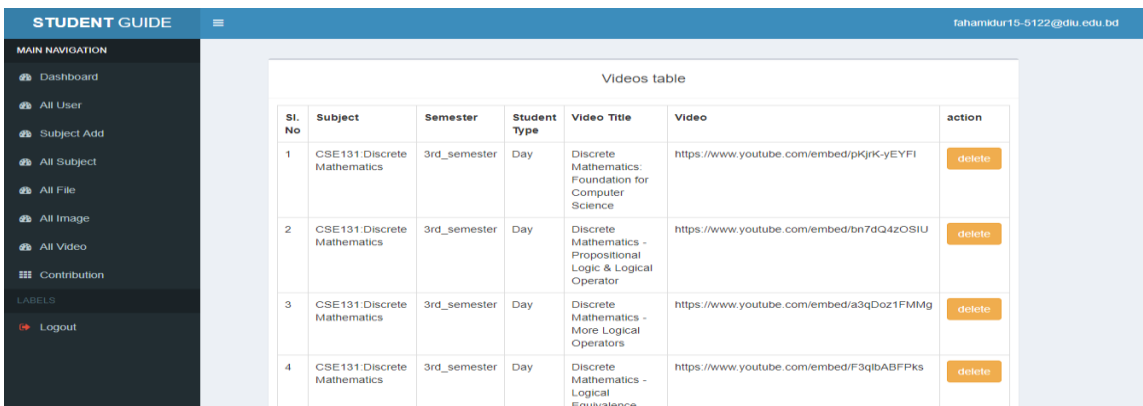
Sl. No	Subject	Semester	Student Type	Image	action
1	MAT111:Mathematics I: Differential and Integral Calculus	1st_semester	Day		<button>delete</button> <button>Download</button>
2	CSE131:Discrete Mathematics	3rd_semester	Day		<button>delete</button> <button>Download</button>
3	CSE131:Discrete Mathematics	3rd_semester	Day		<button>delete</button> <button>Download</button>
4	CSE131:Discrete Mathematics	3rd_semester	Day		<button>delete</button> <button>Download</button>

Figure 4.9: All Image Panel

4.5.9 All Video

The video links uploaded in the contribution section with their title are displayed here with their corresponding semester.



Sl. No	Subject	Semester	Student Type	Video Title	Video	action
1	CSE131:Discrete Mathematics	3rd_semester	Day	Discrete Mathematics: Foundation for Computer Science	https://www.youtube.com/embed/pk9rK-yEYFI	<button>delete</button>
2	CSE131:Discrete Mathematics	3rd_semester	Day	Discrete Mathematics - Propositional Logic & Logical Operator	https://www.youtube.com/embed/bn7dQ4zOSIU	<button>delete</button>
3	CSE131:Discrete Mathematics	3rd_semester	Day	Discrete Mathematics - More Logical Operators	https://www.youtube.com/embed/a3qD0z1FMMg	<button>delete</button>
4	CSE131:Discrete Mathematics	3rd_semester	Day	Discrete Mathematics - Logical Equivalence	https://www.youtube.com/embed/F3qlbABFPks	<button>delete</button>

Figure 4.10: All Videos Panel

4.5.10 Contribution

The most unique feature of the system is this page. Where all the students and teachers can share their collected materials with everyone.

The screenshot displays a web application interface for a 'STUDENT GUIDE'. The top navigation bar is blue with the text 'STUDENT GUIDE' and a user email 'fahamidur15-5122@diu.edu.bd'. A dark sidebar on the left contains a 'MAIN NAVIGATION' menu with items: Dashboard, All User, Subject Add, All Subject, All File, All Image, All Video, Contribution (highlighted), and a 'LABELS' section with a Logout link. The main content area is divided into two sections. The top section, titled 'File Upload', contains four dropdown menus labeled 'Semester', 'Subject', 'Student Type', and 'Qfile', each with a 'Select One' option. Below these is an orange 'Upload' button. The bottom section, titled 'Video Upload', contains the same four dropdown menus, plus two text input fields labeled 'Video Title' and 'Video' (with a 'Video Link' placeholder). It also features an orange 'Upload' button at the bottom.

Figure 4.11: Contribution Panel

4.5.11 Dashboard

The dashboard of teacher and admin is same. In case of students, the dashboard of day students will show their corresponding semesters and evening students will see their corresponding semesters.

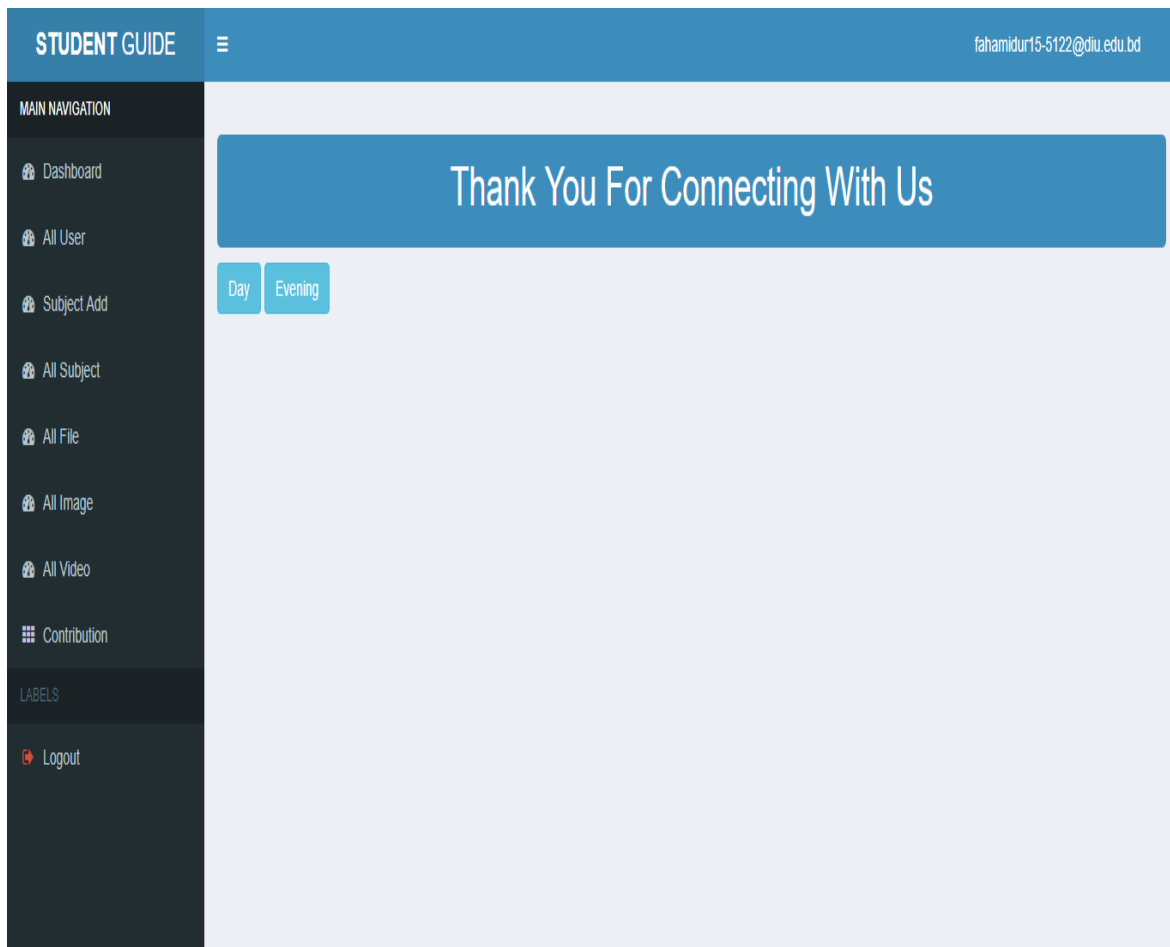


Figure 4.12: Dashboard Panel

4.5.12 Content

When a user selects a specific subject, this page is displayed. A file section, A questions section and a video section is showed at the left side. A comment section is given at the right side for user communication.

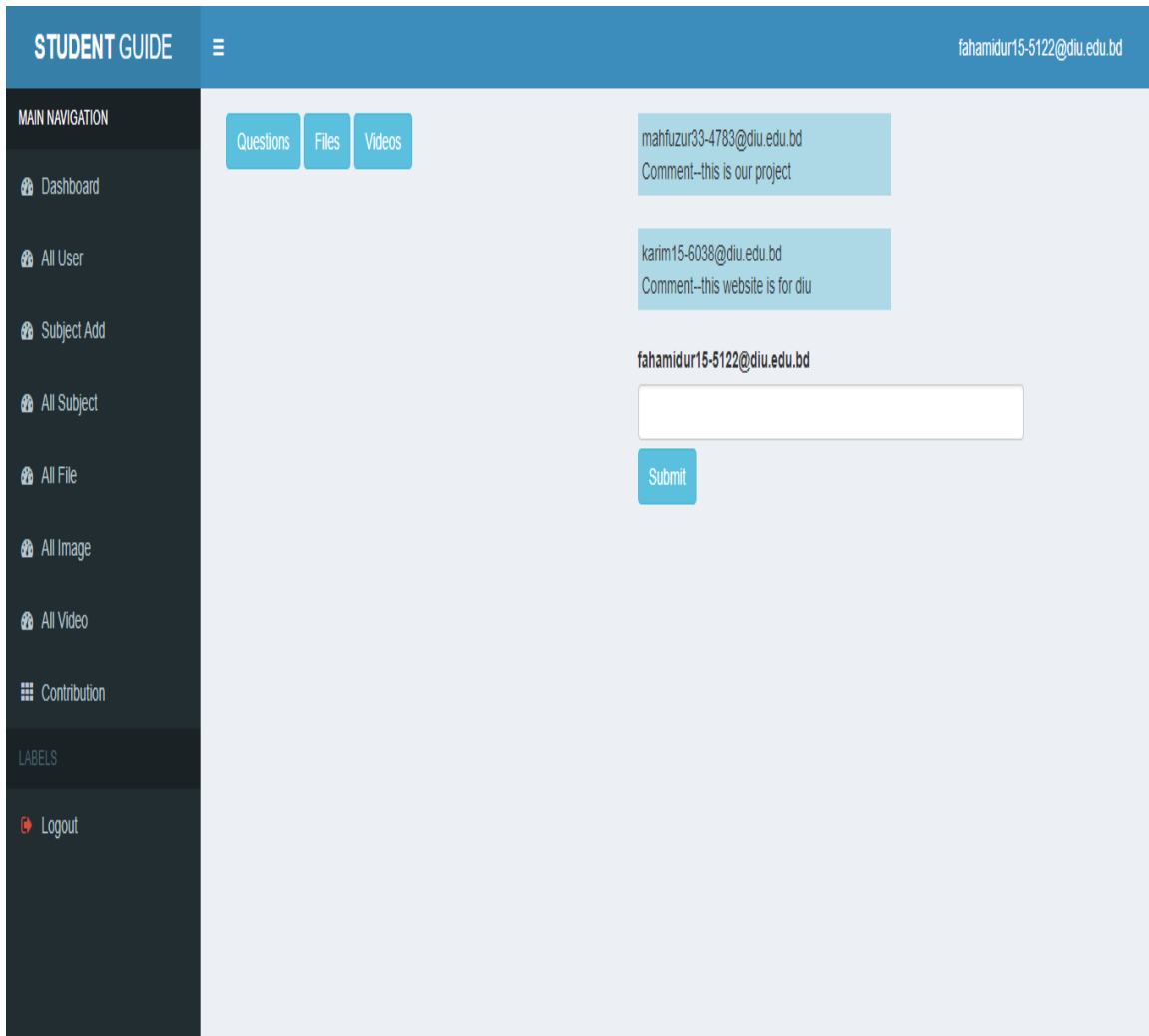


Figure 4.13: Content Panel

The questions are shown in this way.

STUDENT GUIDE		fahamidur15-5122@diu.edu.bd	
MAIN NAVIGATION			
Dashboard			
All User			
Subject Add			
All Subject			
All File			
All Image			
All Video			
Contribution			
LABELS			
Logout			





Image table		
Sl. No	Image	action
1		Download
2		Download
3		Download
4		Download

Figure 4.14: Questions Showcase Panel

Here is the file display.

STUDENT GUIDE		fahamidur15-5122@diu.edu.bd	
MAIN NAVIGATION			
Dashboard			
All User			
Subject Add			
All Subject			
All File			
All Image			
All Video			
Contribution			
LABELS			
Logout			

Files table		
Sl. No	File	action
1	file--Chap 1.1.ppt	Download
2	file--Chap 1.3.ppt	Download
3	file--Chap 1.5 - Copy.ppt	Download
4	file--chap 2.1,2.2.ppt	Download
5	file--s1.1_propositional_logic.pdf	Download
6	file--s1.2_propositional_equivalences.pdf	Download
7	file--s1.3_predicates_quantifiers.pdf	Download
8	file--s1.5_rules_inferences.pdf	Download
9	file--s2.1_sets.pdf	Download

Figure 4.15: Files Showcase Panel

The videos are shown in this format. The video links are taken from YouTube. When a video is clicked, the user will be sent to the original YouTube site, from where the video is taken.

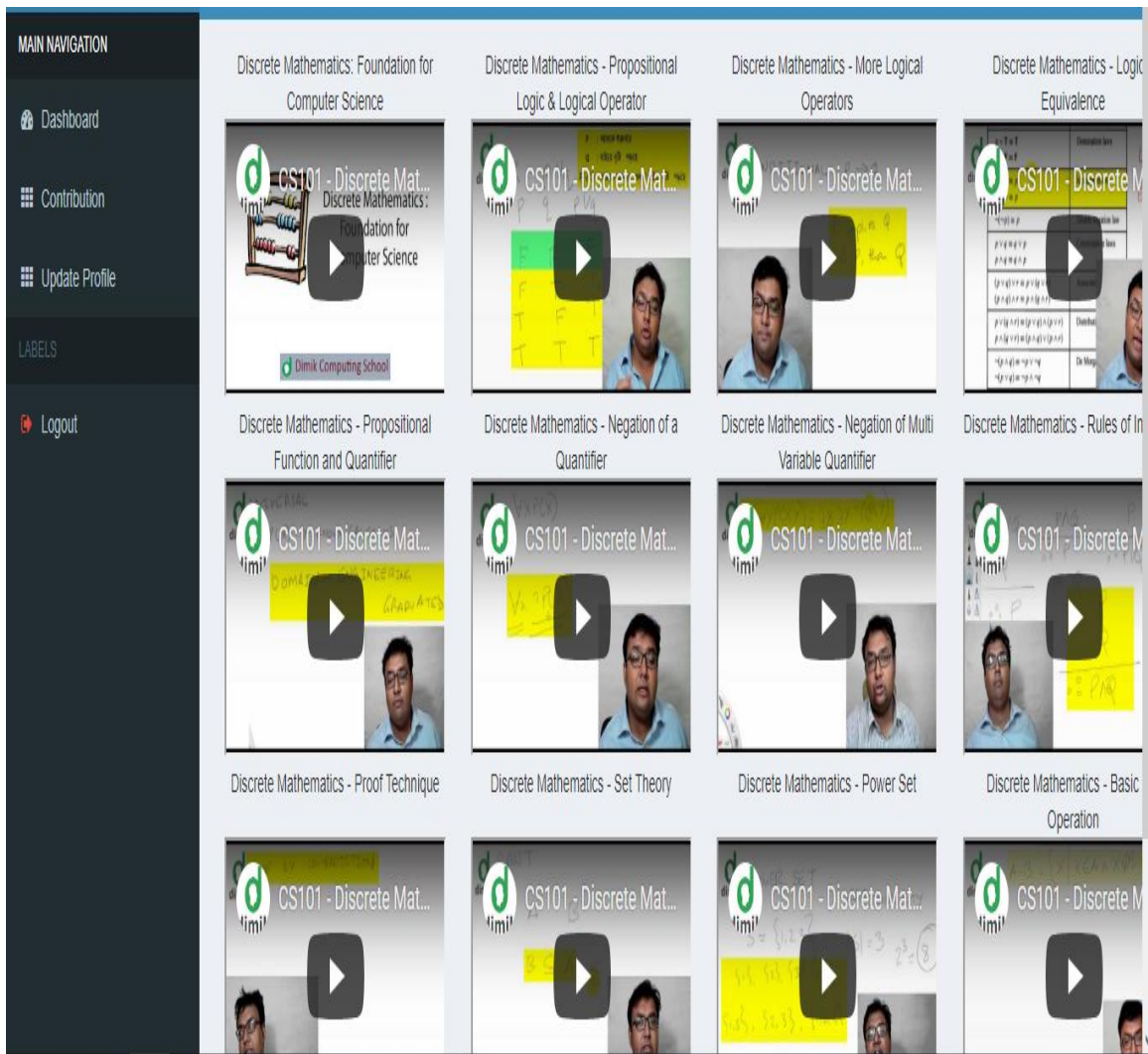


Figure 4.16: Video Showcase Panel

4.5.13 Profile Update

As we have categorized students as Day and Evening, their corresponding course material is different. Students can update their profile. Can change their type to view contents from another category.

The screenshot shows a web interface for updating a student profile. On the left is a dark sidebar with the text 'STUDENT GUIDE' at the top. Below it are two sections: 'MAIN NAVIGATION' containing 'Dashboard', 'Contribution', and 'Update Profile' (highlighted with a grid icon); and 'LABELS' containing 'Logout' (with a red exit icon). The top right of the main area shows the email 'mahfuzur33-4783@diu.edu.bd'. The main content area has a blue header 'Update your profile'. Below this, there are two form fields: 'DIU E-Mail' with the value 'mahfuzur33-4783@diu.edu.bd' and 'Student Type' with a dropdown menu showing 'Day'. A blue 'Register' button is positioned to the right of the 'Student Type' dropdown.

Figure 4.17: Profile Update Panel

CHAPTER 5

EMPLIMENTATION AND TESTING

5.1 IMPLIMENTATION OF DATABASE

The quality of a project depends on the database. It is one of the main element of our development project. In our project we have used MySQL which is a very popular DBMS. It is an open-source database management system which is the mostly used for web based system.

Database related knowledge is given shortly below.

1. Database name: st_guide.sql
2. 8 tables and each table have multiple columns.

TABLE 5.1: Tables in Databse and their Purpose

Table Name	Purpose
User-Types	Define the type of Users
Users	How many users and their types
Student_type	Define the type of student
Semester	Stores the semester of the university
Subjects	Subject under each semester with their credit is defined
Files	The files and images under each subject
Videos	The video links of each topic
Comments	Comments Under each email

5.2 IMPLEMENTATION OF FRONT-END DESIGN

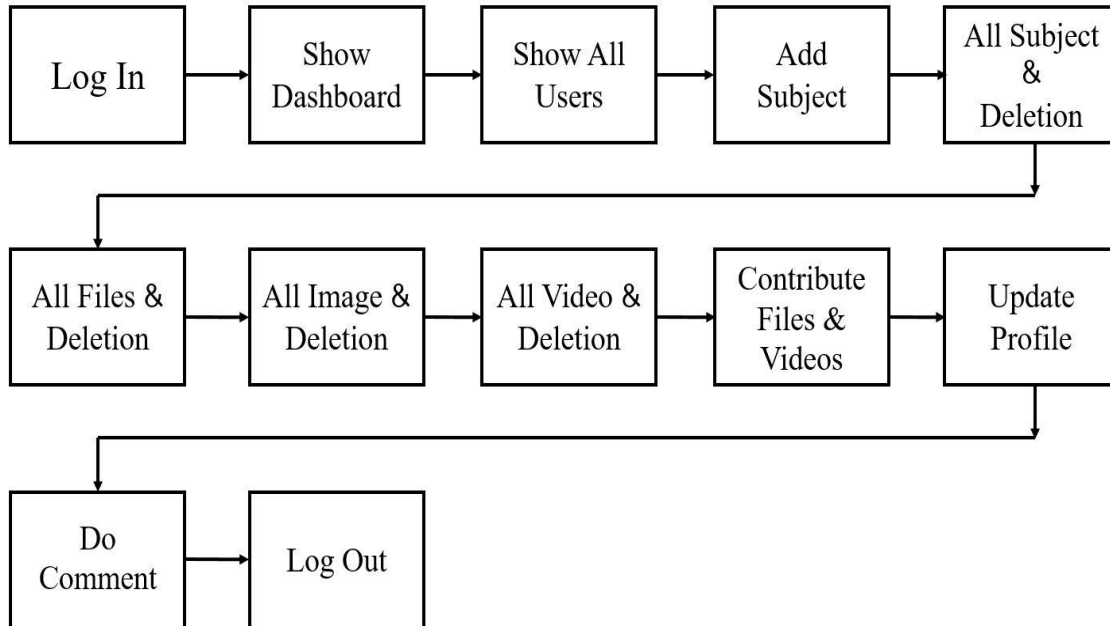


Figure. 5.1 Front end design implementation

5.3 IMPLEMENTATION OF INTERACTION

INTERACTION is a common task for developing a project implementation. Our system is a web based project so many resources and user activity is needed to interact with it. Database like MySQL is used here. The core foundation of our whole project is dependent on appropriate data. So in each interaction communication between server and client are happening effectively every time. Data fetching, downloading, uploading, editing, deleting, writing and modifying, data all are happening simultaneously.

5.4 TESTING IMPLEMENTATION

All kinds of testing of the system have done by us. That's why we are now well known about the user requirements. So we can testify that our system has been tested thoroughly with great determination.

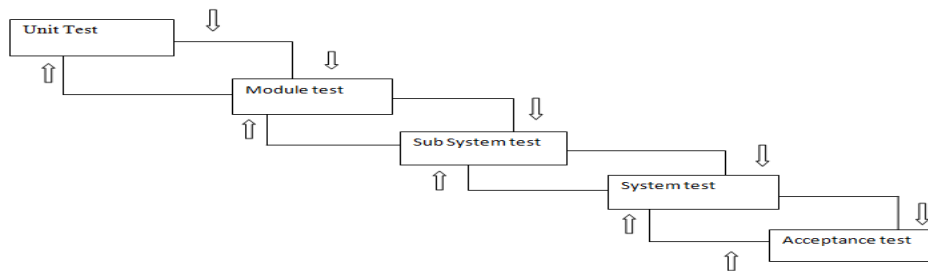


Fig. 5.2 Testing implementation

➤ UNIT TEST

Each phase and part of our system is tested carefully to make sure that the entire structure is correctly implemented. It has been ensured by us that each part of this system works as per requirement.

➤ MODULE TEST

Collection of dependent components such as an object class, object data type or some looser collection of procedures and functions.

➤ SUB-SYSTEM TEST

Testing collection of modules which have been integrated into sub systems is involved in this phase.

➤ **SYSTEM TEST**

In the prior installation period, system test is done by us and it has been seen that this system works as our expectation.

➤ **USABILITY TEST**

The users have done the usability test. These verified this system gives exact output as expected by them.

5.5 TEST RESULT AND REPORTS

Our whole system is tested throughly by us and some other external users. Every result is so satisfactory. All the student can register and login successfully as well as teacher and the admin. Though some glitch is also present. Their user experience is so peaceful. No problems are founded while fetching any kind of materials. Uploading mechanism is working swiftly.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 DISCUSSION

Our aims and objectives that we have set will be fulfilled by our system in a very efficient and productive way. “DIU Student Guide” is an innovation to solve and help the existing study problems of our students. It is our belief that the students of CSE department of DIU will receive our system with great excitement. Front-end and Back-end development increases the benchmark of the quality of this project. Collecting qualitative and mass amount of slides, good videos, other tools and keeping the whole system update is one of the main challenges.

6.2 CONCLUSION

Now there are some features, we are keen to add in the system which will be greatly productive for all the students. It will be an approach from us to make the system more modern and productive.

- ❖ Introducing online lectures for the students where the lecturers of our university can give online live lecture to the students.
- ❖ This system is now only applicable for CSE students. We are working to add all the major departments in our system to make it usable for all the students.
- ❖ Review will be opened as soon as possible where the students can review all the tools according to his/her satisfaction level. It will help us to improve the quality of the Supplements.

- ❖ We want our students to work for the improvement of the system to gather experience about working environment.

At the end of this segment we want to give thanks to Almighty Allah. We are so grateful to our Supervisor who supported us a lot throughout this whole process. We would like to thank our other teachers and well-wishers who have supported us.

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PLAGIARISM REPORT

DIU Student Guide

by Tanvir Siddiquee

Submission date: 15-Apr-2019 10:55AM (UTC+0600)

Submission ID: 1112621982

File name: DIU-Student-Guide_final.docx (2.36M)

Word count: 4333

Character count: 24234

DIU Student Guide

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