

**DESIGN AND DEVELOPMENT OF AN ONLINE LEARNING MANAGEMENT
SYSTEM**

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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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DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

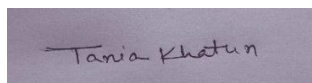
This Project titled “**Design and Development of an online Learning Management System**”, submitted by Mehedi Hasan Danee and Abdullah Al Mamun to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the 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 date : 04.01.2022

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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Dr. Sheak Rashed Haider Noori, Associate professor & Associate Head, 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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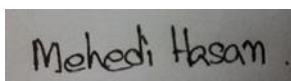
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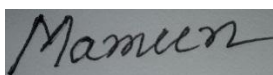


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ABSTRACT

Any developing country, such as Bangladesh, relies heavily on skilled labor. Their input has the potential to affect the development process. E-learning is a type of learning in which instructional materials are provided for free or at a cheap cost. To reach our goal of resolving our country's unemployment issue, we designed a web application based on e-learning. Our country's enormous population of people who are unprepared to handle the challenges of the 21st century. Through our online application, we can convert this weakness into a strength by requiring learners to demonstrate creativity, teamwork, communication and critical thinking skills. Our online application allows users to acquire high quality education & prepare for future problems by providing them with vital course materials. Everyone should take advantage of the opportunity to develop their profession & country. In an e-learning system, the instructor is extremely important. Following is the instructor.

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CHAPTER 1

INTRODUCTION

1.1 Introduction:

This project is designed for knowledge seekers in Bangladesh who want to learn through an online platform. Users of this application can learn through quizzes & course materials according to their interest. The creation of relevant courses is based on qualified experienced instructors.

1.2 Motivations:

Many students in Bangladesh fail to pass their SSC, HSC, Vocational Education and Diploma engineering examination in every year. There are many reasons of this. Specific of which is the distance between teachers & students, loss of communication between teachers & parents. As the COVID-19 virus continues to pose a threat to everyone, the world is in disarray. Schools throughout the world have been temporarily shuttered to safeguard pupils, teachers & staff from disease. According to UNESCO research, the pandemic has touched over almost 1.4 billion of student in 145 countries. Students can continue their education, due to the advent of online learning during the COVID-19 pandemic. Colleges, schools & universities are moving away from the four walls of their classrooms & embracing the digital environment. As a result, during the current COVID 19 pandemic crisis, eLearning or distance learning and learning management systems (LMS) has rises priority in the top education sector.

1.3 Objectives:

- a) Online classrooms working as a video conferences provide team collaboration & direct learning with a tutor.
- b) Games & simulation contribute to the experiential learning by imitating the real life problems. It also helps learners to stay engaged.
- c) Strengthen the relationship between students and teachers.

- d) Integrating quizzes into the course content and offering mid course grading, student's progress may be better tracked.
- e) Creating relationships between parents & teachers.

1.4 Expected Out Come:

- a) Professional teaching Community.
- b) Our project especially created for teacher and job students. Easy way to find various kind of question solutions.
- c) Teacher will be able to communicate directly with the students and give solution through online.
- d) Students will be able to see the teacher's profile without calling and massaging them.
- e) Teacher will be able to update their profile, provide previous kind of questions solutions and many other information for finding appropriate questions.
- f) This application saves time for the student as well as teaching and all teaching staffs.

CHAPTER 2

BACKGROUND

2.1 Introduction:

Nowadays, E-Learning becomes one of the most popular and effective way of learning from almost every aspect. Completing a course for enhancing skills is needed, but at the era of the internet, going physically to do the course is not effective. A good number of manpower of Bangladesh is our investment for the future. They are the resource. But that resource will not work if they are not with proper skill, creativity, collaborative, critical thinking ability, communication skill. To solve this problem and use the manpower, we have developed a web application where using internet learners can be skilled to take future challenges.

Our web application has 3 types users:

- ☐ Admin
- ☐ Teacher
- ☐ Student

Anyone using the internet can browse our web application, can check categories, course information, instructors full profile including skills, qualification, experience. When a visitor will decide to enroll a course, he must be register and logged in. After enrolling course logged in users can access video content, justify their knowledge by several quizzes. Courses, course materials and quizzes are created by instructors to evaluate learners. Both of user and instructor can create, update, delete information, skills from their profile and an admin has access all things. Admin can manage user profile who are actually learners here and instructor profile. Admin can create and manage quizz contest, seminar, workshop which is needed for spread knowledge and activity.

2.2 Related Works:

In terms of E-Learning platform there is fewer effective developed platform in Bangladesh. Brainery e-Learning BD, 10 Minute School, Repto Education Center, Amar iSchool, eShikhon etc. are the well-known e-Learning platform from Bangladesh.

Functionality of these platforms are different ensure education from e-Learning platform.

But there is lacking of professional courses and contents which is a disadvantage. We want to solve the problem by creating skilled, creative manpower to take challenge of 21st century.

2.3 Comparative Studies:

Purpose:

In worldwide, there have many E-Learning based web application. But in Bangladesh, fewer E-Learning based application those courses are not also free. For this purpose, we have developed this project that anyone can registered as user and instructor, and logged user enroll course for free and instructor add course successfully.

Approach:

In this project two actors are user and instructor. User can be helpful learn from course and instructor can spread their knowledge through course materials.

Originality:

The project is more useful for instructor and student who learn from different categorized courses. Anyone can get facilities by using this application.

2.4 Challenges:

We have experienced numerous issues while finishing the venture. We attempt our best to defeat from those issues. So initially we figure what we can include this undertaking. For this venture we need to figure out how to make highlights and utilize that in our undertaking. I have seen many learning management systems (LMS) online that usually deal with academic activities in the backyard but no work is done for communication builders between students and teachers or between guardians and teachers.

So we took up the challenge of creating an "**Educom - Learning Management Systems**" with this idea.

CHAPTER 3

SPECIFICATION OF THE REQUIREMENT

3.1 Business-Process Modeling (BPM):

Business-process modeling (BPM) is shown & created in diagram.

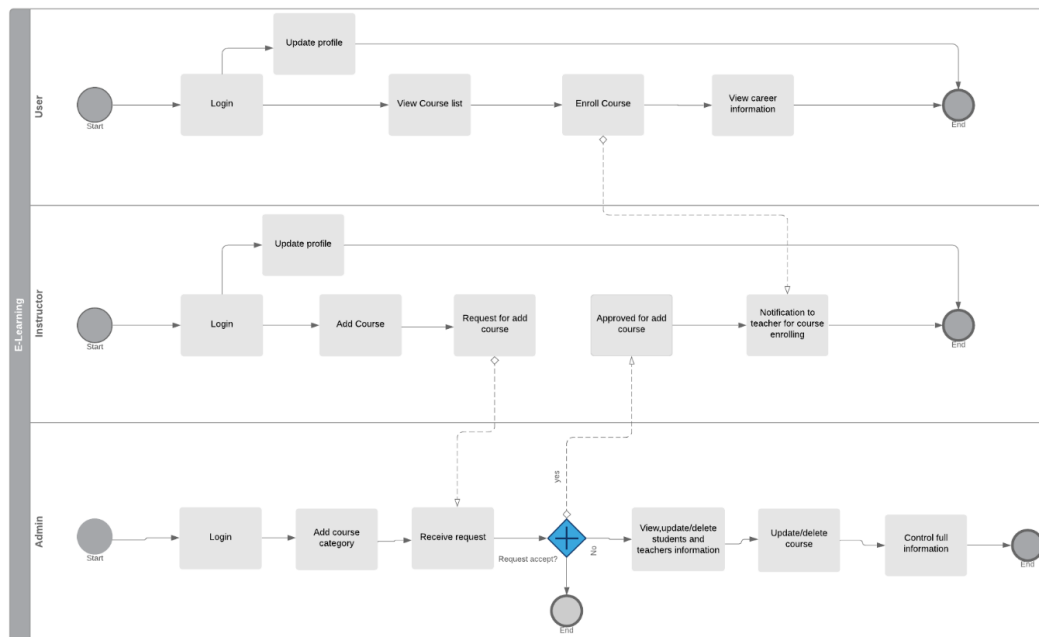


Figure 3.1.1: Business Process Model.

3.2 Requirements-Collection & Analyzing:

Requirements collection plays a key role and requirement analysis sets the base of web application development or software development. Requirement analysis is categorized and can be functional, implementation and performance. In this system, we have worked requirement analysis for software and hardware.

3.2.1 User Requirement:

In this system user can be anyone. User can view course list and instructor profile without login in this system. If user wants to enroll any course or give quiz then need to sign up and after signup they need to login. After enrolling the course user can view course material. User can also see jobs depending on their career interest.

List of the key Requirement:

- a) Enroll course
- b) View course material function
- c) Quiz functionality
- d) Review course functionality
- e) View career information
- f) Assignment functionality
- g) Communication in Teacher

3.2.2 Instructor Requirement:

Instructor can add course material in selected categorical course. But at first, he must login. Instructor can add own profile information and skills. Course materials are shown in course section.

List of the key Requirement:

- a) Add course functionality
- b) View user information
- c) View course functionality

3.2.3 Admin Requirement:

The Admin is that main role of this system. Admin can control the whole system. At first, Admin will login in the system. Admin can add course category from admin panel. Admin can manage instructor and user list. Admin set event date and time.

List the key Requirement:

- a) Enroll course
- b) View course material function
- c) Quiz functionality
- d) Review course functionality
- e) View career information
- f) Assignment functionality
- g) Communication in Teacher & Student

3.2.4 Hardware and Software Requirements:

If anyone access to our application here is the minimum hardware and software requirement.

3.2.4.1 Hardware Requirements:

- Processor: any latest model processor (Intel or AMD)
- Ram: 512mb or above
- Hard disk: 15 GB or above
- Input device: mouse or keyboard
- Monitor: Any monitor
- Internet Connection: Broadband connection or Mobile Network.

3.2.4.2 Software Requirements:

- Editor: notepad++, visual studio code
- Browser: Google chrome, Firefox etc.
- Operating system: windows 7 & 10

3.2.4.3 Supported Browser:

- Google Chrome
- Mozilla Firefox,
- Brave
- MS Edge

3.3 User Cases Description & Modeling:

A use cases model interacts several type of users with this system to solved an issue. There are three types of user in our project. We have designed use case model for user, admin and instructor. Here is our use case model and description.

3.3.1 User Cases Model for User or Student:

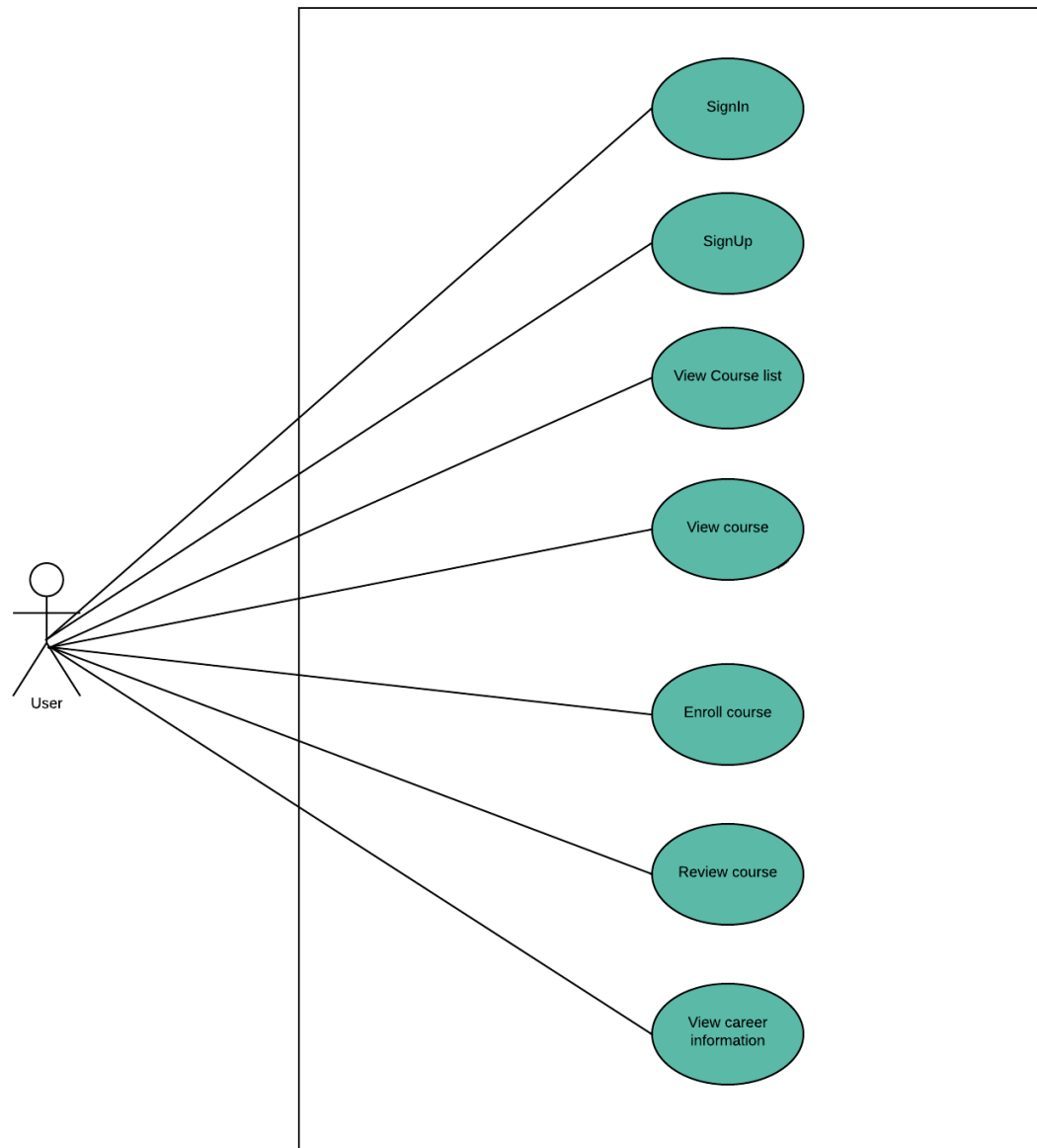


Figure 3.3.1: Use Cases Model for User

3.3.2 User Cases Model for Admin:

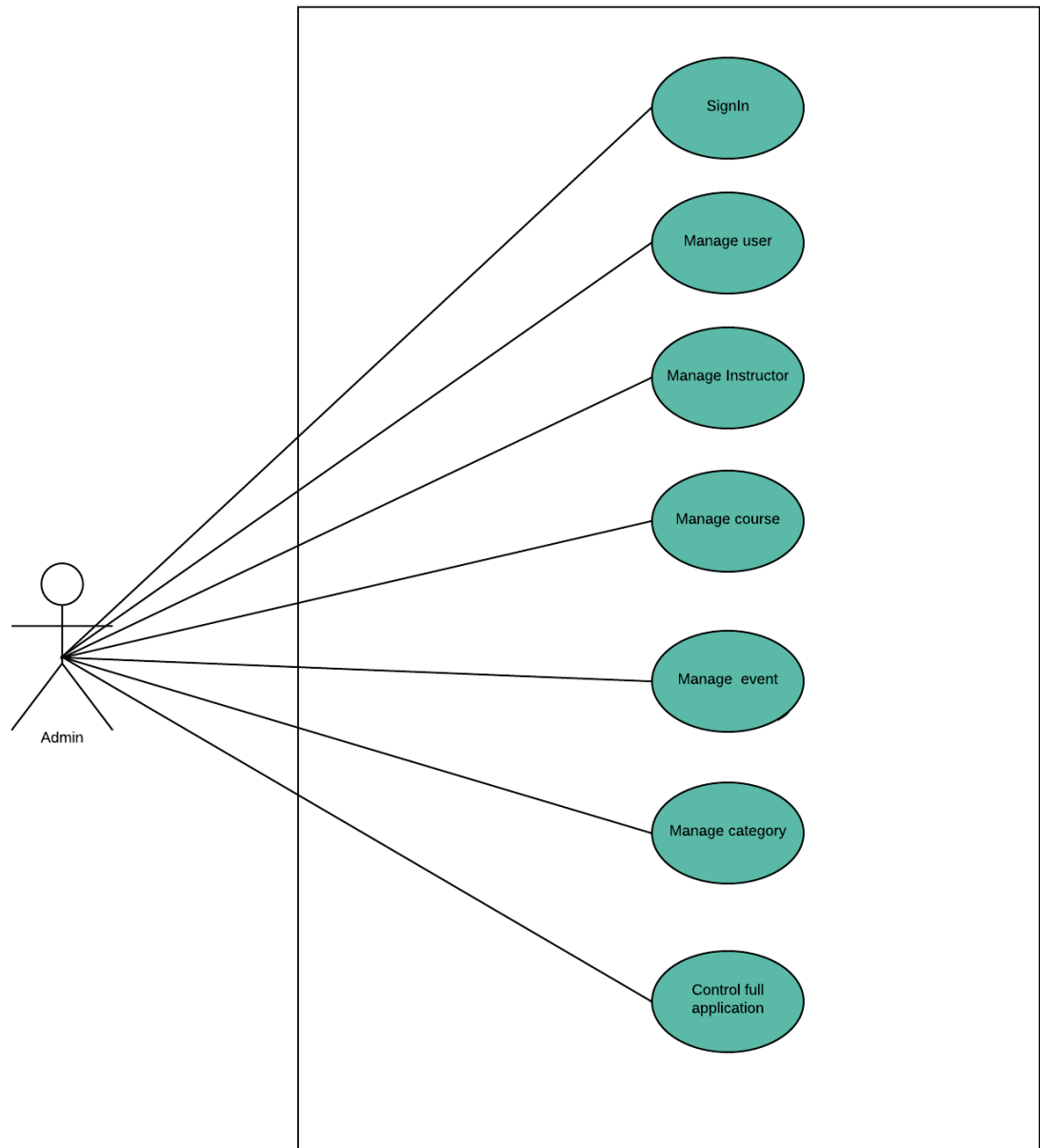


Figure 3.3.2: Use Cases Model for Admin

3.3.3 User Cases Model for Teacher:

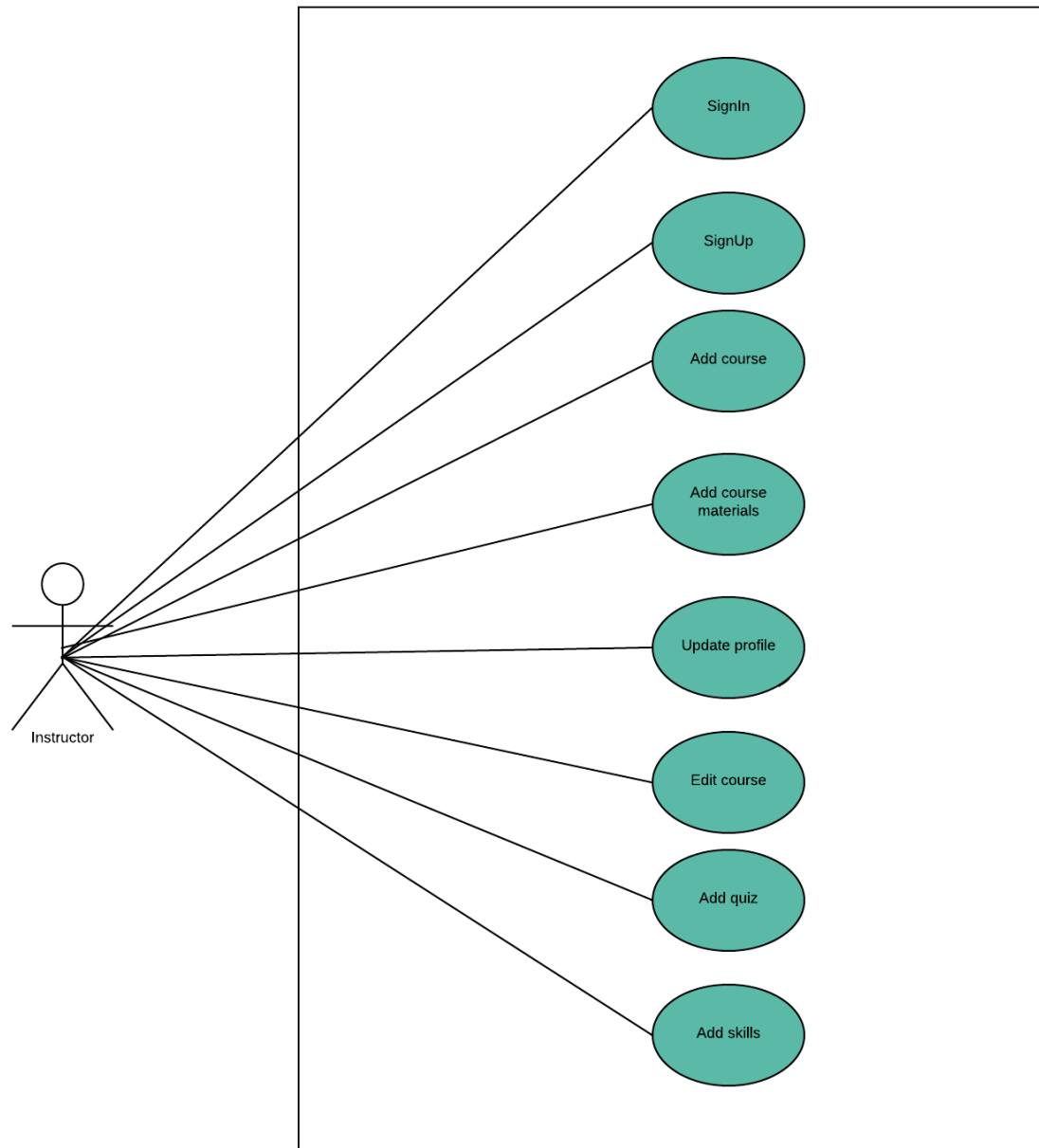


Figure 3.3.3: Use Cases Model in Teacher

3.4 Design Requirements:

In our project, we have implemented front end & back end design. The Design requirement is the functional requirement. Firstly, we have implemented front-end design that how looks our application. For front-end design we need some programming language and markup language. We have used HTML, CSS, JavaScript and some libraries for font-end design. Backend design is the main part for developing a web application. Back-end design is functional that how interacts it with user. For back-end design, we have used PHP. We also need a computer for design this web application.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front - End Development:

We have completed front - end development of our project by markup language, style sheet language, some programming language and some libraries.

- HTML
- CSS
- Bootstrap
- JavaScript
- jQuery

4.1.1 HTML:

Html is not a programming language. It's mainly used for building structure of any website, webpage or software [4]. Html is written in the form of HTML elements consisting of tags enclosed in angle brackets like `<html>`. When we run a html tags in web browser there will view some structure not html tags. Html tags consist of pair one is known as starting tag and another is closing tag example : `<p><p/>`, `<table><table/>`. Sometime we use extra tags that have only starting tag not have ending tag `<image>`, `<img>`. In this case web browser is used for read html tag and show output. It can embed scripts written in languages such like JavaScript which affect the behavior of HTML web site. There are two type of element one is semantic and another is non-semantic element. For any web developer must follow some website, in them most popular w3school, stack learner and so many. This type of website is also useful for beginner web developer. Main use of html tag is building structure. There are available special tag for building structure of any website or web page, table tag, it's commonly used for make a structure. Here `<table><table/>` tag is used for table row. Another tag `<td><td/>` is used for table data or table column. Div. is another tag `<div><div/>` is used for divide a website in many part its can increases the beauty of any website. Section `<section><section/>` is most interesting part for building a structure of any website. Link is another tag used for linking with many other file to html file. It's a

single tag. If you miss to link one file with another file total project can't show properly. This link tag <link> always use in head tag. If you use link tag except head tag code won't be run.

4.1.2 CSS:

Cascading style sheet is a language that use for better showing the view the stricture of any website or webpage. Css is used for design the view of html block stricture include the screen size of different device like mobile, tab, laptop, desktop, and so many others. Css has three property one is for starting that is one dotted than use selector name last use second bracket. In second bracket commonly use two property first is property and second is the value of this property. There are many property used in Css. Some property is used for making animation. Maximum time we face for providing style properly with Css. Bootstrap is another framework that make easier to do design a website. There are many custom property in bootstrap. If you want to use bootstrap just you need to go bootstrap site and click getting bootstrap secondly you need to link the bootstrap to your html file. There available many complex property that you needn't to write all code. But sometime for your comfortably you need to costume some property for deserve view. Include them navigation bar, card, carousal, slider, button, dropdown menu, snappers and so many.

4.1.3 JavaScript:

JavaScript is one of most popular programming language in the world. This language is mostly use for any type of software building [6]. This programming language is used also in website design and development. Its play role in both front-end and back-end. In front-end JavaScript used for doing some particular part example picture slider, image, pop-up menu, site navigation bar, tab and other rich UI components and other all possible. Suppose u need to select a check box than you will get a notification its do only JavaScript. In carousel image slider many image change within a particular time its properly control JavaScript. Sometime we fill-up many form there are available many field like name, age, gander, date of birth, year, mobile number, national id number, birth certificate number and so many other. This type of form has many field

some field is mandatory and some field is optional, now if you don't fill-up mandatory field you won't be able to submit the form. You will get a notification that some field are missing, in this case notification is generated by JavaScript part of this website. JavaScript is prototype scripting language that is dynamic weakly type has first class function. JavaScript use the syntax of programming language C. JavaScript copies many name and naming conversion from java, but both programming language are different. JavaScript is multi-paradigm programming language support object-oriented, imperative, functional styles and so many other. For building website JavaScript use both part front-end and back-end. Node.js is a JavaScript backend programming language. Node.js is increased the popularity of server side web-application. JavaScript is a client-side scripting language

That was formalized in the ECMA Script language standard (as part of a web browser). This allows access to computational objects in a host environment through programmatic means.

4.1.4 Bootstrap:

Bootstrap is a free front - end web development framework for creating responsive web pages. Bootstrap is developed with HTML and CSS. We have used this framework in our project.

4.2 Back - End Development:

Back - end development of this project was completed by some programming languages and framework.

- PHP
- MySQL

4.2.1 PHP:

Hypertext preprocessor (PHP) is world most popular language for building web page or website. Mainly this programming language is used for backend part of a website [1]. Php is commonly free for use and download. On the server, PHP scripts are run.

For word press php is commonly used and stronger. Better example for running world

largest social media Facebook php is enough. It's fascinating for first-time server managers. In server side php is commonly used in many part example php is used for insert, delete, update, clear data from database. Php helps for collecting data from data server. This programming language play a vital role such as control user access, send and receive cookies. By using php language you can generate a dynamic web page also it can do create, open, read, write, delete and close file on the server. Php programming language can be used for encrypt data. Php is not only limited to output html file but also by using php language you can create output many other file like pdf, image, xml etc. Now you can have a question there are available many other language but why php programming language. The answer of this question is php runs on virtual platform like (windows, Linux, Ubuntu, mac os etc.). Now php is compatible with all database like apache, IIS etc. PHP can work with a variety of databases. This programming language is easy to learn and run efficiently. This programming language have many other advantage such as it's a independent platform. Php based application can run any type of os like windows, Linux, mac os etc. php based application can easily be loaded and connect to server. Php programming language mainly used due to its faster rate of loading over slow internet and speed than other programming language.

4.2.2 MySQL

MySQL is most popular used database management system. It's an open source license free database [3]. It's commonly used in web application world widely. MySQL is the database construct that enables PHP and Apache to work together to access and display data in a readable format to a browser. MySQL is structured query language Sarver design for highly load and provide critical query. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned but Oracle Corporation. Data warehousing, e-commerce, and logging applications are only a few of the uses for the technology.

4.3 Interactive Design

Interactive Design is the interaction between system and user by its interface. Here are some dimensions of interaction. Such as, Text, physical objects and animation. In our

project what we have seen like text that's are all text dimension. Mobile, computer are physical objects that interact between system and user.

CHAPTER 5

IMPLEMENTATION OF WEB DESIGN

5.1 Front-end Design Implementation:

Designing a website or a web application requires some rules. Front-end design created the 'Html', 'CSS' & 'JavaScript' code that makes up a user interface. It is a graphical interface for user to view and interface. Here, We have implemented front-end design for this web project.

5.1.1 Home Page:

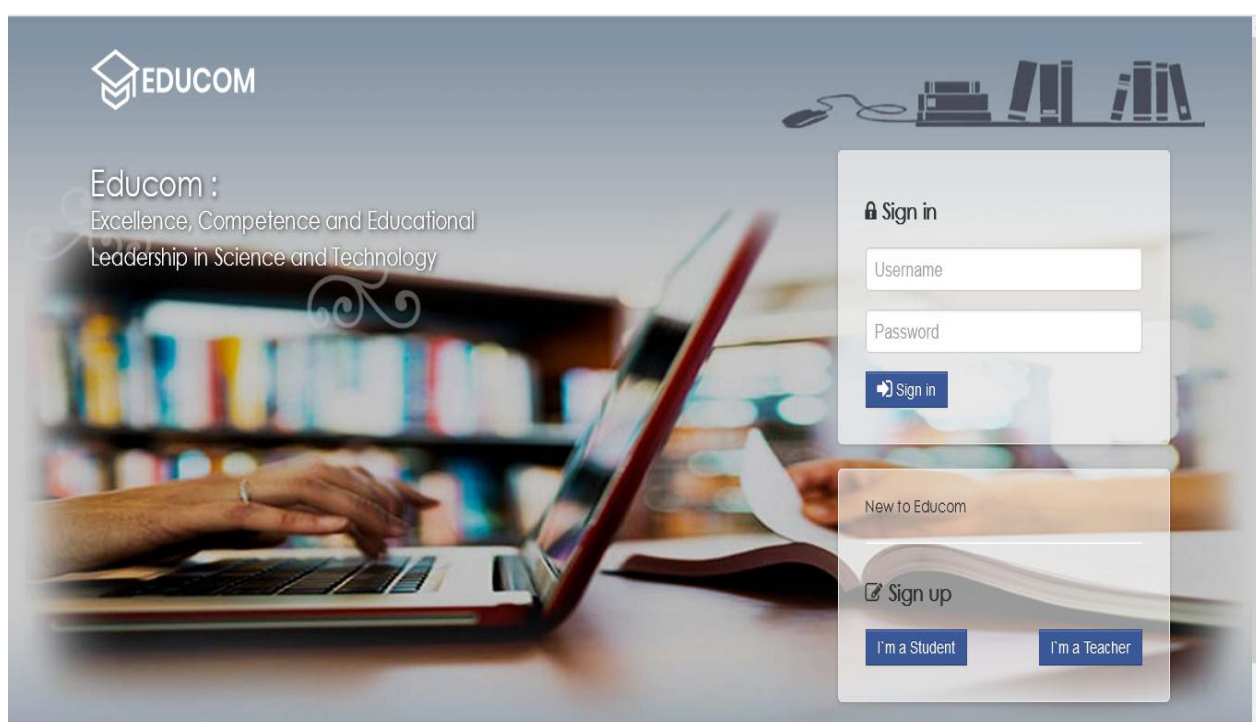
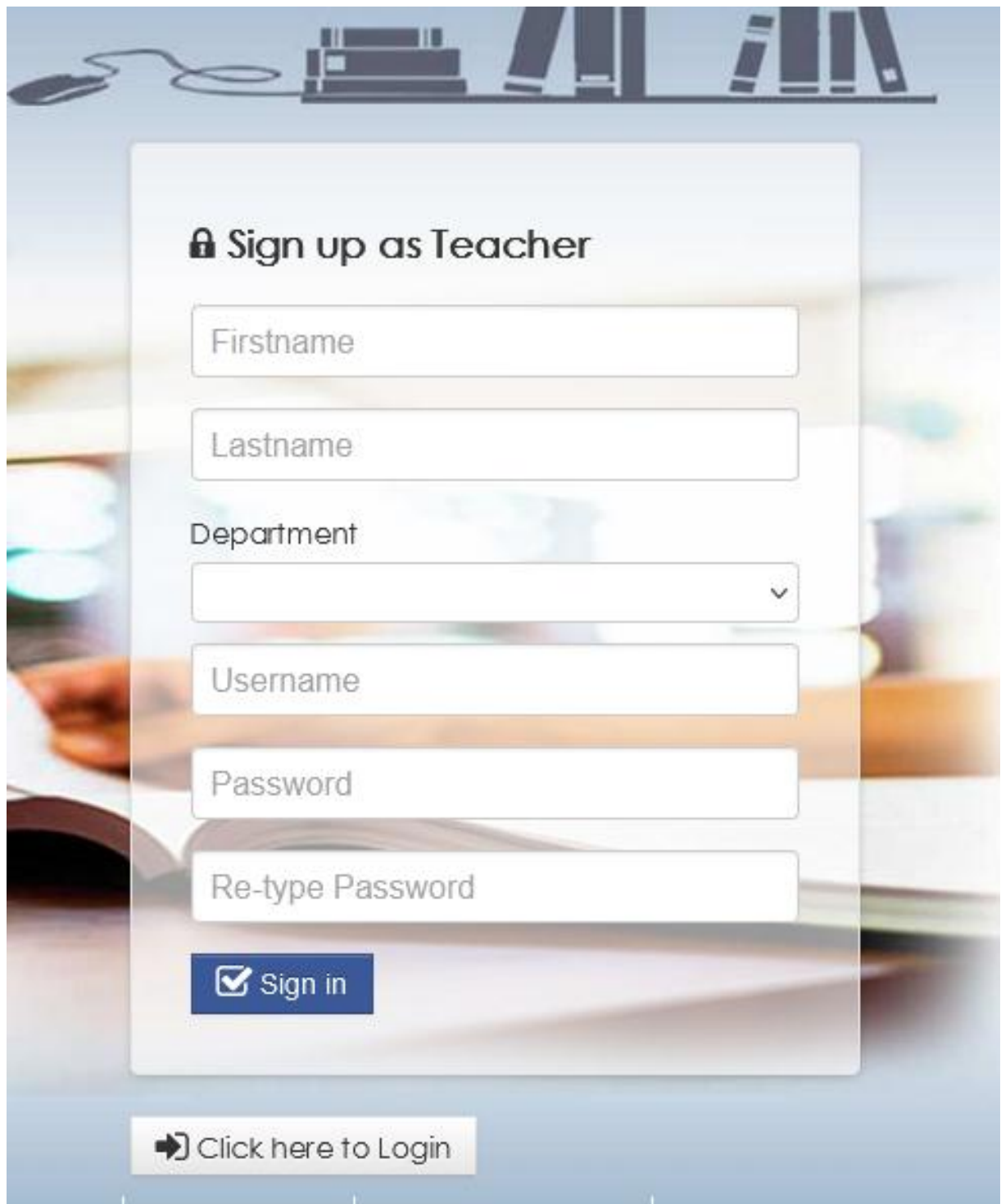


Figure 5.1.1 - Home page

5.1.2 Sign up page for Teacher:

The image shows a web form titled "Sign up as Teacher" with a lock icon. The form is set against a background of a desk with a computer mouse, books, and a lamp. The form fields are: Firstname, Lastname, Department (a dropdown menu), Username, Password, and Re-type Password. Below the fields is a blue button with a checkmark icon and the text "Sign in". At the bottom of the form is a button with a right-pointing arrow icon and the text "Click here to Login".

 **Sign up as Teacher**

Firstname

Lastname

Department

Username

Password

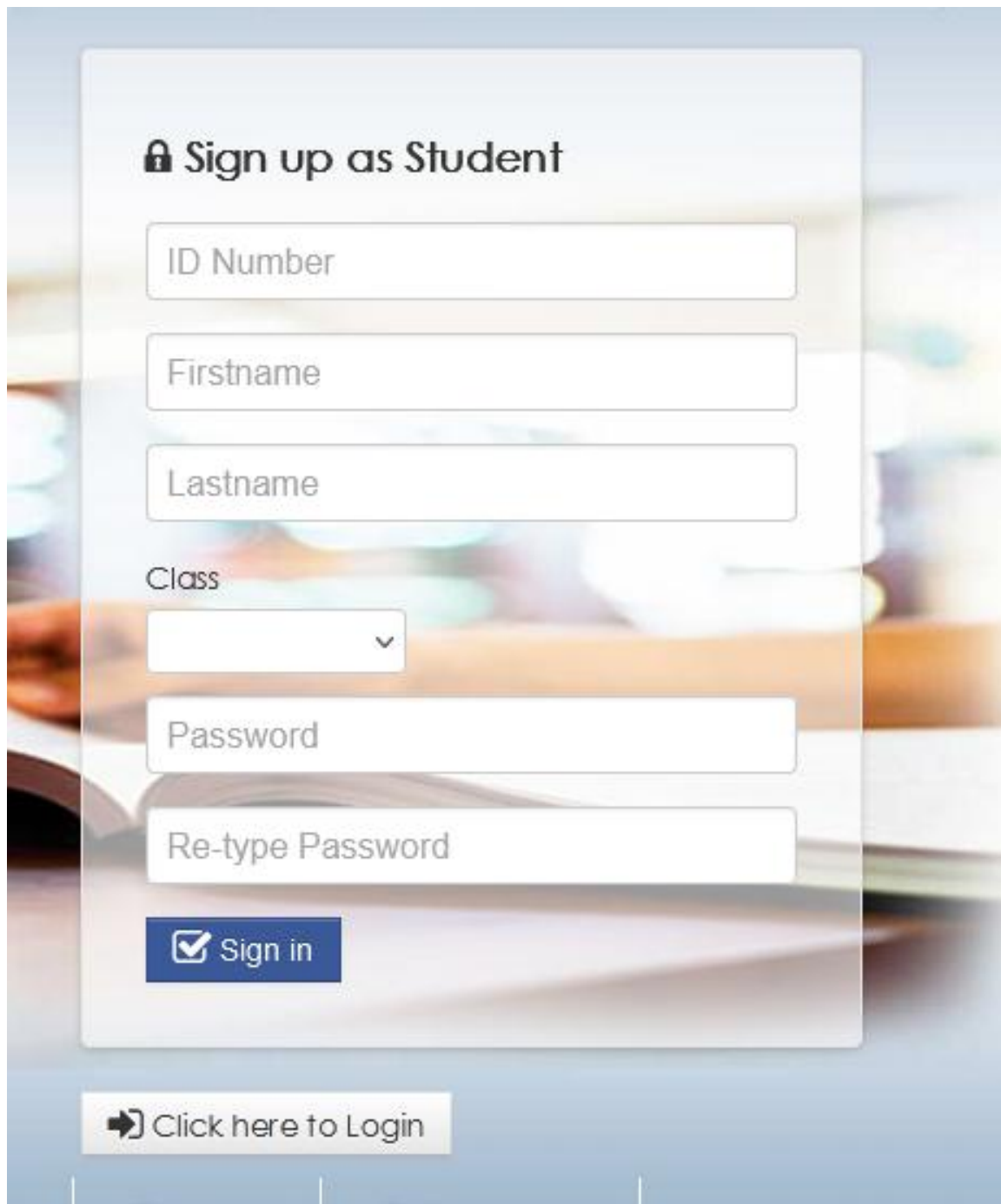
Re-type Password

 **Sign in**

 **Click here to Login**

Figure 5.1.2 - Sign up page for Teacher

5.1.3 Sign up page for Student:



The image shows a web form titled "Sign up as Student" with a lock icon. The form is set against a background of books. It contains several input fields: "ID Number", "Firstname", "Lastname", a "Class" dropdown menu, "Password", and "Re-type Password". Below these fields is a blue "Sign in" button with a checkmark icon. At the bottom of the form area is a button with a right-pointing arrow and the text "Click here to Login".

Sign up as Student

ID Number

Firstname

Lastname

Class

Password

Re-type Password

☒ Sign in

[Click here to Login](#)

Figure 5.1.3 - Sign up Page for Student

5.1.4 Log in page for Admin:

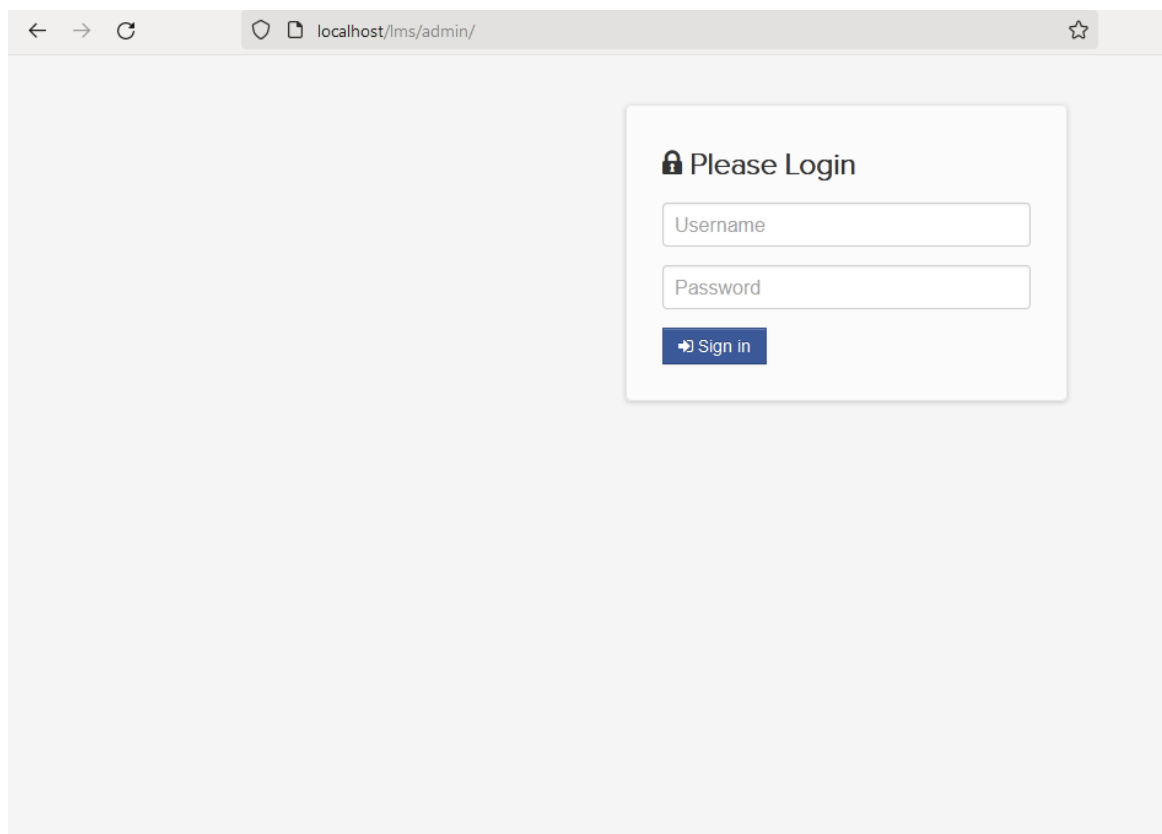


Figure 5.1.4 - Log in page for Admin

5.1.5 Admin Dashboard:

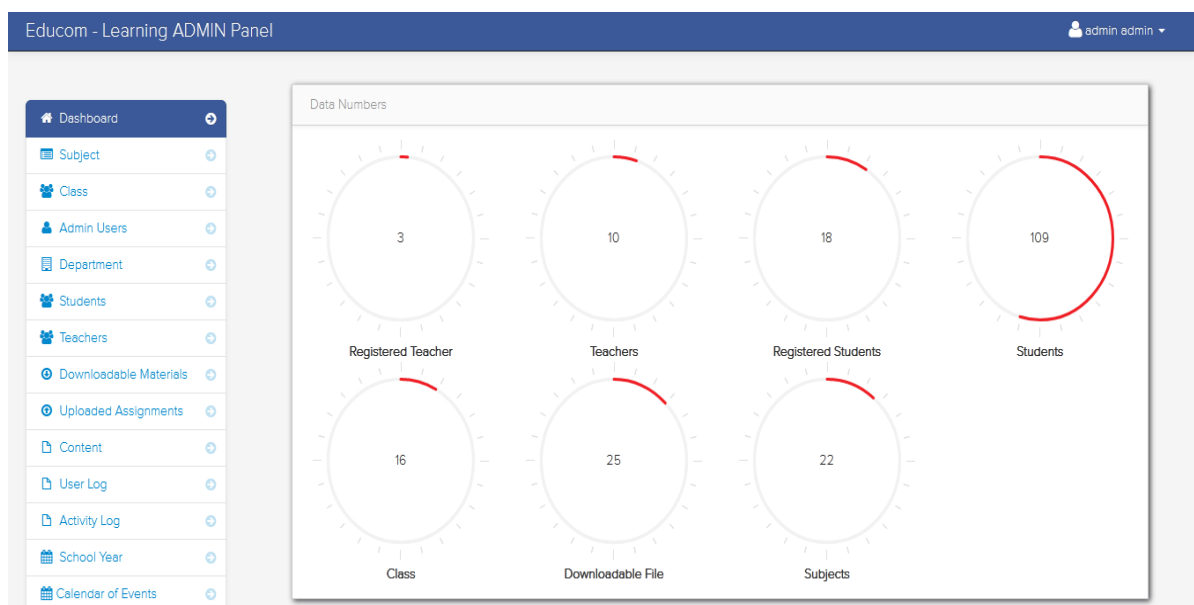


Figure 5.1.5 - Admin dashboard

5.1.6 Add subject for Admin:

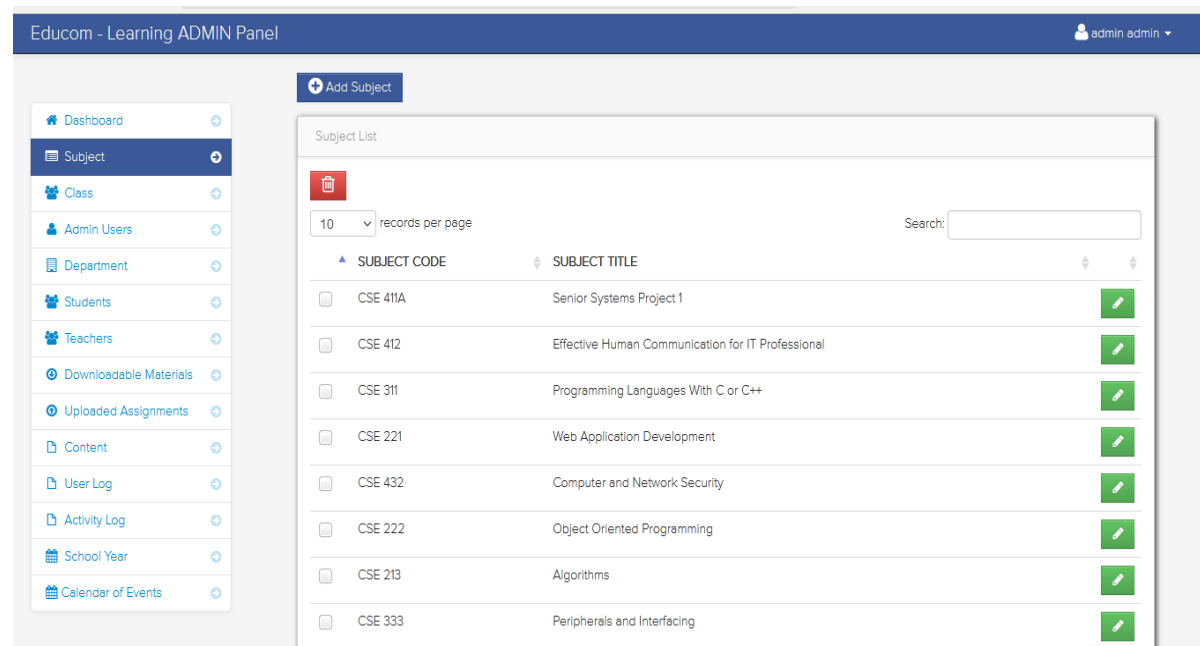


Figure 5.1.6 - Add subject for Admin

5.1.7 Add Department for Admin:

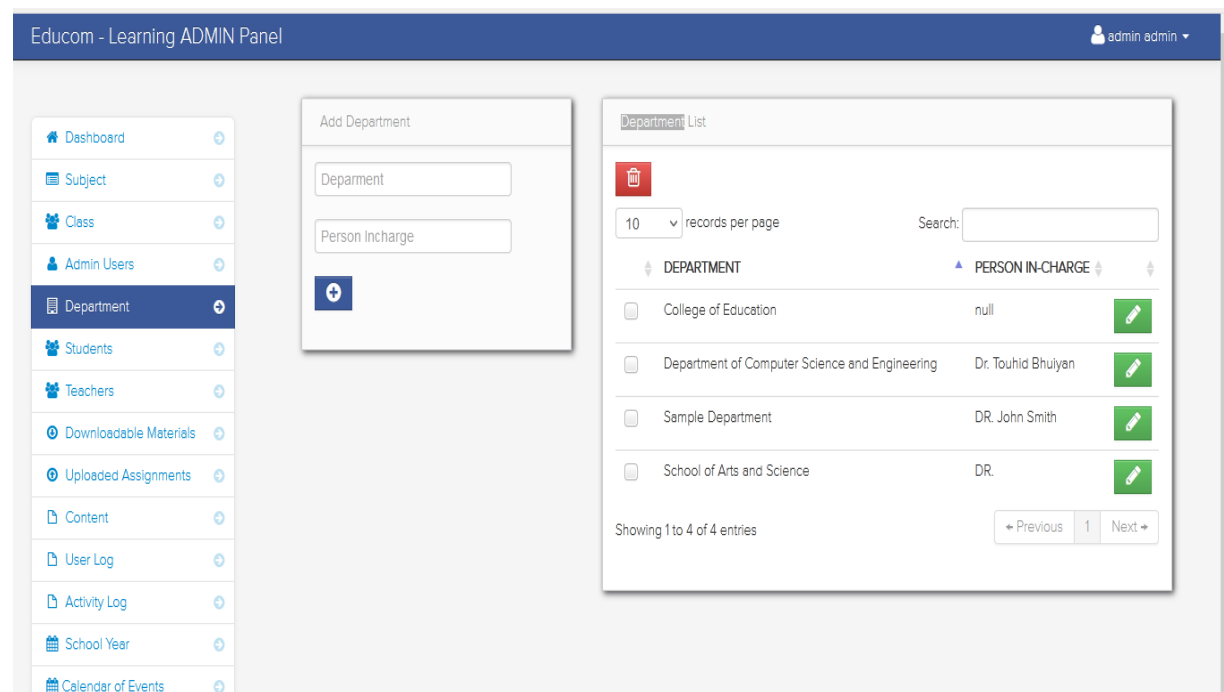


Figure 5.1.7 - Add Department for Admin

5.1.8 User Log List for Admin:

Educom - Learning ADMIN Panel admin admin

- Dashboard
- Subject
- Class
- Admin Users
- Department
- Students
- Teachers
- Downloadable Materials
- Uploaded Assignments
- Content
- User Log**
- Activity Log
- School Year
- Calendar of Events

Users Log List

10 records per page Search:

DATE LOGIN	DATE LOGOUT	USERNAME
2021-11-06 14:11:16		admin
2021-11-06 16:04:29		admin
2021-11-06 17:53:14		admin
2021-11-06 17:58:50		admin
2021-11-06 18:11:42		admin
2021-11-06 18:15:59		admin
2021-11-06 18:39:15		admin
2021-11-06 19:47:43		admin
2021-11-07 10:41:12		admin
2021-11-20 19:45:10		admin

Showing 91 to 100 of 101 entries

Previous 7 8 9 10 11 Next

Figure 5.1.8 - User login List for Admin

5.1.9 Add Calendar for Admin:

Educom - Learning ADMIN Panel admin admin

- Dashboard
- Subject
- Class
- Admin Users
- Department
- Students
- Teachers
- Downloadable Materials
- Uploaded Assignments
- Content
- User Log
- Activity Log
- School Year
- Calendar of Events**

Calendar

November 2021 month week day

SUN	MON	TUE	WED	THU	FRI	SAT
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

All Subject Class Test 2 (CT 2)

Add Event

Date Start
Date End
Title
Save

EVENT	DATE	
Orientation with the New Student	08/31/2021 To 08/31/2021	X
Start of Classes	09/01/2021 To 09/05/2021	X
All Subject Class Test 1 (CT 1)	10/20/2021 To 10/25/2021	X
All Subject Class Test 2 (CT 2)	11/13/2021 To 11/17/2021	X
Final Exam	12/18/2021 To	X

Figure 5.1.9 - Add Calendar for Admin

5.1.10 Teacher Dashboard:

Welcome to : Educom - Learning Management System Charito Puray ▾



My Class / School Year: 2019-2020



EVE-1A
CSE 213

Remove

My Class

Notification

Message

Backpack

Add Downloadables

Add Announcement

Add Assignment

Quiz

Shared Files

Search Past Class

School Year:

▾

Search

+ Add class

Class Name:

▾

Subject:

▾

School Year:

2019-2020

Save

G-Force by DIU Copyright 2021

Figure 5.1.10 - Teacher Dashboard

5.1.11 Message Box for Teacher:

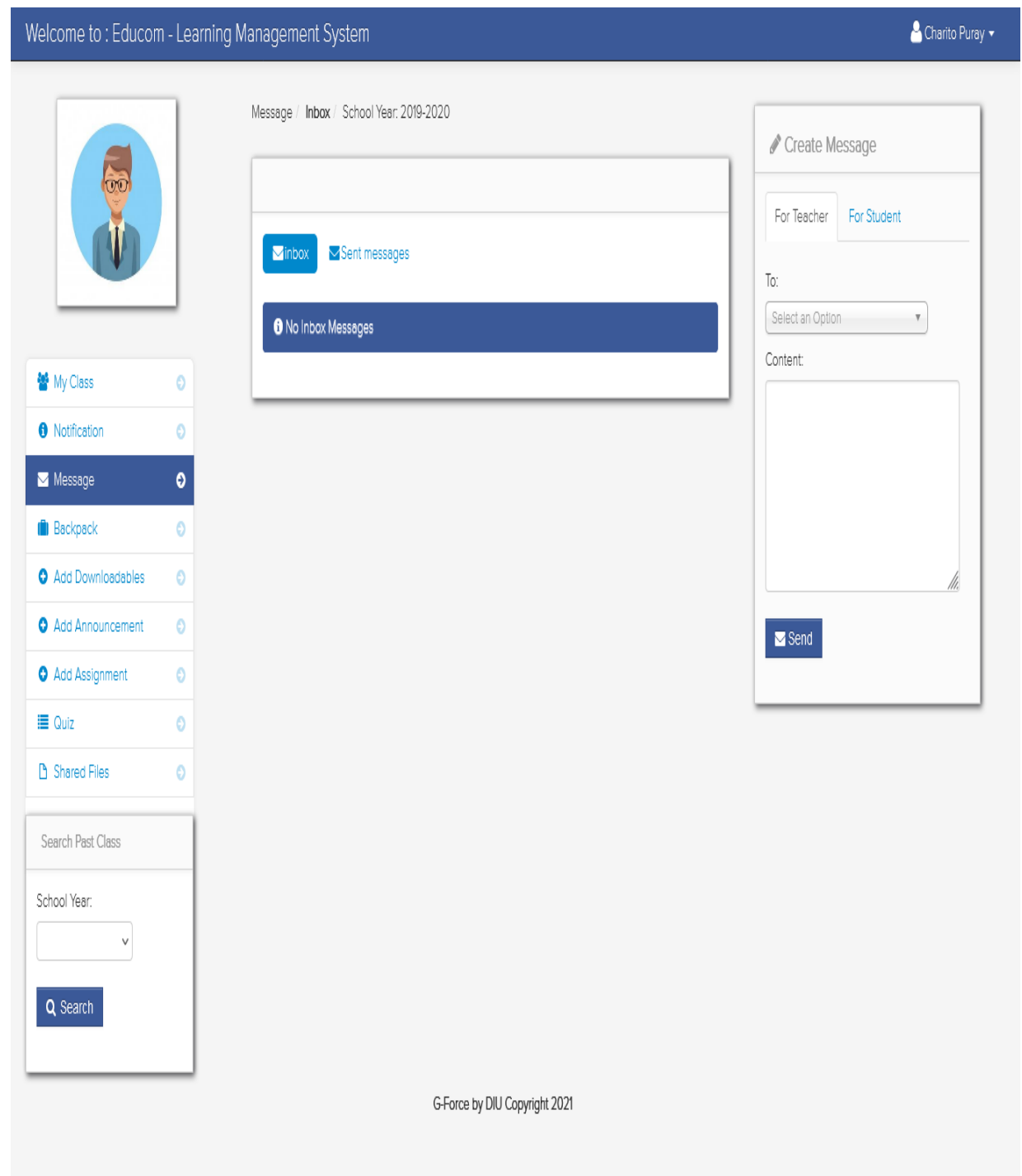


Figure 5.1.11 - Message Box for Teacher

5.1.12 Add Downloadable file for Teacher:

Welcome to : Educom - Learning Management System

Charito Purya



My Class

School Year: 2019-2020

File:

No file selected

Choose File

File Name

Description

Check The Class you want to put this file.

Check All

CLASS NAME	SUBJECT CODE
☐ EVE-1A	CSE 213

Upload

My Class

Notification

Message

Backpack

Add Downloadables

Add Announcement

Add Assignment

Quiz

Shared Files

Search Past Class

Figure 5.1.12 - Add Downloadable file for Teacher

5.1.13 Add Announcement Box for Teacher:

Welcome to : Educom - Learning Management System

Charito Puray



My Class / School Year: 2019-2020

My Class

Notification

Message

Backpack

Add Downloadables

Add Announcement

Add Assignment

Quiz

Shared Files

Search Past Class

Source

Save

Undo

Redo

Find

Print

Cut

Copy

Paste

Undo

Redo

B

I

U

S

X₂

X²

I_x

Align Left

Align Center

Align Right

Justify

Indent Left

Indent Right

Link

Unlink

Image

Table

Table of Contents

Font Color

Background Color

Text Color

Text Background Color

Styles

Format

Font

Size

Align

Text

Table

Table of Contents

body

p

Check The Class you want to put this file.

Check All

CLASS NAME

SUBJECT CODE

☐

EVE-1A

CSE 213

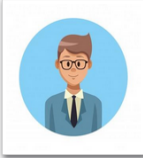
Post

Figure 5.1.13 - Add Announcement Box for Teacher

5.1.14 Add Assignment Box for Teacher:

Welcome to : Educom - Learning Management System Charito Puray

My Class / School Year: 2019-2020



- My Class
- Notification
- Message
- Backpack
- Add Downloadables
- Add Announcement
- Add Assignment**
- Quiz
- Shared Files

Search Past Class

File

No file selected [Choose File](#)

File Name

Description

Check The Class you want to put this file.

Check All ☐

	CLASS NAME	SUBJECT CODE
☐	EVE-1A	CSE 213

[Upload](#)

Figure 5.1.14 - Add Assignment Box for Teacher

5.1.15 Add Quiz Box for Teacher:

Welcome to : Educom - Learning Management System Charito Puray

My Class / School Year: 2019-2020 / Quiz



- My Class
- Notification
- Message
- Backpack
- Add Downloadables
- Add Announcement
- Add Assignment
- Quiz**
- Shared Files

Search Past Class

 [Add Quiz](#) [Add Quiz to Class](#)

	QUIZ TITLE	DESCRIPTION	DATE ADDED	QUESTIONS
☐	Quiz - 1	Quiz - 1	2021-11-06 19:09:19	Questions 

Figure 5.1.15.1 - Add Quiz Box for Teacher

Welcome to : Educom - Learning Management System Charito Puray ▾

My Class / School Year: 2019-2020 / Quiz



Quiz Title

Quiz Description

[← Back](#)

[Save](#)

- My Class
- Notification
- Message
- Backpack
- Add Downloadables
- Add Announcement
- Add Assignment
- Quiz**
- Shared Files

Search Past Class

Figure 5.1.15.2 - Add Quiz for Teacher

5.1.16 Student Dashboard:

Welcome to: Educom - Online Learning Management System Md Abdullah Al Muhit ▾

My Class / School Year: 2019-2020





- My Class
- Notification
- Message
- Backpack

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Figure 5.1.16 - Student Dashboard

5.1.17 Student Notification Box:

Welcome to: Educom - Online Learning Management System

Md Abdullah Al Muhit



My Class

Notification

Message

Backpack

My Class / School Year: 2019-2020

Charito Puray Add Assignment file name Assignments No 1 in EVE-1A CSE 213

2021-11-06 19:40:02

Charito Puray Add Practice Quiz file in EVE-1A CSE 213

2021-11-06 19:20:55

Charito Puray Add Practice Quiz file in EVE-1A CSE 213

2021-11-06 19:09:33

Charito Puray Add Downloadable Materials file name W-1_L-2 in EVE-1A CSE 213

2021-11-06 18:49:11

Charito Puray Add Downloadable Materials file name W-1_L-1 in EVE-1A CSE 213

2021-11-06 18:48:09

G-Force by DIU Copyright 2021

Figure 5.1.17 - Student Notification Box

5.1.18 Message Box for Student:

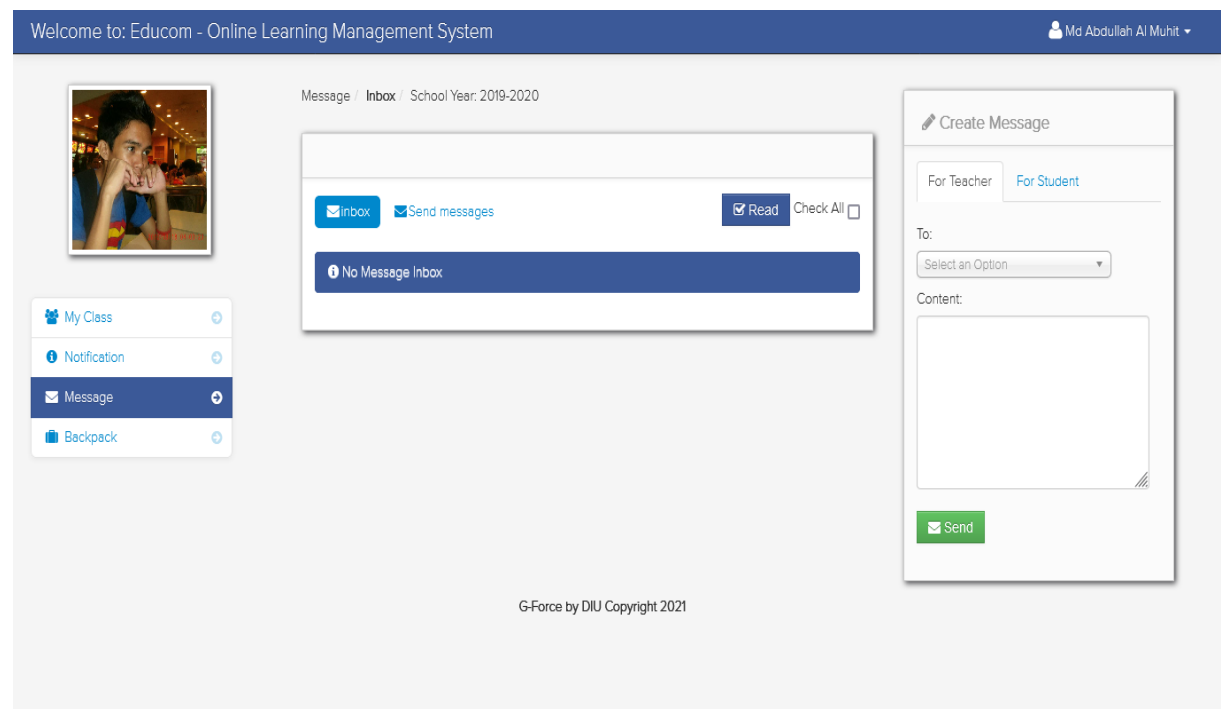


Figure 5.1.18 - Message Box for Student

5.1.19 Course Overview for Student:

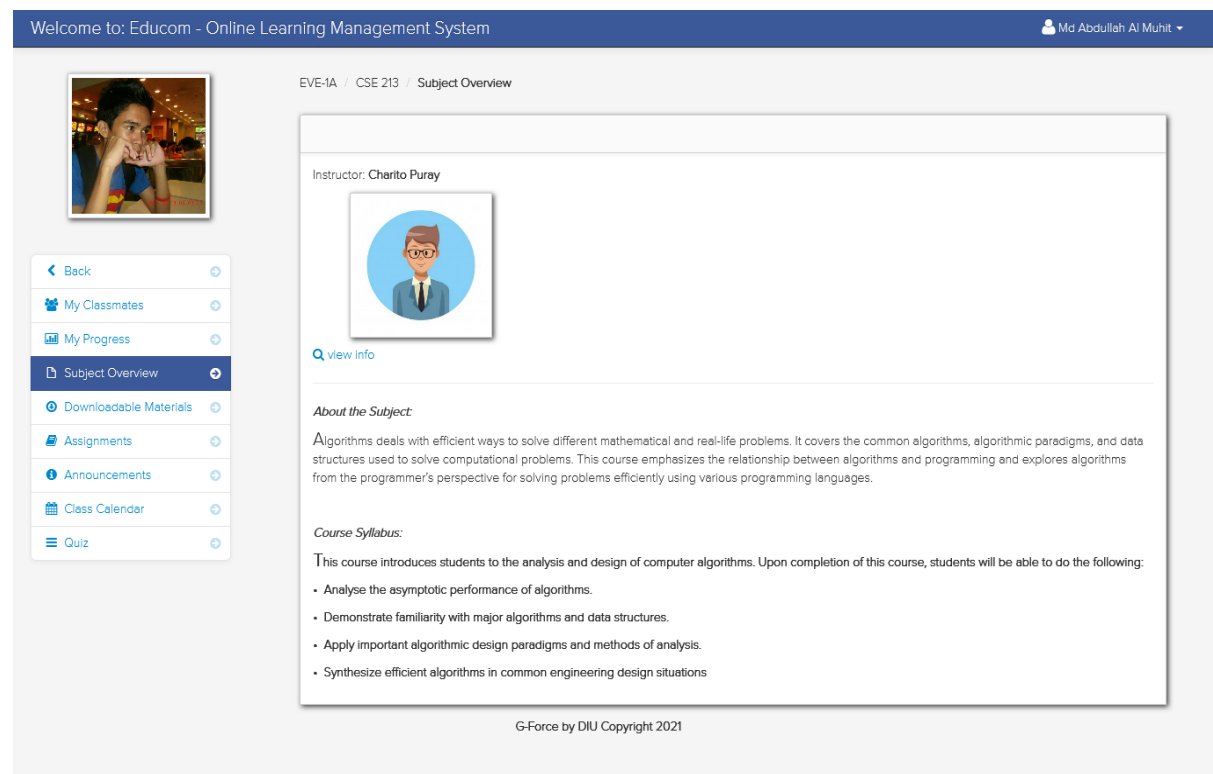


Figure 5.1.19 - Course Overview for Student

5.1.20 Downloadable Materials for Student:

The screenshot shows the 'Downloadable Materials' page for a student. The page layout includes a sidebar on the left with navigation links: Back, My Classmates, My Progress, Subject Overview, Downloadable Materials (selected), Assignments, Announcements, Class Calendar, and Quiz. The main content area displays the student's profile picture and the course information: EVE-1A / CSE 213 / School Year: 2019-2020 / Downloadable Materials. A modal window is open for adding a new downloadable material, showing a table with columns: DATE UPLOAD, FILE NAME, DESCRIPTION, and UPLOADED BY. The table contains two entries. A 'Copy Check item to backpack' button is visible above the table. A 'Check All' checkbox is also present. The modal window includes a 'File' section with a 'Choose File' button, a 'File Name' input field, a 'Description' input field, and an 'Upload' button.

DATE UPLOAD	FILE NAME	DESCRIPTION	UPLOADED BY
2021-11-06 18:49:11	W-1_L-2	Function and Recursion_Euclid's Greatest Common Divisor(GCD) Algorithm	Charito Puray
2021-11-06 18:48:09	W-1_L-1	Introduction_Motivation Course logistics	Charito Puray

Figure 5.1.20 - Downloadable Materials for Student

5.1.21 Assignments for Student:

The screenshot shows the 'Uploaded Assignments' page for a student. The page layout includes a sidebar on the left with navigation links: Back, My Classmates, My Progress, Subject Overview, Downloadable Materials, Assignments (selected), Announcements, Class Calendar, and Quiz. The main content area displays the student's profile picture and the course information: EVE-1A / CSE 213 / School Year: 2019-2020 / Uploaded Assignments. A modal window is open for uploading an assignment, showing a table with columns: DATE UPLOAD, FILE NAME, and DESCRIPTION. The table contains one entry. A 'Submit Assignment' button is visible next to the assignment entry.

DATE UPLOAD	FILE NAME	DESCRIPTION
2021-11-06 19:40:02	Assignments No 1	Assignments No 1 Sumitted Date : 09.11.2021

Figure 5.1.21 - Assignments for Student

5.1.22 Class Calendar for Student:

Welcome to: Educom - Online Learning Management System
Md Abdullah Al Muhit



EVE-1A / CSE 213 / School Year: 2019-2020 / My Class Calendar

Back
My Classmates
My Progress
Subject Overview
Downloadable Materials
Assignments
Announcements
Class Calendar
Quiz

Calendar

November 2021
month week day

SUN	MON	TUE	WED	THU	FRI	SAT
31	1	2	3	4	5	6
7	8 L-4	9 L-5	10	11	12	13 All Subject Class Test 2 (CT 2)
14	15	16	17	18	19	20
All Subject Class Test 2 (CT 2)						
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

G-Force by DIU Copyright 2021

Figure 5.1.22 - Class Calendar for Student

5.1.23 Quiz for Student:

The screenshot displays the Educom Online Learning Management System interface. At the top, a blue header bar contains the text "Welcome to: Educom - Online Learning Management System" on the left and a user profile icon with the name "Md Abdullah Al Muhit" on the right. Below the header, the main content area is divided into a left sidebar and a central quiz area. The sidebar contains a list of navigation links: "Back", "My Classmates", "My Progress", "Subject Overview", "Downloadable Materials", "Assignments", "Announcements", "Class Calendar", and "Quiz" (which is highlighted in blue). The central quiz area is titled "Test Title: Quiz - 1" and includes a description "Quiz - 1", a time remaining of "59 minutes and 50 seconds", and a list of questions. The first question is "1. How many passes does an insertion sort algorithm consist of?". Below the question, there are four radio button options: A) N , B) $N-1$, C) $N+1$, and D) N^2 . At the bottom of the quiz area, there are two buttons: "NEXT QUESTION →" and "Submit Answer".

Welcome to: Educom - Online Learning Management System

Md Abdullah Al Muhit

EVE-1A / CSE 213 / School Year: 2019-2020 / Practice Quiz

Test Title: Quiz - 1

Description: Quiz - 1

Time Remaining:

59 minutes and 50 seconds

QUESTION

1. How many passes does an insertion sort algorithm consist of?

A) N

B) $N-1$

C) $N+1$

D) N^2

NEXT QUESTION →

Submit Answer

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Figure 5.1.23 - Quiz for Student

5.2 Back-End Development:

Back-end is not visible for the user in the application. In any application the back end give service for user. User give input through front end part then back end part process the input. It's the behind the scenes functionality the brain of a site. By using PHP storm, we can build easily back end design.

CHAPTER 6

IMPLEMENTATION OF DATABASE AND TESTING

6.1 Database Implementation:

The requests generated by the “SQL” are handled by a database management system. Here are steps of implement of database.

- a) Install DBMS and configure
- b) Database Running
- c) Database and table creation
- d) Integrating with application

6.1.2 Database Design:

We are created sql database in XAMPP of this project based.

Two most important fundamental setting for a database are:-

- a) Primary key
- b) Foreign key

6.1.3 Database Management System:

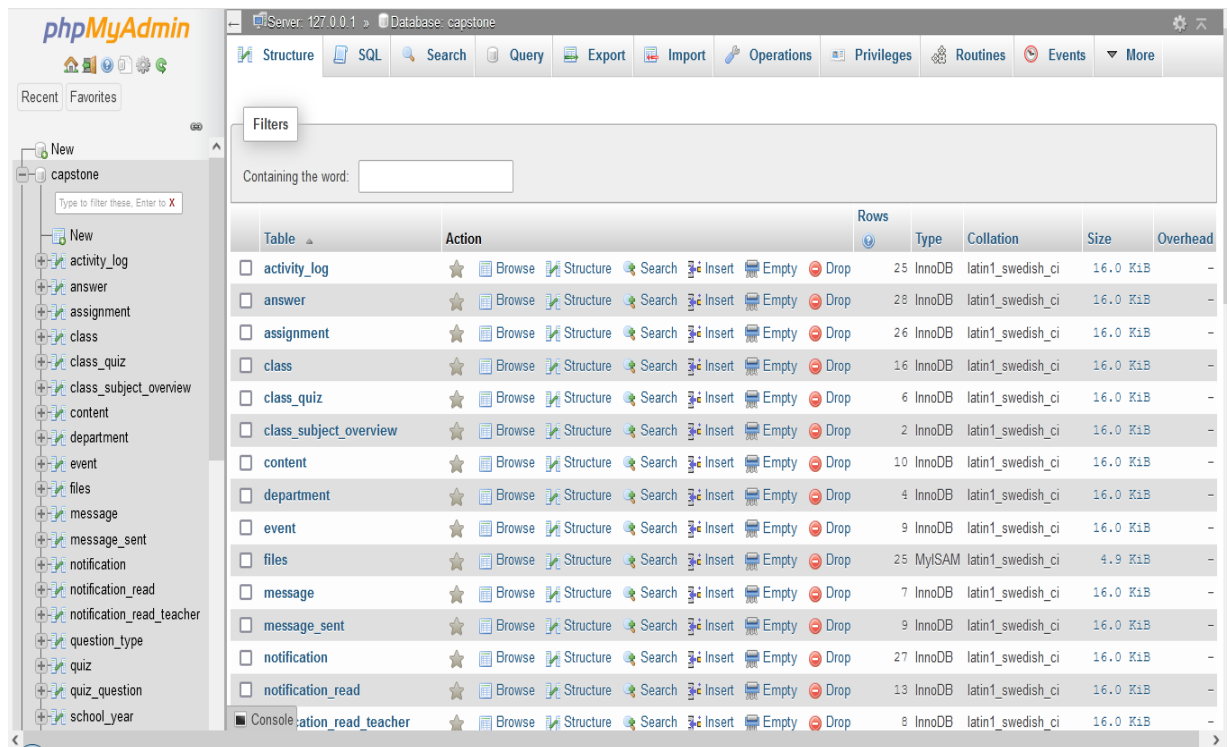
A database management system (DBMS) is the system software for creating and managing database. The DBMS provides users and programmers with a systematic way to create, retrieve, update & manage data In our application we used MYSQL.

6.1.4 MySQL:

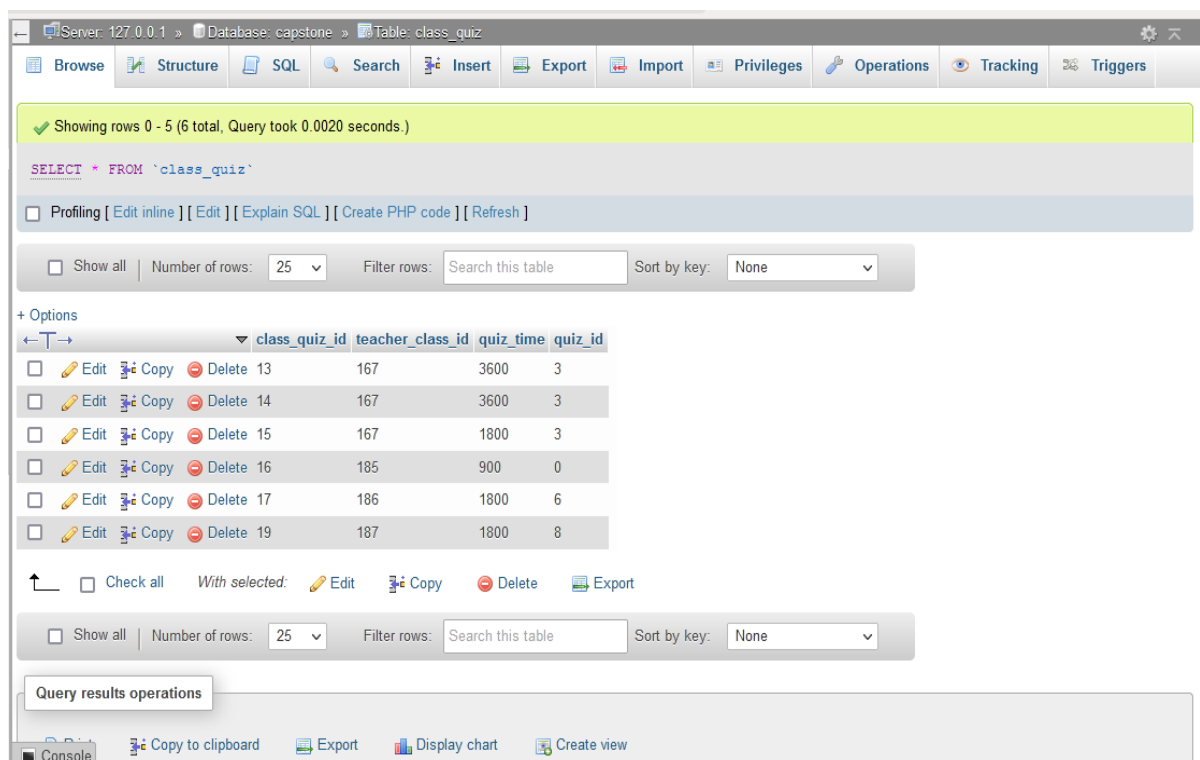
“MySQL” is the ‘free & open source’ relational SQL database system. It runs on a web server. MySQL uses standard SQL query. We have used the SQL query in our web application to fetch data which data is viewed by admin, Teacher and Student.

6.1.5 MySQL Figure in Our Project:

a)



b)



c)

Server: 127.0.0.1 » Database: capstone » Table: student_assignment

Showing rows 0 - 0 (1 total, Query took 0.0010 seconds.)

```
SELECT * FROM `student_assignment`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	student_assignment_id	assignment_id	floc	assignment_fdatein	fdesc	fname	student_id	grade
☐ Edit ☐ Copy ☐ Delete	1	31	admin/uploads/7820_File_sample.pdf	2020-12-21 10:12:04	aaa	asdasd	219	

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

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Console x this SQL query

d)

Showing rows 0 - 5 (6 total, Query took 0.0010 seconds.)

```
SELECT * FROM `student_class_quiz`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

+ Options

	student_class_quiz_id	class_quiz_id	student_id	student_quiz_time	grade
☐ Edit ☐ Copy ☐ Delete	1	15	107	3600	0 out of 2
☐ Edit ☐ Copy ☐ Delete	2	16	136	3600	0 out of 0
☐ Edit ☐ Copy ☐ Delete	3	17	219	3600	1 out of 3
☐ Edit ☐ Copy ☐ Delete	4	15	104	3600	1 out of 2
☐ Edit ☐ Copy ☐ Delete	5	18	111	3578	0 out of 0
☐ Edit ☐ Copy ☐ Delete	6	19	111	3578	

Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

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

e)

phpMyAdmin

Server: 127.0.0.1 » Database: capstone » Table: files

Showing rows 0 - 24 (25 total, Query took 0.0000 seconds.)

SELECT * FROM `files`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

+ Options

	file_id	floc	fdatetime	fdesc	teacher_id	class_id	fname	uploaded_by
☐ Edit ☐ Copy ☐ Delete	133	admin/uploads/7939_File_449E26DB.jpg	2014-02-20 10:31:38	sas	14	177	sss	
☐ Edit ☐ Copy ☐ Delete	132	admin/uploads/7939_File_449E26DB.jpg	2014-02-20 10:29:53	sas	14	178	sss	
☐ Edit ☐ Copy ☐ Delete	131	admin/uploads/7939_File_449E26DB.jpg	2014-02-20 10:28:09	sas	14	12	sss	
☐ Edit ☐ Copy ☐ Delete	129	admin/uploads/7939_File_449E26DB.jpg	2014-02-20 10:12:38	sas	0	12	sss	
☐ Edit ☐ Copy ☐ Delete	130	admin/uploads/7939_File_449E26DB.jpg	2014-02-20 10:26:11	sas	0	12	sss	
☐ Edit ☐ Copy ☐ Delete	128	admin/uploads/7614_File_1476273_644977475552481_20...	2014-02-13 13:31:18	qwqwqw	12	185	kevi	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	127	admin/uploads/1085_File_Resume.docx	2014-02-13 12:53:09	q	12	183	q	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	126	admin/uploads/7895_File_PERU REPORT.pptx	2014-02-13 12:35:42	chapter 1	12	182	chapter 1	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	125	admin/uploads/2658_File_kevin.docx	2014-02-13 11:10:56	test	12	181	test	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	123	admin/uploads/4801_File_painting-02.jpg	2013-12-11 12:02:46	jdkasjfd	12	163	Test	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	122	admin/uploads/3985_File_win_boot_screen_16_9_by_me...	2013-12-07 20:00:22	dasdasd	12	145	dasd	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	121	admin/uploads/7439_File_win_boot_screen_16_9_by_me...	2013-12-07 19:59:46	asdad	12	162	kevin	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	120	admin/uploads/7439_File_win_boot_screen_16_9_by_me...	2013-12-07 19:59:46	asdad	12	145	kevin	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	119	admin/uploads/3166_File_win_boot_screen_16_9_by_me...	2013-12-07 19:58:44	kevin	12	145	kevin	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	118	admin/uploads/4849_File_win_boot_screen_16_9_by_me...	2013-11-26 23:59:20	q	0	162	qq	StephanieVillanueva
☐ Edit ☐ Copy ☐ Delete	117	admin/uploads/9467_File_win_boot_screen_16_9_by_me...	2013-11-26 10:42:37	test	0	162	report group 1	MarianneTumala
☐ Edit ☐ Copy ☐ Delete	116	admin/uploads/5990_File_win_boot_screen_16_9_by_me...	2013-11-26 02:51:24	w	12	162	w	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	115	admin/uploads/5990_File_win_boot_screen_16_9_by_me...	2013-11-26 02:51:24	w	12	145	w	Ruby Mae Morante
☐ Edit ☐ Copy ☐ Delete	138	admin/uploads/3952_File_sample.pdf	2020-12-21 09:24:50	Sample	9	186	Sample	JomarPabuaya
☐ Edit ☐ Copy ☐ Delete	139	admin/uploads/3579_File_sample.pdf	2020-12-21 09:38:22	adasd	9	186	234234	JomarPabuaya
☐ Edit ☐ Copy ☐ Delete	140	admin/uploads/6898_File_sample.pdf	2020-12-21 09:39:32	adasd	9	186	234234	JomarPabuaya
☐ Edit ☐ Copy ☐ Delete	141	admin/uploads/9782_File_sample.pdf	2020-12-21 09:40:28	adasd	9	186	234234	JomarPabuaya
☐ Edit ☐ Copy ☐ Delete	142	admin/uploads/5284_File_2a70571140fa79297799d37ab5...	2021-11-06 17:48:07	555	0	180	444	Mark DominicSayon
☐ Edit ☐ Copy ☐ Delete	143	admin/uploads/3534_File_1_W-1_L-1 Introduction_Mo...	2021-11-06 18:48:09	Introduction_Motivation Course logistics	15	187	W-1_L-1	Chanto Puray
☐ Edit ☐ Copy ☐ Delete	144	admin/uploads/4026_File_2_W-1_L-2_Function and Re...	2021-11-06 18:49:11	Function and Recursion_Euclid's Greatest Common Di...	15	187	W-1_L-2	Chanto Puray

Check all | With selected: Edit Copy Delete Export

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

f)

Server: 127.0.0.1 » Database: capstone » Table: subject

Showing rows 0 - 21 (22 total, Query took 0.0010 seconds)

SELECT * FROM `subject`

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

	subject_id	subject_code	subject_title	category	description	unit	Pre_req	semester
☐ Edit Copy Delete	14	CSE 411A	Senior Systems Project 1		<p>About the Su...	3		
☐ Edit Copy Delete	15	CSE 412	Effective Human Communication for IT Professional		<p>About the Su...	3		
☐ Edit Copy Delete	16	CSE 311	Programming Languages With C or C++		<pre>About th...	3		
☐ Edit Copy Delete	22	CSE 221	Web Application Development			3		2nd
☐ Edit Copy Delete	23	CSE 432	Computer and Network Security		About the Subject <h5 style="te...	3		2nd
☐ Edit Copy Delete	24	CSE 222	Object Oriented Programming		<p dir="ltr" style="text-align:left">Dear ...	3		2nd
☐ Edit Copy Delete	25	CSE 213	Algorithms		About the Subject: ...	3		2nd
☐ Edit Copy Delete	26	CSE 333	Peripherals and Interfacing		<p><u>Cou...	3		2nd
☐ Edit Copy Delete	28	LIT 1	Philippine Literature			3		2nd
☐ Edit Copy Delete	29	ACCTG 2	Fundamentals of Accounting 2			3		2nd
☐ Edit Copy Delete	30	PE 4	Team Sports			3		2nd
☐ Edit Copy Delete	31	IS 302	Survey of Programming Languages			3		2nd
☐ Edit Copy Delete	32	IS 303	Structured Query Language			3		2nd
☐ Edit Copy Delete	33	IS 321	Information System Planning			3		2nd
☐ Edit Copy Delete	34	IS 322	Management of Technology			3		2nd
☐ Edit Copy Delete	35	IS 323	E-commerce Strategy Architectural			3		2nd
☐ Edit Copy Delete	36	IS 324	System Analysis and Design			3		2nd
☐ Edit Copy Delete	37	Law 1	Law on Obligation and Contracts			3		2nd
☐ Edit Copy Delete	38	Philo 1	Social Philosophy & Logic			3		2nd
☐ Edit Copy Delete	39	MQTB	Quantitative Techniques in Business			3		2nd
☐ Edit Copy Delete	40	RIZAL	Rizal: Life and Works		COURSE OUTLINE 1. Course Code : RIZAL ...	3		2nd
☐ Edit Copy Delete	41	IS 411B	Senior Systems Project 2			3		2nd

Query results operations: Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Figure 6.1.5.1 – a, b, c, d, e, f is All Tables of database

Showing rows 0 - 5 (6 total, Query took 0.0010 seconds.)

```
SELECT * FROM `student_class_quiz`
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

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

+ Options

	student_class_quiz_id	class_quiz_id	student_id	student_quiz_time	grade
☐ Edit Copy Delete	1	15	107	3600	0 out of 2
☐ Edit Copy Delete	2	16	136	3600	0 out of 0
☐ Edit Copy Delete	3	17	219	3600	1 out of 3
☐ Edit Copy Delete	4	15	104	3600	1 out of 2
☐ Edit Copy Delete	5	18	111	3578	0 out of 0
☐ Edit Copy Delete	6	19	111	3578	

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

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

Figure 6.1.5.2 - Student Class Quiz Tables

Server: 127.0.0.1 » Database: capstone » Table: student_assignment

Showing rows 0 - 0 (1 total, Query took 0.0010 seconds.)

```
SELECT * FROM `student_assignment`
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	student_assignment_id	assignment_id	floc	assignment_fdatein	fdesc	fname	student_id	grade
☐ Edit Copy Delete	1	31	admin/uploads/7620_File_sample.pdf	2020-12-21 10:12:04	aaa	asdasd	219	

☐ 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](#)

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Console: [Click this SQL query](#)

Figure 6.1.5.3 - Student Assignment Tables

←T→	quiz_question_id	quiz_id	question_text	question_type_id	points	date_added	answer
☐ Edit Copy Delete	36	6	sample	1	0	2020-12-21 10:05:09	A
☐ Edit Copy Delete	37	6	asdasd	2	0	2020-12-21 10:05:25	True
☐ Edit Copy Delete	38	6	sdsd	2	0	2020-12-21 10:05:35	False
☐ Edit Copy Delete	39	8	<p>1. How many passes does an insertion sort algor...	1	0	2021-11-06 19:13:35	
☐ Edit Copy Delete	40	8	<p>2. Which of the following algorithm implementat...	1	0	2021-11-06 19:14:35	
☐ Edit Copy Delete	42	8	<p>3. What is the average case running time of an ...	1	0	2021-11-06 19:17:57	
☐ Edit Copy Delete	43	8	<p>4. Any algorithm that sorts by exchanging adjac...	2	0	2021-11-06 19:18:28	
☐ Edit Copy Delete	44	8	<p>5. Binary search can be used in an insertion so...	2	0	2021-11-06 19:19:05	

☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

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

Query results operations

☐ Print ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Console this SQL query

Figure 6.1.5.4 - Student Quiz Question Tables

Showing rows 0 - 12 (13 total, Query took 0.0010 seconds.)

```
SELECT * FROM `notification_read`
```

☐ Profiling ☐ Edit inline ☐ Edit ☐ Explain SQL ☐ Create PHP code ☐ Refresh

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

+ Options

←T→	notification_read_id	student_id	student_read	notification_id
☐ Edit Copy Delete	1	219	yes	22
☐ Edit Copy Delete	2	219	yes	21
☐ Edit Copy Delete	3	219	yes	20
☐ Edit Copy Delete	4	219	yes	19
☐ Edit Copy Delete	5	219	yes	15
☐ Edit Copy Delete	6	104	yes	10
☐ Edit Copy Delete	7	104	yes	5
☐ Edit Copy Delete	8	104	yes	3
☐ Edit Copy Delete	9	111	yes	24
☐ Edit Copy Delete	10	111	yes	28
☐ Edit Copy Delete	11	111	yes	27
☐ Edit Copy Delete	12	111	yes	26
☐ Edit Copy Delete	13	111	yes	25

Console this SQL query

Figure 6.1.5.5 - Student Notification Read Tables

phpMyAdmin

Server: 127.0.0.1 - Database: capstone - Table: subject

Showing rows 0 - 21 (22 total. Query took 0.0010 seconds.)

SELECT * FROM `subject`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

	subject_id	subject_code	subject_title	category	description	unit	Pre_req	semester
☐ Edit Copy Delete	14	CSE 411A	Senior Systems Project 1		<p>About the Su...	3		
☐ Edit Copy Delete	15	CSE 412	Effective Human Communication for IT Professional		<p>About the Su...	3		
☐ Edit Copy Delete	16	CSE 311	Programming Languages With C or C++		<pre>About th...	3		
☐ Edit Copy Delete	22	CSE 221	Web Application Development			3		2nd
☐ Edit Copy Delete	23	CSE 432	Computer and Network Security		About the Subject <h5 style="te...	3		2nd
☐ Edit Copy Delete	24	CSE 222	Object Oriented Programming		<p dir="ltr" style="text-align:left">Dear ...	3		2nd
☐ Edit Copy Delete	25	CSE 213	Algorithms		About the Subject: ...	3		2nd
☐ Edit Copy Delete	26	CSE 333	Peripherals and Interfacing		<p><u>Cou...	3		2nd
☐ Edit Copy Delete	28	LIT 1	Philippine Literature			3		2nd
☐ Edit Copy Delete	29	ACCTG 2	Fundamentals of Accounting 2			3		2nd
☐ Edit Copy Delete	30	PE 4	Team Sports			3		2nd
☐ Edit Copy Delete	31	IS 302	Survey of Programming Languages			3		2nd
☐ Edit Copy Delete	32	IS 303	Structured Query Language			3		2nd
☐ Edit Copy Delete	33	IS 321	Information System Planning			3		2nd
☐ Edit Copy Delete	34	IS 322	Management of Technology			3		2nd
☐ Edit Copy Delete	35	IS 323	E-commerce Strategy Architectural			3		2nd
☐ Edit Copy Delete	36	IS 324	System Analysis and Design			3		2nd
☐ Edit Copy Delete	37	Law 1	Law on Obligation and Contracts			3		2nd
☐ Edit Copy Delete	38	Philo 1	Social Philosophy & Logic			3		2nd
☐ Edit Copy Delete	39	MQTB	Quantitative Techniques in Business			3		2nd
☐ Edit Copy Delete	40	RIZAL	Rizal: Life and Works		COURSE OUTLINE 1. Course Code : RIZAL ...	3		2nd
☐ Edit Copy Delete	41	IS 411B	Senior Systems Project 2			3		2nd

Check all | With selected: Edit Copy Delete Export

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Figure 6.1.5.6 - Student Subject Tables

6.2 Testing Implementation:

Testing implementation is a process of this implementation. For our project, we conducted system testing, database testing & usability testing.

6.2.1 System Testing:

System testing is a series of different test. It is an internal work of this application. We have got output results from this system that we desired. If we input some wrong data, system can detect and message to user and if we input correct data, system can interact with database and show data to user.

6.2.2 Database Testing:

Database testing is need for a system to perform data integrity and data consistency. Backend system access database for multiple reason. Then harmful or incorrect data can be stored in database system. As our project is based on web application data comes it through internet and incorrect data stored in database. This incorrect data stored can be stop Schema or mapping testing.

6.2.3 Testing Results:

The result of this test was close what we have desired. Every function is executed and tested through different types of system test. Every test was working well and the result was ok. But at the future we will add some functionality and then system will be again test and then results can be different.

CHAPTER 7

CONCLUSION AND FUTURE SCOPE

7.1 Conclusion:

This project is a web app focused on developing skilled manpower through appropriate career development. Instructors and users are co-operating with each other to reach their goal. Instructors will share their knowledge and get experience. Appropriate concept of this generation like e-Learning and career development that's implemented here. Skilled manpower will be directly involved in the economy of our country. Satisfaction from both learner and instructor is our motivation and inspiration to add features and functionalities for future development of our application. This application is under development, we are trying to improve user experience and effectiveness in already implemented Features, functionalities.

7.2 Future Enhancement:

A few highlights might be consider as a future work for this project. Theses highlight are summarized in the accompanying focuses in our project.

- Allow the student to take an Online test Exam.
- System for online exam.
- Own Bank of question per subject.
- Add new subject.
- Online Attendance System.
- Add online Library System.
- Develop Android & iOS apps.
- Smart Online Exam System.

CHAPTER 8

APPENDIX

8.1 Appendix: Project Reflection:

The last year journey, we acquired more knowledge & experience to complete our final project. We work hard to complete the final project & we huge time spend behind this project. When we start our project work, this time we did not know how to complete this project. But proper plan helps us to complete this project. Every time supervisor sir supports us when we face any problem. Al last, we are grateful to Almighty ALLAH and our honorable supervisor sir Dr. Sheak Rashed Haider Noori for his endless support & proper guideline throughout the session.

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