

E-Learning: A Government Remote Learning Platform

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This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

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APPROVAL

This project titled on "**E Learning: A Government Remote learning platform**", submitted by Md. Joy Islam (ID: 171-35-1954) to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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I hereby declare that I have taken this project under the supervision of **Mr. Md. Anwar Hossen, Senior Lecturer, Department of Software Engineering, and Daffodil International University**. I also declare that I have submitted neither this project nor any part of it for award of any degree.

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Chapter 1

INTRODUCTION

1.1 Introduction

Sometimes government offers so many courses. Those are any kind of courses. Like (IT related, Bank related etc.). Then government takes classes and takes some exam according to their classes. However, when they take classes & exams physically they face some problems. Like sometimes, some students cannot come timely to attend their classes & give their exams as they face many problems. Therefore, I consider those problems and try to solve those problems. Therefore, I made an application to solve those problems. Now government easily can take those class and exams online by using my application. Examinees will be able to given their exam from anywhere in their exam time using this application. In my application, they will be able to make questions and calculate the results easily because my application will calculate marks automatically. Now everybody know the situation of the country. It is a pandemic situation. Peoples cannot get out from home. Therefore, they are doing work from home through online. Therefore, I think it is perfect for this time or for any time & it will help them. After finishing exams, students will get certificate of their courses.

1.2 Project Purpose

The purpose of this project is to help the government and normal user. As a mentioned before that government sometimes offers many courses for the people under any ministry. Under those courses government takes physical class and exam. So when students trying to do those physical classes and performed at exam they face many problems. Sometimes many student could be unable to do the classes and would be unable to perform exams at proper time. Therefore, they will miss those classes and exams.

So according to these problems, I consider my project. E-learning application will solve those problems. Students will be able to do their classes from any place through my application al so; they will can perform their exam from any place. Therefore, they do not need to come physically for giving their exams and for doing classes.

Government will be able to take their exams through my application easily and they do not need to calculate marks individually for each student. Because my system will automatically do that.

In addition, after completing the courses students will get certificate and those certificate will help them in future.

In addition, in this pandemic situation everybody should maintain some distance from each other. Therefore, my project would be perfect for this situation. Students and government both will to take and give their exams and classes from home.

1.3 Project Problem Statement

When student coming for the exam they are facing some problem. Many examines come from far away to take the exam. Students have to come physically and attend their exam.

In addition, there have a result published problem like some time government cannot published exam results in proper time. They cannot give result in an accurate time.

Students cannot find their result properly. Government showing results not sequentially.

The result sheet look like mess.

1.4 Project Objective

This system will save time. Candidates do not need to coming for the exam. Examinee will find their question topic wise. They are can take the test or exams from home or anywhere. There will be no problem in the result sheet. Candidates will be able to find out their result in the time.

1.5 Project Scope

This system is being build up for government. Government easily can take their course exams using online. Super admin will be add ministry, minister name and full details of minister. Minister add trainer for course and all details of trainer. Trainer add topic wise question in the system and create question for exam. Examinee will attend their exam via online form anywhere.

1.6 Project Overview

Student will be able to enroll government courses from anywhere of the country. Ministry incharge will be able to take courses through internet. It will reduce travel problem for learning. Learning will be easy.

1.7 Project Motivation

Our motivation is do somethings for people that will be solved their problems. In addition, our course teacher (Md. Anwar Hossen) sir motivate us for do something different. We really want to thank our teacher for helping us in this project and for motivating us. In addition, always said one things don not worry about it, you all can do it and go ahead.

1.8 Stakeholder

There are four types of user in the system. The first user is Super Admin, second is Ministry Incharge, third is Teacher and the last is Student.

Super admin: Super admin have permission add ministry in the system and minister details. So super admin log in the system with his valid email and password then he will be able to access the system and do his work.

Ministry Incharge: Minister Incharge have permission add teacher for training. Therefore, ministry incharge will add teacher and all details of teacher in the system. Ministry incharge log in the system with his valid email and password then he will be able to access the system and do his work.

Teacher: Teacher have permission for add question in the system and create question for the exam. Therefore, he log in the system with his validate email and password then he will be able to access the system then, add question in the system and create question for the exam.

Student: Student have permission to see the topic and topic wise some videos in the system. Then they will attend the exam. But before they have to sign up the system with valid information then, log in the system with their email and password after that they will be able to attend their exams.

Chapter 2

Software Requirement Specification (SRS)

2.1 Functional Requirement

Functional requirements refer to the function, which is necessary for the system. They are mandatory to run the application. There is no system without functional requirements. Now, we are going to discuss functional requirement for this project.

Priority Chart

It is a technique to assemble the requirements according to priority. Using this technique, we can easily categorized the functional requirements that can be performed by my system and can identify which function should get High Priority and which one should get Medium Priority and which one get Low Priority.

FR ID	DESCRIPTION	PRIORITY
FR01	Log In	High
FR02	Recover Password	High
FR03	Update Profile	Medium
FR04	Super Admin can manage ministry	High
FR05	Super Admin can manage ministry incharge	Medium
FR06	Ministry Incharge can view course	High
FR07	Ministry Incharge can manage teacher	High
FR08	Ministry Incharge can manage student	High
FR09	Ministry Incharge can manage course assign	High

FR10	Ministry Incharge can manage course material	High
	approved	
FR11	Ministry Incharge can manage student enroll	High
FR12	Teacher can manage course material	High
FR13	Teacher can manage course material upload	High
FR14	Teacher can manage quiz	High
FR15	Teacher can manage question	High
FR16	Teacher can manage answer	High
FR17	Teacher can view result sheet	Medium
RR18	Student can sign up	High
FR19	Student can view course	Medium
FR20	Student can view teacher	Medium
FR21	Student can course enroll	High
FR22	Student can view enroll courses	Medium
FR23	Student can view enroll courses material lecture	High
FR24	Student can view quiz	Medium
FR25	Student can Attempt quiz	High
FR26	Student can view taken quiz result	High

Table 2. 1: Priority of the system features based on Priority Char

2.1.1 Log In

FR01	Log In		
Description	Authenticate user can log in to the system password.	using their	r email and
Stakeholders	Super Admin, Ministry Incharge, Teacher, Student	Priority	High

2.1.2 Recover Password

FR02	Recover Password		
Description	Authenticate users can recover password using their email.		
Stakeholders	Super Admin, Ministry Incharge, Teacher,	Priority	High
	Student		

2.1.3 Update Profile

FR03	Update Profile		
Description	Authenticate users can update profile.		
Stakeholders	Super Admin, Ministry Incharge, Teacher,	Priority	Medium
	Student		

FR04	Can Manage Ministry		
Description	Super admin can manage ministry information. Super admin can manage add ministry, view ministry, update ministry, delete ministry		
Stakeholders	Super Admin	Priority	High

2.1.4 Super Admin can manage ministry

2.1.5 Super Admin can manage ministry incharge

FR05	Can Manage Ministry Incharge		
Description	Super admin can manage ministry incharge information. Super admin can add ministry incharge, view ministry incharge, update ministry incharge, and delete ministry incharge.		
Stakeholders	Super Admin	Priority	High

2.1.6 Ministry Incharge can manage view course

FR06	Can Manage Course		
Description	Ministry incharge can manage course information. Ministry incharge can add course, view course, update course, delete course		
Stakeholders	Ministry Incharge	Priority	High

FR07	Can Manage Teacher		
Description	Ministry incharge can manage teacher information. Ministry incharge can add teacher, view teacher, update teacher, delete teacher		
Stakeholders	Ministry Incharge	Priority	High

2.1.7 Ministry Incharge can manage teacher

2.1.8 Ministry Incharge can manage teacher enroll

FR08	Can Manage Teacher Enroll		
Description	Ministry incharge can manage teacher enroll information. Ministry incharge can add teacher enroll, view teacher enroll, update teacher		
	enroll, delete teacher enroll		
Stakeholders	Ministry Incharge	Priority	High

2.1.9 Ministry Incharge can manage student

FR09	Can Manage Student		
Description	Ministry incharge can manage student information. Ministry incharge can add student, view student, update student, delete student		
Stakeholders	Ministry Incharge	Priority	High

FR10	Can Manage Student Enroll		
Description	Ministry incharge can manage student enroll information. Ministry		
	incharge can add student enroll, view student enroll, update student		
	enroll, delete student enroll		
Stakeholders	Ministry Incharge	Priority	High

2.1.10 Ministry Incharge can manage student enroll

2.1.11 Ministry Incharge can manage course material approved

FR11	Can Manage Course Material Approved		
Description	Ministry incharge can manage course material approved information. Ministry incharge can view, update, delete course material approved		
Stakeholders	Ministry Incharge	Priority	High

2.1.12 Teacher can manage course material

FR12	Can Manage Course Material		
Description	Teacher can manage course material information. Teacher can add, view, delete, update course material		
Stakeholders	Teacher	Priority	High

FR13	Can Manage Upload Lecture		
Description	Teacher can view all the courses upload lecture information. Teacher can add, view, delete, update upload lecture.		
Stakeholders	Teacher	Priority	High

2.1.14 Teacher can manage quiz

FR14	Can Manage Quiz		
Description	Teacher can manage course quiz information. Teacher can add, view, delete, update quiz		
Stakeholders	Teacher	Priority	High

2.1.15 Teacher can manage question

FR15	Can Manage Question		
Description	Teacher can manage question information. Teacher can add, view, delete, update question		
Stakeholders	Teacher	Priority	High

2.1.16 Teacher can manage answer

FR16	Can Manage Answer		
Description	Teacher can manage answer informatio update, delete answer	n. Teacher can	add, view,
Stakeholders	Teacher	Priority	High

2.1.17 Teacher can view result sheet

FR17	View Result Sheet		
Description	Teacher can view all the result information		
Stakeholders	Teacher	Priority	Medium

2.1.18 Student can sign up

FR18	Sign Up		
Description	Student can register in the system		
Stakeholders	Student	Priority	High

2.1.19 Student can View Course

FR19	View Course		
Description	Student can view all the course information		
Stakeholders	Student	Priority	Medium

2.1.20 Student can View Teacher

FR20	View Teacher		
Description	Student can view all the teacher information		
Stakeholders	Student	Priority	Medium

2.1.21 Student can Course Enroll

FR21	Course Enroll		
Description	Student can course enroll information		
Stakeholders	Student	Priority	High

2.1.22 Student can View Enroll Courses

FR22	View Enroll Courses		
Description	Student can view enroll courses information		
Stakeholders	Student	Priority	Medium

2.1.23 Student can View Enroll Courses Material Lecture

FR23	View Enroll Courses Material Lecture		
Description	Student can view enroll courses material lecture information		
Stakeholders	Student	Priority	High

2.1.24 Student can View Quiz

FR24	View Quiz		
Description	Student can view quiz courses information		
Stakeholders	Student	Priority	High

2.1.25 Student can Attempt Quiz

FR25	Attempt Quiz		
Description	Student can attempt quiz courses information		
Stakeholders	Student	Priority	High

2.1.26 Student can View Taken Quiz Result

FR26	View Taken Quiz Result		
Description	Student can view taken quiz result courses information		
Stakeholders	Student	Priority	High

2.2 Non-Functional Requirements

2.2.1 Performance Requirements

NFR-01	The landing function will response within second.
Description	While the actors browsing the system the landing function will show within a second.
Stakeholders	Super Admin, Ministry Incharge, Teacher, Student

NFR-02	The system must be available 24x7
Description	The system are available 24 hours in a day. This system will be never fall.
Stakeholders	Super Admin, Ministry Incharge, Teacher, Student

2.2.2 Reliability and Availability

2.2.3 Maintainability and Supportability

NFR-03	The system helps to update information all the time.		
	The teacher add questions in the system then system will update		
	that question on that time.		
Description	In addition, when student attend their exams, after that system		
	automatically update result in the system. Always keep safe all the		
	information.		
Stakeholders	Super Admin, Ministry Incharge, Teacher, Student		

2.2.4 Security

NFR-04	System keep secure all information.
Description	Every actors must enter in system with authentic information. Without authentic information, no one can enter the system.
	In addition, all the system always keep secured.
Stakeholders	Super Admin, Ministry Incharge, Teacher, Student

Chapter 3

Requirement Analysis

3.1 Use Case diagram

3.1.1 Super Admin

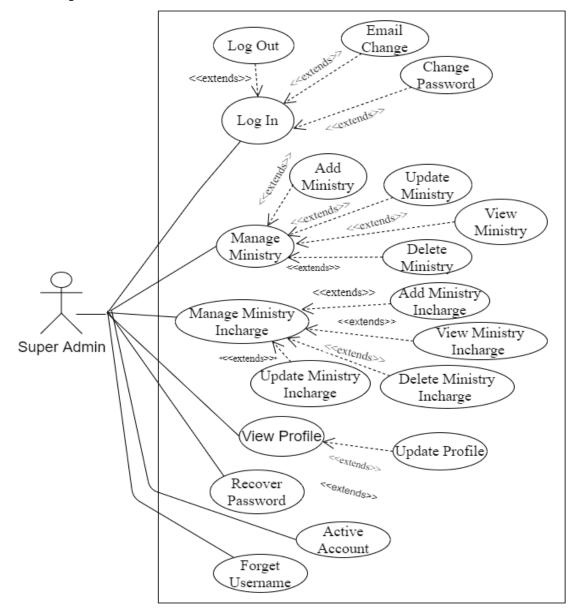


Figure 3.1: Use Case Diagram for Super Admin

3.1.2 Ministry Incharge

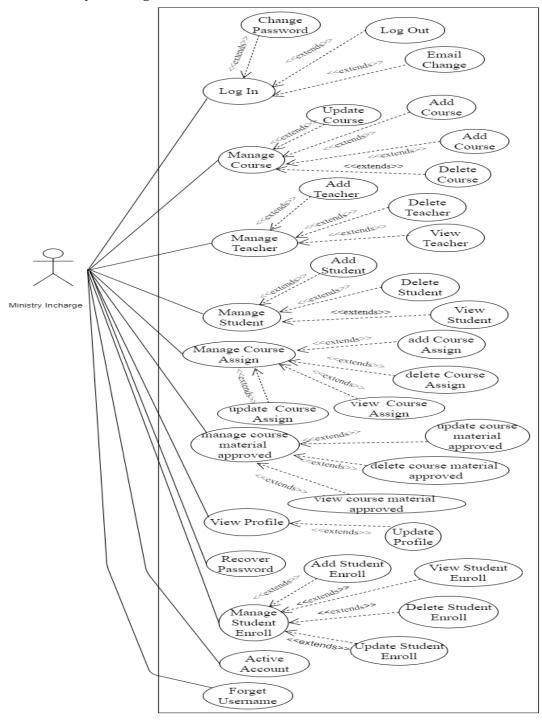


Figure 3.2: Use Case Diagram for Ministry Incharge

3.1.3 Teacher

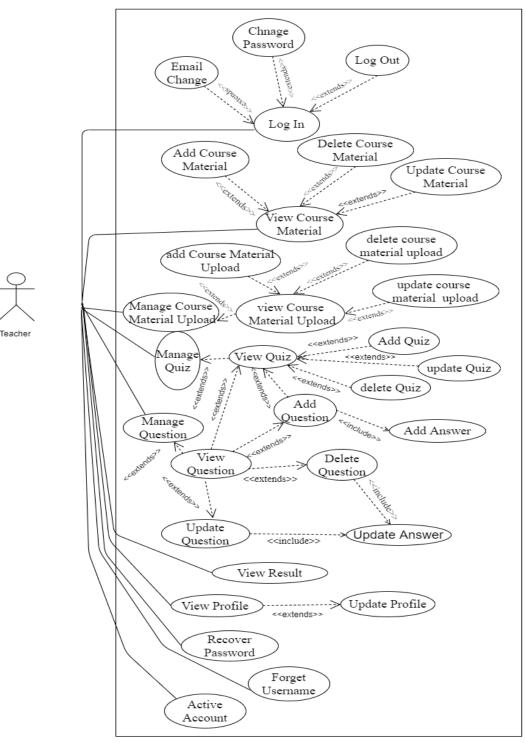


Figure 3.3: Use Case Diagram for Teacher

3.1.4 Student

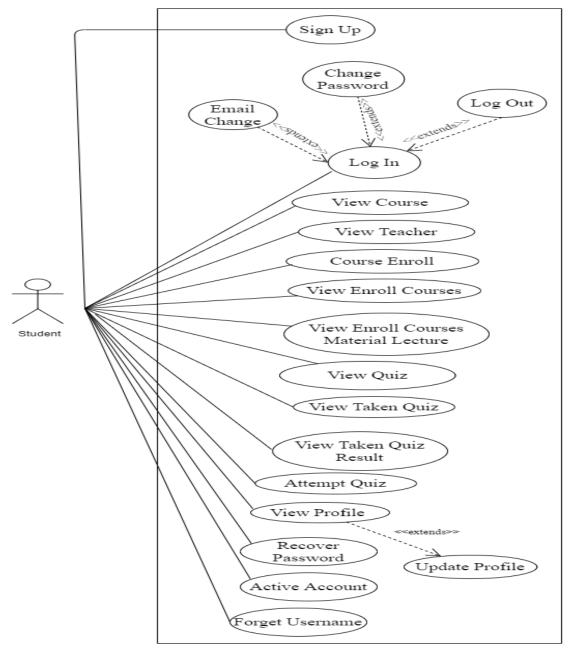


Figure 3.4: Use Case Diagram for Student

3.2 Use Case Description

3.2.1 Login for Super Admin

Use Case	Log In		
Goal	Super admin are able to log in and access the site		
Precondition	Super adr	nin account information must exist in the database	
Success End Condition	Super adu	min will enter their authentic information and can	
	log in. Su	per admin get access to their dashboard.	
Failed End Condition	Email and	l password is not valid	
Primary actor	Super Ad	min	
Secondary actor	N/A		
Trigger	Super Admin click on the "Log In" button		
	Step	Action	
	1	System displays the Log In page	
Description/Main	2	Super Admin enters their email & password	
Success scenario	3 Super Admin clicks on the "Log In" button		
	4	Super Admin successfully logged in the site	
	5 Super Admin get access to their dashboard		
	Step Branching Action		
Alternative Flows	3a Email and Password is not valid		
	4a	Super Admin cannot access the system	
Quality Requirements	Super Admin must fill up the log in field with their authentic		
	information		
Quality Requirements	N/A		

3.2.2 View Ministry for Super Admin

Use Case	View Ministry		
Goal	Super admin is able to see Ministry information in the system.		
Precondition	Super Ad	min have to log in the system	
Success End Condition	Super adr	nin successfully can view ministry information.	
Failed End Condition	Super admin is unable to view ministry information		
Primary actor	Super Admin		
Secondary actor	N/A		
Trigger	Super admin click on the "Ministry" button		
	Step	Action	
	1	Super Admin have to log in first	
	2 System shows the super admin dashboard		
Description/Main	3 Super Admin clicks "Ministry" button		
Success scenario	4	System displays View Ministry Information	
Alternative Flow	Step Branching Action		
	4a	There is no post available in the database	
Quality Requirements	N/A	1	

Use Case	Add Ministry		
Goal	Super admin is able to add ministry information in the system		
Precondition	Super Ad	min have to log in the system	
Success End Condition	Super adr	nin successfully do his work and can add ministry	
Failed End Condition	Super admin is unable to add ministry information		
Primary actor	Super Ad	min	
Secondary actor	N/A		
Trigger	Super admin click on the "New Ministry" button		
	Step	Action	
	1	Super Admin have to log in first	
	2	System show the super admin dashboard	
Description/Main	3	Super Admin clicks "Ministry" button	
Success scenario	4	System will display Ministry Information	
	5 Super admin clicks "New Ministry" button		
	6	Super Admin fills the required input fields	
	7	Successfully are add ministry in the system	
Alternative Flows	Step	Branching Action	
	6а	All the required fields are not filled yet	
Quality Requirements	N/A	1	

3.2.3 Add Ministry for Super Admin

Use Case	View Ministry Incharge		
Goal	Super admin is able to see Ministry Incharge information		
	in the system.		
Precondition	Super Ad	min have to add ministry information first	
Success End Condition	Super admin successfully can view ministry incharge information.		
Failed End Condition	Super admin is unable to view ministry incharge		
Primary actor	Super Admin		
Secondary actor	N/A		
Trigger	Super admin click on the "Ministry Incharge" button		
	Step	Action	
Description/Main	1	Super Admin have to log in first	
Success scenario	2	System shows the super admin dashboard	
	3	Super Admin clicks "Ministry Incharge" button	
	4	System displays View Ministry Incharge Information	
Alternative Flow	Step	Branching Action	
	4a	There is no post available in the database	
Quality Requirements	N/A	1	

3.2.4 View Ministry Incharge for Super Admin

Use Case	Add Ministry Incharge		
Goal	Super admin is able to add ministry incharge information in the system		
Precondition	Super Ad	min have to log in the system	
Success End Condition	Super admin successfully do his work and can add ministry incharge		
Failed End Condition	Super adn	nin is unable to add ministry incharge	
Primary actor	Super Ada	min	
Secondary actor	N/A		
Trigger	Super admin click on the "New Ministry Incharge" button		
	Step	Action	
	1	Super Admin have to log in first	
	2	System show the super admin dashboard	
Description/Main	3	Super Admin clicks "Ministry Incharge" button	
Success scenario	4	System will display Ministry Incharge Information	
	5	Super admin clicks "New Ministry Incharge" button	
	6	Super Admin fills the required input fields	
	7	Successfully are add ministry incharge in the system	
Alternative Flows	Step	Branching Action	
	ба	All the required fields are not filled yet	
Quality Requirements	N/A	1	

3.2.5 Add Ministry Incharge for Super Admin

Use Case	View Profile		
Goal	Super admin is able to see his profile information in the system.		
Precondition	Super adu	min is logged into the system	
Success End Condition	Super adu	nin successfully can view profile information.	
Failed End Condition	Super adu	min is unable to view profile information	
Primary actor	Super Admin		
Secondary actor	N/A		
Trigger	Super admin click on the "Profile" than "Profile" button		
	Step	Action	
Description/Main	1 Super Admin have to log in first		
Success scenario	2 System shows the super admin dashboard		
	3	Super Admin clicks "Profile" button	
	4	System displays View profile Information	
Alternative Flow	Step	Branching Action	
	4a	There is no profile available in the database	
Quality Requirements	N/A		

3.2.6 View Profile for Super Admin

3.2.7 Update Prome in	le for Super Admin			
Use Case	Update Profile			
Goal	Super admin is modify their profile information			
Precondition	Super admin log in first			
Success End Condition	Super adu	min successfully do his work and can updated profile		
Failed End Condition	-	min is unable to update profile		
Primary actor	Super Ad	min		
Secondary actor	N/A			
Trigger	Super adu	min click on the "Profile" than "Profile" button		
	Step	Action		
	1	System shows the super admin dashboard		
	2	Super Admin clicks "Profile" button		
Description/Main Success scenario	3	System displays user information		
	4	System shows the modifiable input fields to the super admin		
	5	Super admin modifies the field and click on "Update Profile" button		
	6 System shows "successfully update profile" notification			
	Step Branching Action			
Alternative Flows	5a Super admin must log in to update profile			
Quality Requirements	N/A			

3.2.7 Update Profile for Super Admin

Use Case	Recover Password		
Goal	Super admin can recover their password when forgotten		
Precondition	Super Admin account information must be exist in the database		
Success End Condition		recovery link is delivered to the super admin	
Success End Condition	Password recovery link is delivered to the super admin		
Failed End Condition	Super adı	min email doesn't match	
Primary actor	Super Admin		
Secondary actor	N/A		
Trigger	Super admin click on the "Forget Password" button		
	Step	Action	
	1	System displays password recovery page	
	2	Super Admin enters their email address	
Description/Main	3	Super Admin clicks on the "Next" button	
Success scenario	4	Super Admin gets password reset link	
	5	Super Admin successfully recover pass	
Alternative Flows	Step	Branching Action	
	3a	Email is not registered	
Quality Requirements	N/A	1	

3.2.8 Recover Password for Super Admin

Use Case	Active Ac	count	
Goal	Super admin can recover their account when forgotten		
Precondition	Super adı database	min account information must be exist in the	
Success End Condition	Active acc email	count recovery link is delivered to the Super admin	
Failed End Condition	Super adn	nin email doesn't match	
Primary actor	Super admin		
Secondary actor	N/A		
Trigger	Super admin click on the "Resend an activation code" button		
	Step	Action	
	1	System displays active account recovery page	
	2	Super admin enters their email address	
Description/Main	3 Super admin clicks on the "Next" button		
Success scenario	4	Super admin gets active account link	
	5	Super admin successfully recover account	
Alternative Flows	Step	Branching Action	
	3a	Email is not registered	
Quality Requirements	N/A	1	

3.2.9 Active Account for Super admin

••	. .			
Use Case	Log In			
Goal	Ministry incharge are able to log in and access the site			
Precondition	Ministry in	charge account information must exist in the database		
Success End	Ministry in	charge will enter their authentic information and can		
Condition	log in. Min	istry incharge get access to their dashboard.		
Failed End Condition	Email and	password is not valid		
Primary actor	Ministry in	charge		
Secondary actor	N/A			
Trigger	Ministry in	charge click on the "Log In" button		
	Step	Action		
	1	System displays the Log In page		
Description/Main	2	Ministry incharge enters their email & password		
Success scenario	3	Ministry incharge clicks on the "Log In" button		
	4	Ministry incharge successfully logged in the site		
	5	Ministry incharge get access to their dashboard		
	Step	Branching Action		
Alternative Flows	3a	Email and Password is not valid		
	4a	Ministry incharge cannot access the system		
Quality	Ministry incharge must fill up the log in field with their authentic			
Requirements	information			
	5aMinistry incharge must log in to update profile			
Quality	N/A			
Requirements				

3.2.10 Login for Ministry Incharge

Goal	Ministry	incharge is able to add course information in the		
	system	system		
Precondition	Ministry	incharge have to log in the system		
Success End Condition	Ministry	incharge successfully do his work and can add		
	course			
Failed End Condition	Ministry	incharge is unable to add course information		
Primary actor	Ministry	Ministry Incharge		
Secondary actor	N/A			
Trigger	Ministry	Ministry incharge click on the "New Course" button		
	Step	Action		
	1	Ministry incharge have to log in first		
	2	System show the ministry incharge dashboard		
Description/Main	3	Ministry incharge clicks "Course" button		
Success scenario	4	System will display course Information		
	5	Ministry incharge clicks "New Course" button		
	6	Ministry incharge fills the required input fields		
	7	Successfully are add course in the system		
Alternative Flows	Step	Branching Action		
	6a	All the required fields are not filled yet		
Quality Requirements	N/A			

3.2.11 Add Course for Ministry Incharge

Add Course

Use Case

Use Case	Add Teacher		
Goal	Ministry incharge is able to add teacher information in the system		
Precondition	Ministry	incharge have to log in the system	
Success End Condition	Ministry teacher	incharge successfully do his work and can add	
Failed End Condition	Ministry i	incharge is unable to add teacher information	
Primary actor	Ministry 1	Incharge	
Secondary actor	N/A		
Trigger	Ministry	incharge click on the "New Teacher" button	
	Step	Action	
	1	Ministry incharge have to log in first	
	2	System show the ministry incharge dashboard	
Description/Main	3	Ministry incharge clicks "Teacher" button	
Success scenario	4	System will display teacher Information	
	5	Ministry incharge clicks "New Teacher" button	
	6	Ministry incharge fills the required input fields	
	7	Successfully are add teacher in the system	
Alternative Flows	Step	Branching Action	
	6a	All the required fields are not filled yet	
Quality Requirements	N/A		

3.2.12 Add Teacher for Ministry Incharge

Use Case	Add Cour	Add Course Assign	
Goal	Ministry incharge is able to add teacher & add course information in the system		
Precondition	Ministry i	ncharge have to log in the system	
Success End Condition	Ministry d	incharge successfully do his work and can add	
Failed End Condition	Ministry information	incharge is unable to add course assign on	
Primary actor	Ministry I	ncharge	
Secondary actor	N/A		
Trigger	Ministry incharge click on the "New Teacher Enroll" button		
	Step	Action	
	1	Ministry incharge have to log in first	
	2	System show the ministry incharge dashboard	
Description/Main Success scenario	3 Ministry incharge clicks "Course Assign" button		
	4	System will display course assign Information	
	5 Ministry incharge clicks "New Teacher Enroll" button		
	6 Ministry incharge fills the required input fields		
	7 Successfully are add course assign in the system		
Alternative Flows	Step Branching Action		
	ба	All the required fields are not filled yet	
Quality Requirements	N/A	1	

3.2.13 Add Course Assign for Ministry Incharge

Use Case	View Cou	rse Material Approved
Goal	Ministry incharge is able to see course material approved information in the system.	
Precondition	Teacher h	ave to add course material information first
Success End Condition		incharge successfully can view course material information.
Failed End Condition	Ministry incharge is unable to view course material approved information	
Primary actor	Ministry incharge	
Secondary actor	N/A	
Trigger	Ministry incharge click on the "Course Material Approved" button	
	Step	Action
	1	Ministry incharge have to log in first
	2	System shows the ministry incharge dashboard
Description/Main Success scenario	3	Ministry incharge clicks "Course Material Approved"
	4	System displays View course material Information
Alternative Flow	Step	Branching Action
	4a	There is no post available in the database
Quality Requirements	N/A	1

3.2.14 View Course Material Approved for Ministry Incharge

Use Case	Add Student		
Goal	Ministry incharge is able to add student information in the system		
Precondition	Ministry in	ncharge have to log in the system	
Success End Condition	Ministry i student	ncharge successfully do his work and can add	
Failed End Condition	Ministry in	ncharge is unable to add student information	
Primary actor	Ministry I	ncharge	
Secondary actor	N/A		
Trigger	Ministry incharge click on the "New Student" button		
	Step	Action	
	1	Ministry incharge have to log in first	
	2	System show the ministry incharge dashboard	
Description/Main	3	Ministry incharge clicks "Student" button	
Success scenario	4	System will display student Information	
	5	Ministry incharge clicks "New Student" button	
	6	Ministry incharge fills the required input fields	
	7	Successfully are add student in the system	
Alternative Flows	Step	Branching Action	
	6a	All the required fields are not filled yet	
Quality Requirements	N/A	1	

3.2.15 Add Student for Ministry Incharge

Use Case	Add Stud	Add Student Enroll		
Goal	Ministry incharge is able to add student & add course information in the system			
Precondition	Ministry i	incharge have to log in the system		
Success End Condition	-	incharge successfully do his work and can add ourse enroll assign		
Failed End Condition	Ministry information	incharge is unable to add student course enroll on		
Primary actor	Ministry I	Incharge		
Secondary actor	N/A			
Trigger	Ministry i	Ministry incharge click on the "New Student Enroll" button		
	Step	Action		
	1	Ministry incharge have to log in first		
	2	System show the ministry incharge dashboard		
Description/Main	3	Ministry incharge clicks "Student Enroll" button		
Success scenario	4	System will display student course enroll Information		
	5 Ministry incharge clicks "New Studen button			
	6	Ministry incharge fills the required input fields		
	7	Successfully are add student enroll assign in the system		
Alternative Flows	Step	Branching Action		
	ба	All the required fields are not filled yet		
Quality Requirements	N/A			

3.2.16 Add Student Enroll for Ministry Incharge

3.2.17 Login for Teacher

Use Case	Log In		
Goal	Teacher are able to log in and access the site		
Precondition	Teacher acco	unt information must exist in the database	
Success End Condition	Teacher will	enter their authentic information and can log in.	
	Teacher get a	access to their dashboard.	
Failed End Condition	Email and pa	ssword is not valid	
Primary actor	Teacher		
Secondary actor	N/A		
Trigger	Teacher click on the "Log In" button		
	Step	Action	
	1	System displays the Log In page	
Description/Main	2	Teacher enters their email & password	
Success scenario	3	Teacher clicks on the "Log In" button	
	4 Teacher successfully logged in the site		
	5 Teacher get access to their dashboard		
	Step Branching Action		
Alternative Flows	3a	Email and Password is not valid	
	4a	Teacher cannot access the system	
Quality Requirements	Teacher must fill up the log in field with their authentic		
	information		

Use Case	View Course Material	
Goal	Teacher system.	is able to see course material information in the
Precondition	Teacher h	nave to add course material information first
Success End Condition	Teacher s	successfully can view course material information.
Failed End Condition	Teacher i	s unable to view course material information
Primary actor	Teacher	
Secondary actor	N/A	
Trigger	Teacher click on the "Course Material" button	
	Step	Action
	1	Teacher have to log in first
	2	System shows the teacher dashboard
Description/Main	3	Teacher clicks "Course Material" button
Success scenario	4	System displays view course material Information
Alternative Flow	Step	Branching Action
	4a	There is no post available in the database
Quality Requirements	N/A	

3.2.18 View Course Material for Teacher

Use Case	Add Course Material		
Goal	Teacher is able to add course material information in the system		
Precondition	Teacher h	nave to log in the system	
Success End Condition	Teacher material	successfully do his work and can add course	
Failed End Condition	Teacher i	s unable to add course material information	
Primary actor	Teacher	Teacher	
Secondary actor	N/A		
Trigger	Teacher click on the "New Course Material" button		
	Step	Action	
	1	Teacher have to log in first	
	2	System show the Teacher dashboard	
Description/Main	3	Teacher clicks "Course Material" button	
Success scenario	4	System will display course material Information	
	5	Teacher clicks "New Course Material" button	
	6	Teacher fills the required input fields	
	7	Successfully are add course material in the system	
Alternative Flows	Step	Branching Action	
	6a	All the required fields are not filled yet	
Quality Requirements	N/A	1	

3.2.19 Add Course Material for Teacher

Use Case	Add Course Material Upload		
Goal	Teacher is able to add course material upload information in the system		
Precondition	Teacher h	ave to log in the system	
Success End Condition		successfully do his work and can add course & add course material upload	
Failed End Condition	Teacher is	s unable to add course material upload information	
Primary actor	Teacher		
Secondary actor	N/A		
Trigger	Teacher c	Teacher click on the "New Upload Lecture" button	
	Step	Action	
	1	Teacher have to log in first	
	2	System show the Teacher dashboard	
Description/Main	3	Teacher clicks "Upload Lecture" button	
Success scenario	4	System will display course material upload Information	
	5	Teacher clicks "New Upload Lecture" button	
	6	Teacher fills the required input fields	
	7	Successfully are add course material in the system	
Alternative Flows	Step	Branching Action	
	6a	All the required fields are not filled yet	
Quality Requirements	N/A	1	

Use Case		Course Material Upload	
Goal		Teacher is able to Delete course material upload information in the system.	
Precondition		Teacher have to add course material upload & add material upload information first	
Success End Condition		er successfully do his work and can delete course al upload	
Failed End Condition	Teache inform	1	
Primary actor	Teache	Teacher	
Secondary actor	N/A		
Trigger	Teache	er click on the "Delete Upload Lecture" button	
	Step	Action	
	1	System shows the teacher dashboard	
	2	Teacher clicks "Upload Lecture" button	
Description/Main	3	System displays course material upload information	
Success scenario	4	Teacher clicks "Delete Upload Lecture" button	
	5	System shows the delete course material upload form	
	6	System shows "successfully delete course material upload" notification	
Alternative Flows	Step	Branching Action	
	5a	Cannot access the system	
Quality Requirements	N/A	1	

3.2.21 Delete Course Material Upload for Teacher

3.2.22 View Quiz for Teacher

Use Case	View Qui	iz
Goal	Teacher is able to see quiz information in the system.	
Precondition	Teacher h	nave to add quiz information first
Success End Condition	Teacher s	successfully can view quiz information.
Failed End Condition	Teacher i	s unable to view quiz information
Primary actor	Teacher	
Secondary actor	N/A	
Trigger	Teacher click on the "Quiz" button	
	Step	Action
	1	Teacher have to log in first
	2	System shows the teacher dashboard
Description/Main	3	Teacher clicks "Quiz" button
Success scenario	4	System displays view quiz Information
Alternative Flow	Step	Branching Action
	4a	There is no quiz post available in the database
Quality Requirements	N/A	

3.2.23 Add Quiz for Teacher

Use Case	Add Quiz	
Goal	Teacher is able to add quiz information in the system	
Precondition	Teacher h	have to log in the system
Success End Condition	Teacher s	uccessfully do his work and can add quiz
Failed End Condition	Teacher i	s unable to add quiz information
Primary actor	Teacher	
Secondary actor	N/A	
Trigger	Teacher click on the "Add quiz" button	
	Step	Action
	1	Teacher have to log in first
	2	System show the teacher dashboard
Description/Main	3	Teacher clicks "Quiz" button
Success scenario	4	System will display quiz Information
	5	Teacher clicks "Add Quiz" button
	6	Teacher fills the required input fields
	7	Successfully are add quiz in the system
Alternative Flows	Step	Branching Action
	6a	All the required fields are not filled yet
Quality Requirements	N/A	

5.2.24 Update Quiz for 10			
Use Case	Update	Quiz	
Goal	Teache	Teacher is able to update quiz information in the system.	
Precondition	Teache	r have to add quiz information first	
Success End Condition	Teache	r successfully do his work and can update quiz	
Failed End Condition	Teache	r is unable to update quiz	
Primary actor	Teache	r	
Secondary actor	N/A		
Trigger	Teache	r click on the "quiz name" button	
	Step	Action	
	1	System shows the Teacher dashboard	
	2	Teacher clicks "Quiz" button	
Description/Main Success scenario	3	System displays quiz information	
Success scenario	4	Teacher clicks "quiz name" button	
	5	System shows the modifiable input fields to the Teacher	
	6	Teacher modifies the field and click on "Save changes" button	
	7	When you update the quiz, you can view questions	
	8	System shows "successfully update quiz" notification	
	Step	Branching Action	
Alternative Flows	5a	There modifiable input fields are not filled yet	
Quality Requirements	N/A		

3.2.24 Update Quiz for Teacher

Use Case	Add Que	stion
Goal	Teacher is able to add question information in the system	
Precondition	Teacher h	have to log in the system
Success End Condition	Teacher s	successfully do his work and can add question
Failed End Condition	Teacher i	s unable to add question information
Primary actor	Teacher	
Secondary actor	N/A	
Trigger	Teacher o	click on the "Add question" button
	Step	Action
	1	System show the teacher dashboard
	2	Teacher clicks "Quiz" button
Description/Main	3	System will display quiz Information
Success scenario	4	Teacher clicks "quiz name" button
	5	Teacher clicks "Add question" button
	6	Teacher fills the required input fields
	7	Successfully are add question in the system
Alternative Flows	Step	Branching Action
	ба	All the required fields are not filled yet
Quality Requirements	N/A	

3.2.25 Add Question for Teacher

J.2.20 Aud Allswei loi 1	.2.20 Add Answer for Teacher		
Use Case	Add Ansv	Add Answer	
Goal	Teacher is able to add answer information in the system		
Precondition	Teacher h	ave to log in the system	
Success End Condition	Teacher s	uccessfully do his work and can add answer	
Failed End Condition	Teacher is	s unable to add answer information	
Primary actor	Teacher		
Secondary actor	N/A		
Trigger	Teacher c	lick on the "question name" button	
	Step	Action	
	1	System show the teacher dashboard	
	2	Teacher clicks "Quiz" button	
Description/Main Success scenario	3	System will display quiz Information	
Success scenario	4	Teacher clicks "quiz name" button	
	5	System will display question Information	
	6	Teacher clicks "question name" button	
	7	Teacher fills the required input fields	
	8	Successfully are add answer in the system	
Alternative Flows	Step	Branching Action	
	7a	All the required fields are not filled yet	
Quality Requirements	N/A		
<u> </u>			

3.2.26 Add Answer for Teacher

3.2.27 View Result for Teacher

Use Case	View Res	sult	
Goal	Teacher i	is able to see result information in the system.	
O U	i cuciler i	reacher is able to see result information in the system.	
Precondition	First stud	lent have to attempt quiz	
Success End Condition	Teacher s	successfully can view question information.	
Failed End Condition	Teacher i	is unable to view question information	
Primary actor	Teacher		
Secondary actor	N/A		
Trigger	Teacher click on the "Quiz" button		
	Step	Action	
	1	System show the teacher dashboard	
	2	Teacher clicks "Quiz" button	
Description/Main	3	Teacher clicks "View Results" button	
Success scenario	4	System displays view result Information	
Alternative Flow	Step	Branching Action	
	4a	There is no result available in the database	
Quality Requirements	N/A	1	

3.2.28 Sign Up for Student

Use Case	Sign Up	
Goal	Student can create an account successfully	
Precondition	N/A	
Success End	New accou	int is created and access his site
Condition		
Failed End Condition	Already ha	ve an account with the given email address
Primary actor	Student	
Secondary actor	N/A	
Trigger	Student click on the "Sign Up" button	
	Step	Action
	1	System displays the sign up page
Description/Main	2	Student fills up the required fields
Success scenario	3	Student clicks on the "Submit" button
	4	Student check his email to active accounts
	5	Student get access to their dashboard
	Step	Branching Action
Alternative Flows	3a	Mandatory / required input fields are not filled
		in
	4a	Student cannot access the system
Quality	Student must fill up the log in field with their authentic	
Requirements	information	

3.2.29 View Course for Student

Use Case	View Co	urse	
Goal	Student 1	s able to see course information in the system.	
Precondition			
Success End Condition	Student s	successfully can view courses information.	
Failed End Condition	Student i	s unable to view courses information	
Primary actor	Student	Student	
Secondary actor	N/A		
Trigger	Student click on the "Courses" button		
	Step	Action	
Description/Main	1	System show the user dashboard	
Success scenario	2	Student clicks "Courses" button	
	3	System displays view courses Information	
Alternative Flow	Step	Branching Action	
	2a	There is no courses available in the database	
Quality Requirements	N/A		

.2.30 Course Enroll for Student			
Use Case	Course E	nroll	
Goal	Students	Students will be able to enroll in the course	
Precondition	Student lo	og in first	
SuccessEndCondition	Student s	uccessfully do his work and can enroll course	
Failed End Condition	Student is	s unable to enroll course	
Primary actor	Student		
Secondary actor	N/A		
Trigger	Student c	Student click on the "Courses" than "Course Details" button	
	Step	Action	
	1	System shows the Student dashboard	
	2	Student clicks "Courses" button	
Description/Main Success scenario	3 System displays courses information		
Success scenario		Student clicks "Course Details" button	
	4	System shows course details to the Student	
	5	Student click on "Enroll Now" button	
	6	System shows "successfully course enroll" notification	
	Step Branching Action		
Alternative Flows	5a	Student must log in in the system	
Quality Requirements	N/A	1	
	1		

3.2.30 Course Enroll for Student

5.2.51 view Course Ma			
Use Case	View Co	View Course Material Lecture	
Goal	Students	Students can view enroll course material lecture	
Precondition	Student v	vill be able to enroll in the course	
SuccessEndCondition		Student successfully do his work and can view enroll course material lecture	
Failed End Condition	Student is	s unable to view enroll course material lecture	
Primary actor	Student		
Secondary actor	N/A		
Trigger	Student c	Student click on the "Courses" than "Course Details" button	
	Step	Action	
	1	System shows the Student dashboard	
	2	Student clicks "Courses" button	
Description/Main Success scenario	3	System displays courses information	
Success scenario	4	Student clicks "Course Details" button	
	5	System shows course details to the Student	
	6	Student click on "Go To Course" button	
	7 System shows view enroll courses material lecture		
	Step Branching Action		
Alternative Flows	6a	Student must be enroll course in in the system	
Quality Requirements	N/A		
l			

3.2.31 View Course Material Lecture for Student

3.2.32 View Quiz for St	uuent		
Use Case	View Quiz		
Goal	Students will be able to view quiz in the course		
Precondition	Student will be able to enroll in the course		
Success End	Student successfully do his work and can view quiz course		
Condition			
Failed End Condition	Student is unable to view quiz course		
Primary actor	Student		
Secondary actor	N/A		
Trigger	Student click on the "My Accounts" button		
	Step	Action	
Description/Main Success scenario	1	System shows the Student dashboard	
	2	Student clicks "My Accounts" button	
	3	Student clicks "My Quiz" button, than clicks "New" button	
	4	System displays user view quiz information	
	Step	Branching Action	
Alternative Flows	4a	Student will be able to enroll in the course	
Quality Requirements	N/A		

3.2.32 View Quiz for Student

3.2.33 Attempt Quiz for Student				
Use Case	Attempt Quiz			
Goal	Students will be able to attempt quiz in the course			
Precondition	Student will be able to enroll in the course			
SuccessEndCondition	Student successfully do his work and can attempt quiz course			
Failed End Condition	Student is unable to attempt quiz course			
Primary actor	Student			
Secondary actor	N/A			
Trigger	Student click on the "My Accounts" button			
	Step	Action		
Description/Main	1	System shows the Student dashboard		
Success scenario	2	Student clicks "My Accounts" button		
	3	Student clicks "My Quiz" button, than clicks "New" button		
	4	System displays user view quiz information		
	5	Student clicks "Start" button. Quiz is start.		
	6	Finishing quiz system auto show result		
	Step	Branching Action		
Alternative Flows	4a	Student will be able to enroll in the course		
Quality Requirements	N/A			

3.2.33 Attempt Quiz for Student

	54 View Taken Quiz Result for Student			
Use Case	View Taken Quiz Result			
Goal	Students will be able to view taken quiz results in the course			
Precondition	Student will be able to enroll in the course			
SuccessEndCondition	Student successfully do his work and can view taken quiz result course			
FailedEndCondition	Student is unable to view taken quiz result course			
Primary actor	Student			
Secondary actor	N/A			
Trigger	Student click on the "My Accounts" button			
	Step	Action		
Description/Main Success scenario	1	System shows the Student dashboard		
	2	Student clicks "My Accounts" button		
	3	Student clicks "My Quiz" button, than clicks "Taken" button		
	4	System displays user view taken quiz result information		
	Step	Branching Action		
Alternative Flows	4a	Student will be able to enroll in the course		
Quality Requirements	N/A			

3.2.34 View Taken Quiz Result for Student

- **3.3 Activity Diagram**
- 3.3.1 Super Admin

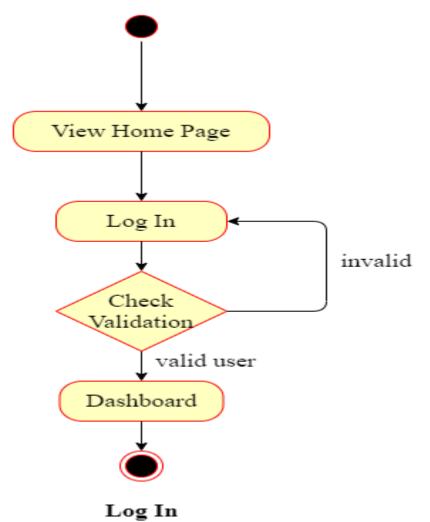


Figure 3.5: Activity Diagram for Super Admin Log In

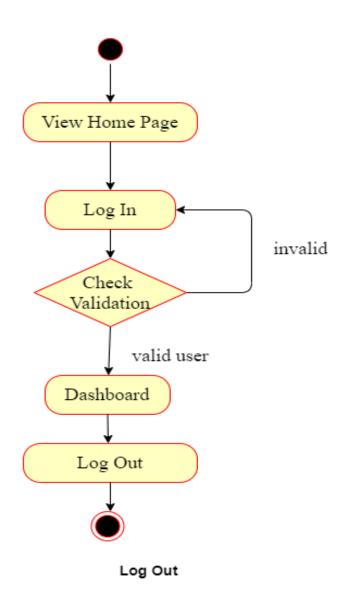


Figure 3.6: Activity Diagram for Super Admin Log Out

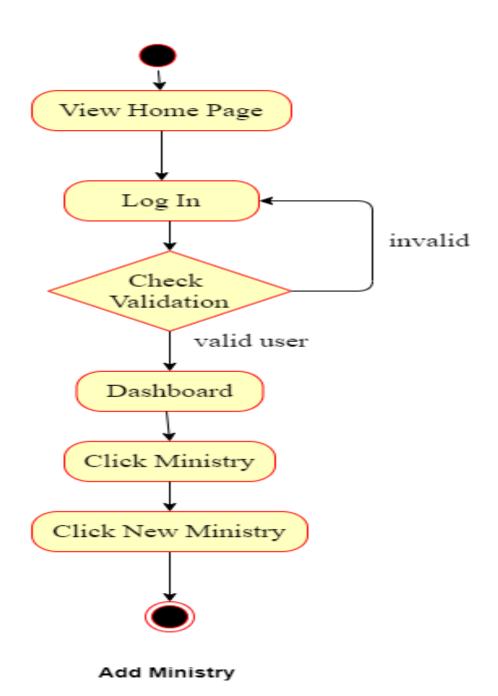
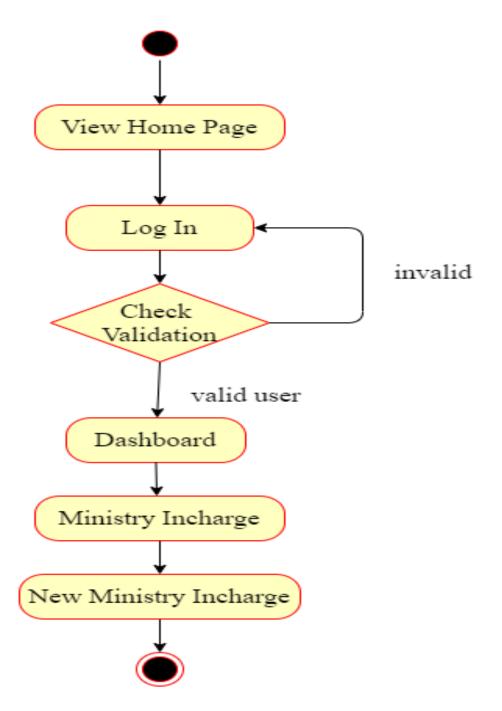
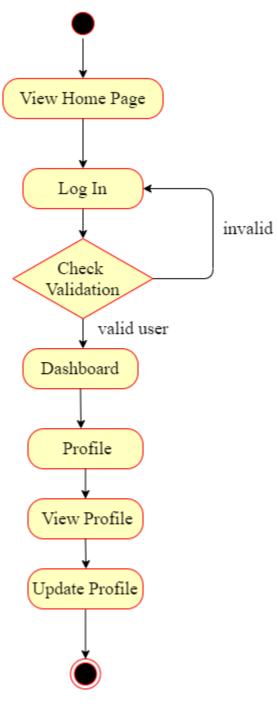


Figure 3.7: Activity Diagram for Super Admin Add Ministry



Add Ministry Incharge for super admin

Figure 3.8: Activity Diagram for Super Admin Add Ministry Incharge



Update Profile

Figure 3.9: Activity Diagram for Super Admin Update Profile

3.3.2 Ministry Incharge

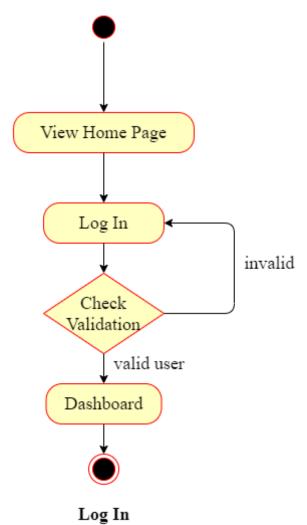


Figure 3.10: Activity Diagram for Ministry Incharge Log In

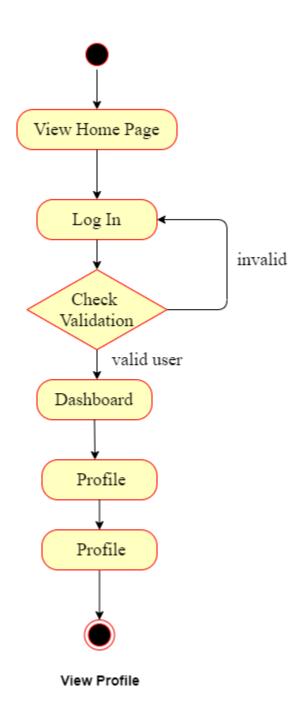
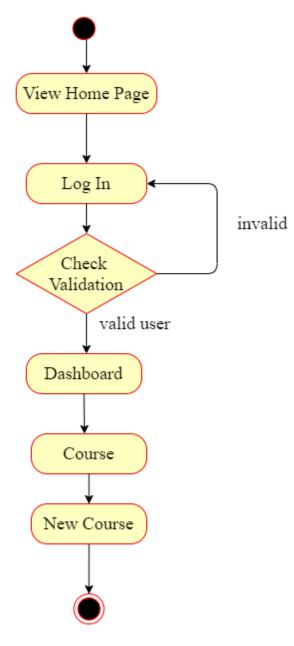
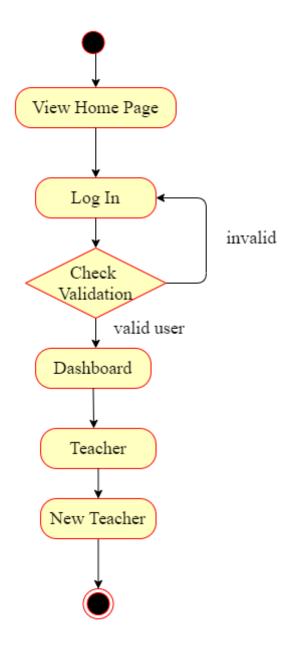


Figure 3.11: Activity Diagram for Ministry Incharge View Profile



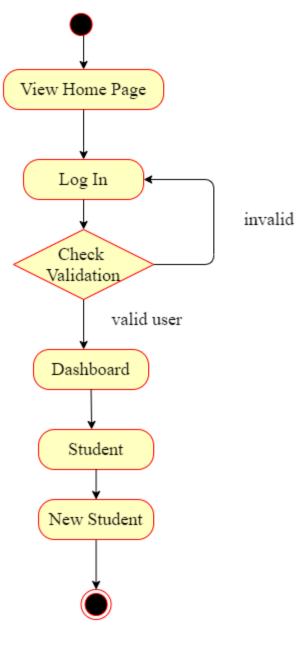
add Course for Ministry Incharge

Figure 3.12: Activity Diagram for Ministry Incharge Add Course



Add Teacher

Figure 3.13: Activity Diagram for Ministry Incharge Add Teacher



Add Student

Figure 3.14: Activity Diagram for Ministry Incharge Add Student

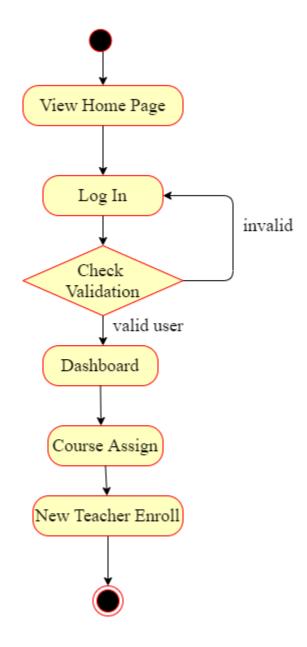




Figure 3.15: Activity Diagram for Ministry Incharge Add Course Assign

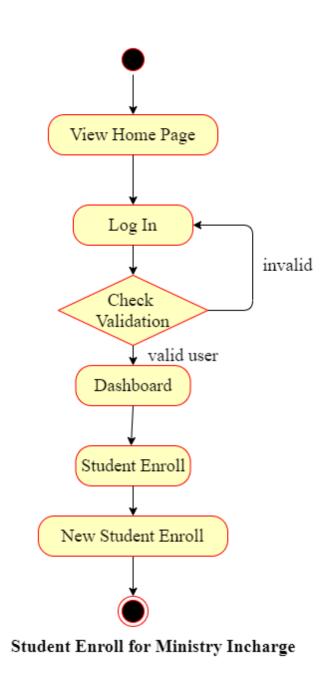


Figure 3.16: Activity Diagram for Ministry Incharge Add Student Enroll

3.3.3 Teacher

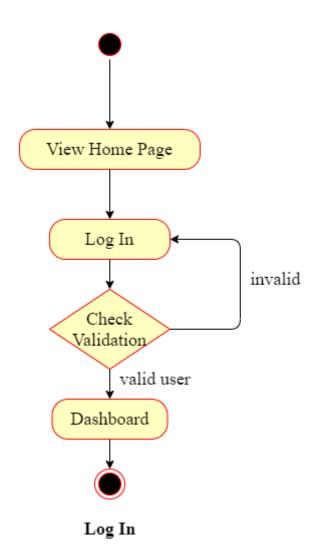
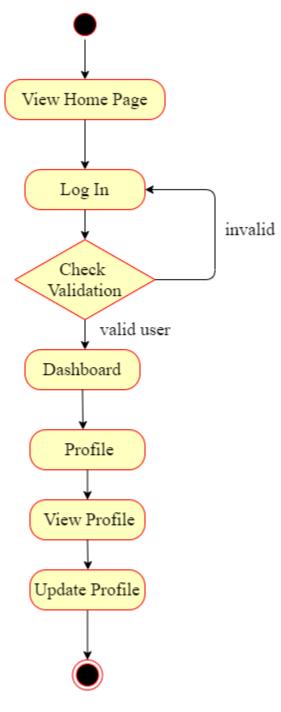
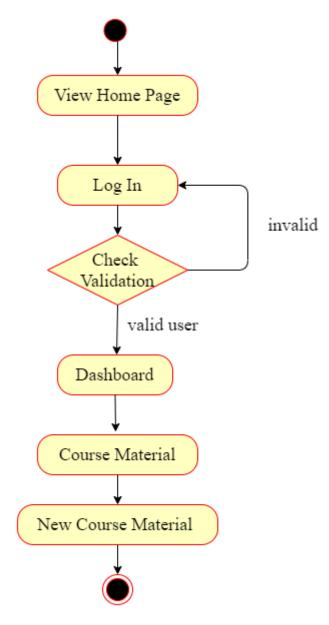


Figure 3.17: Activity Diagram for Teacher Log In



Update Profile

Figure 3.18: Activity Diagram for Teacher Update Profile



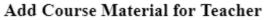
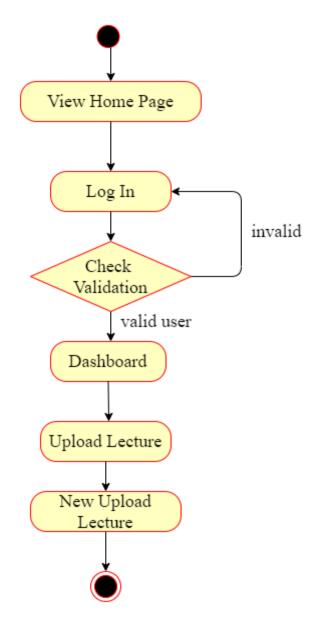
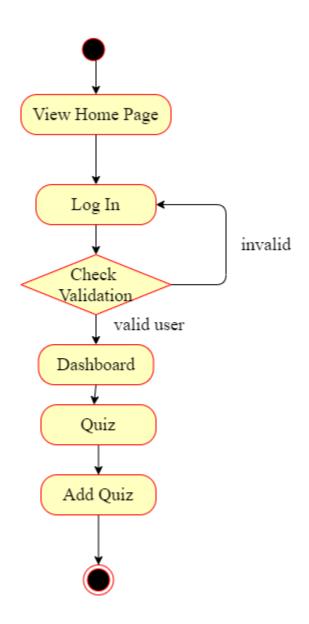


Figure 3.19: Activity Diagram for Teacher Add Course Material



Add Course Material Upload

Figure 3.20: Activity Diagram for Teacher Add Course Material Upload



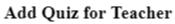
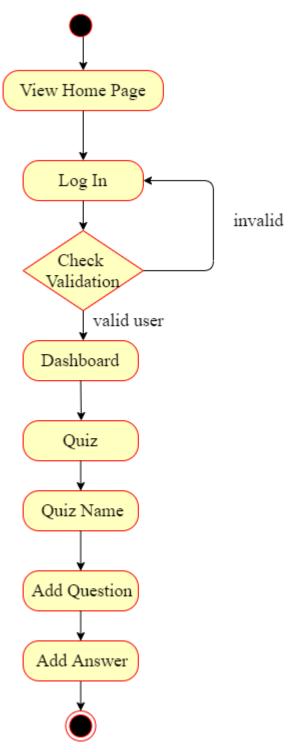


Figure 3.21: Activity Diagram for Teacher Add Quiz



Add Question & Answer for Teacher

Figure 3.22: Activity Diagram for Teacher Add Question & Answer

3.3.4 Student

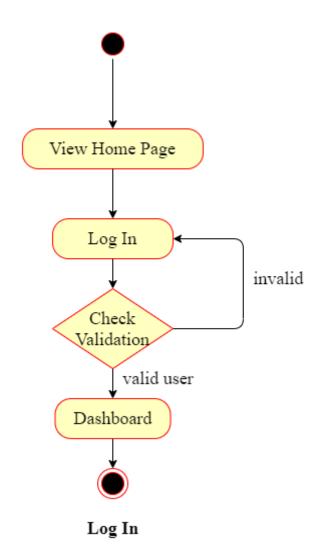


Figure 3.23: Activity Diagram for Student Log In

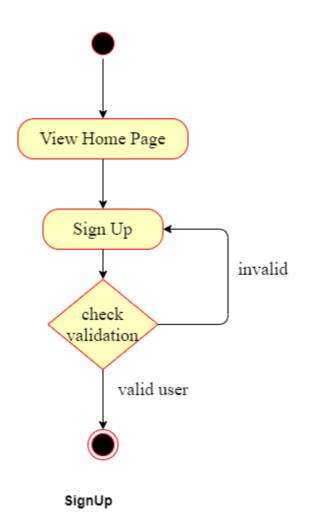


Figure 3.24: Activity Diagram for Student Sign Up

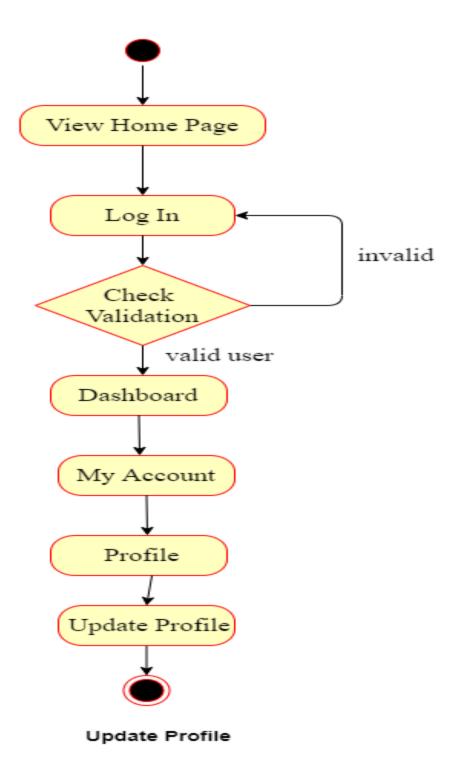
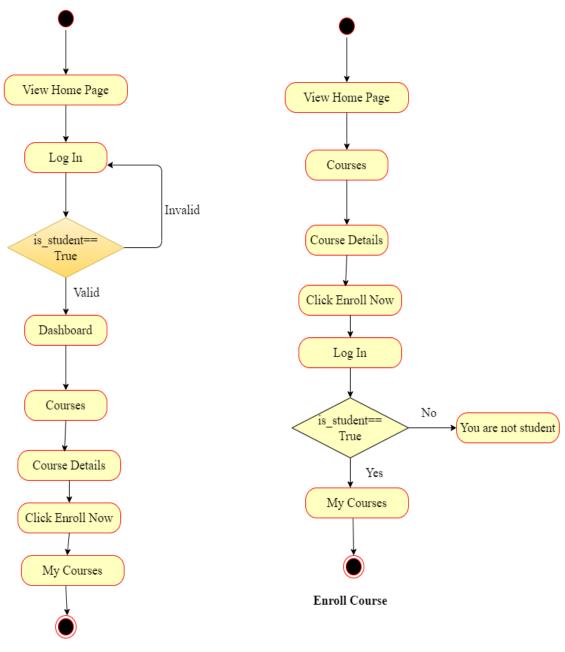
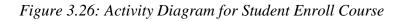
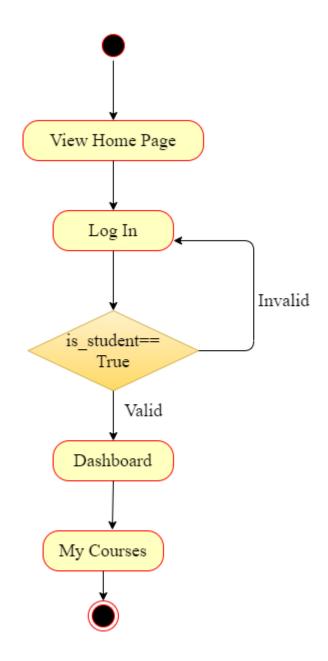


Figure 3.25: Activity Diagram for Student Update Profile









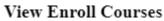
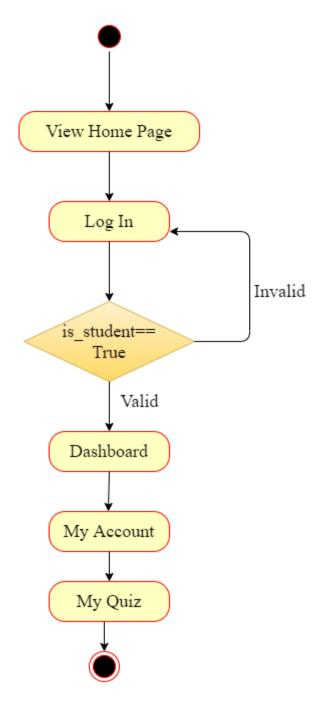
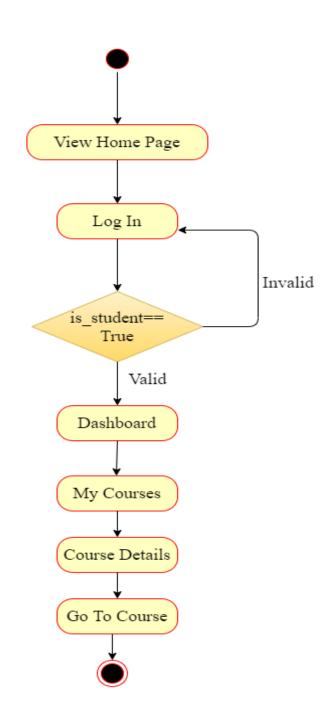


Figure 3.27: Activity Diagram for Student View Enroll Courses



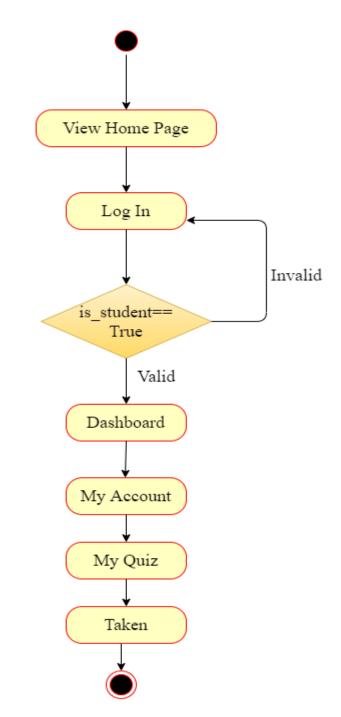
View Quiz

Figure 3.28: Activity Diagram for Student View Quiz



View Enroll Courses Material Lecture

Figure 3.29: Activity Diagram for Student View Enroll Course Material Lecture



View Taken Quiz & View Taken Quiz Result

Figure 3.30: Activity Diagram for Student View Taken Quiz & View Taken Quiz Result

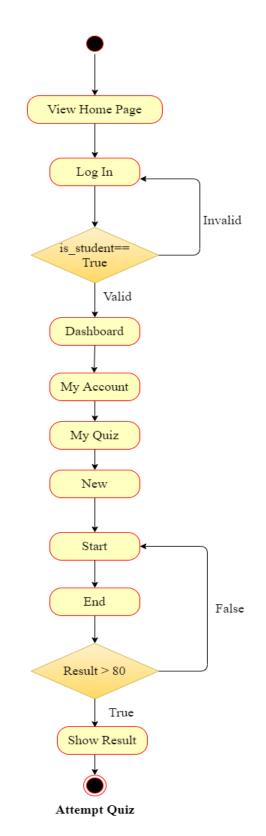
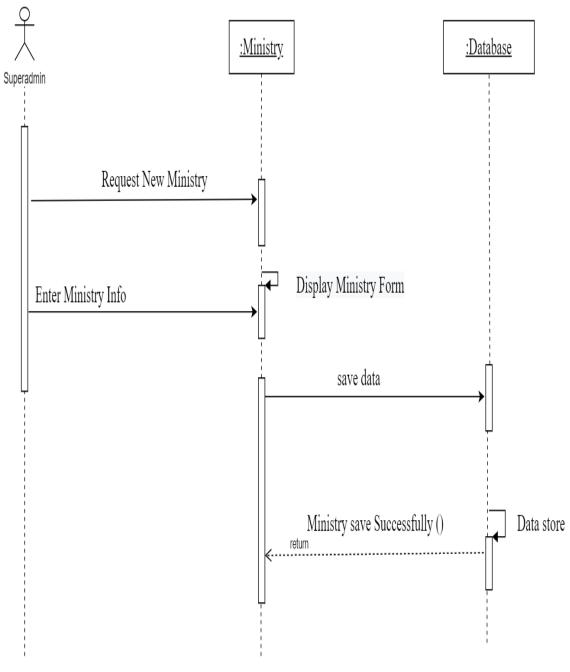


Figure 3.31: Activity Diagram for Student Attempt Quiz

3.4 Sequence Diagram



Add Ministry For SuperAdmin

Figure 3.32: Add Ministry for Super Admin

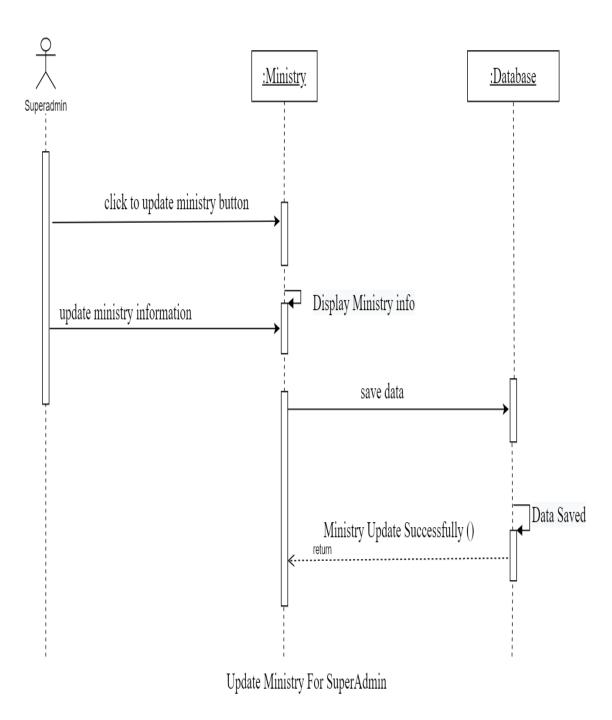
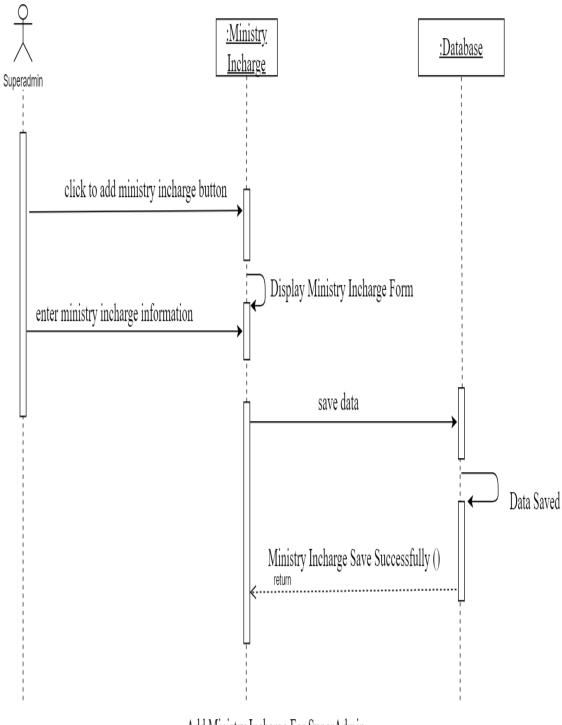


Figure 3.33: Update Ministry for Super Admin



Add Ministry Incharge For SuperAdmin

Figure 3.34: Add Ministry Incharge for Super Admin

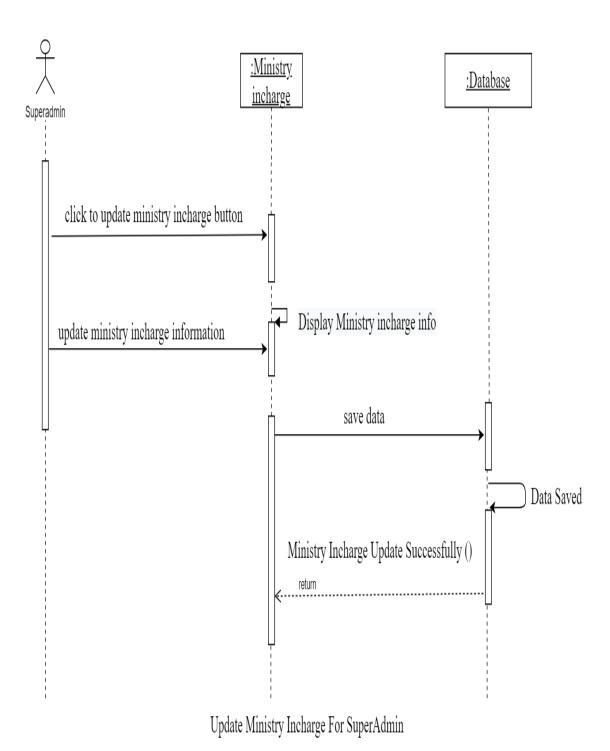
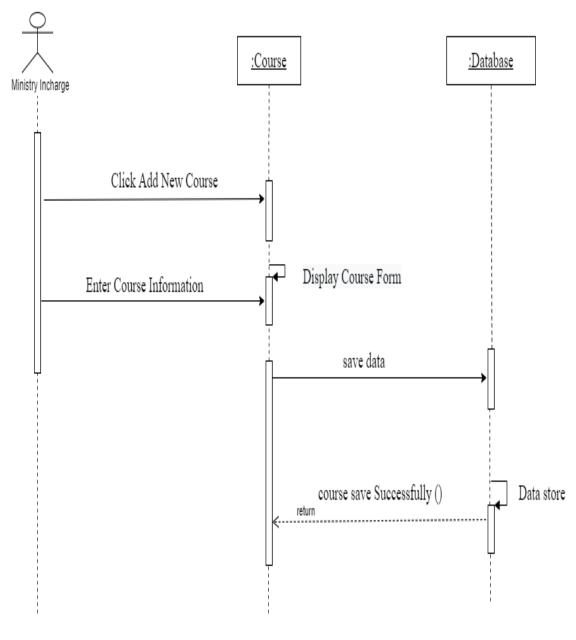
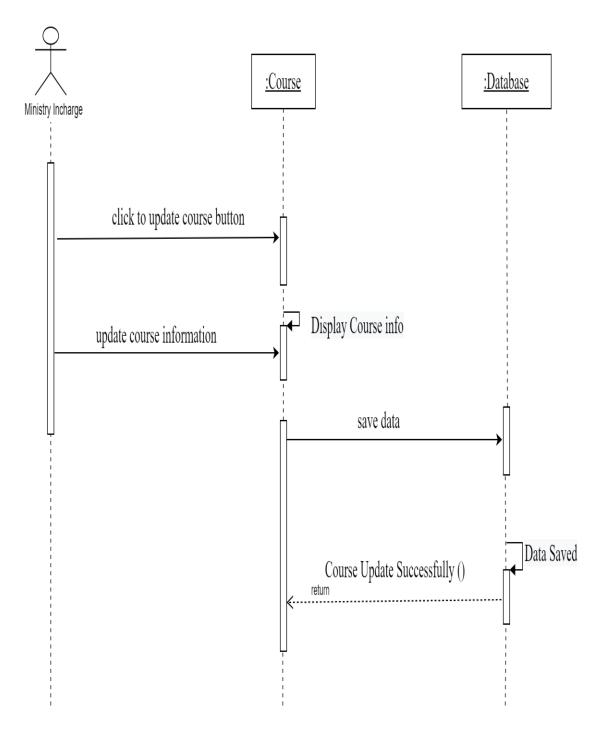


Figure 3.35: Update Ministry Incharge for Super Admin



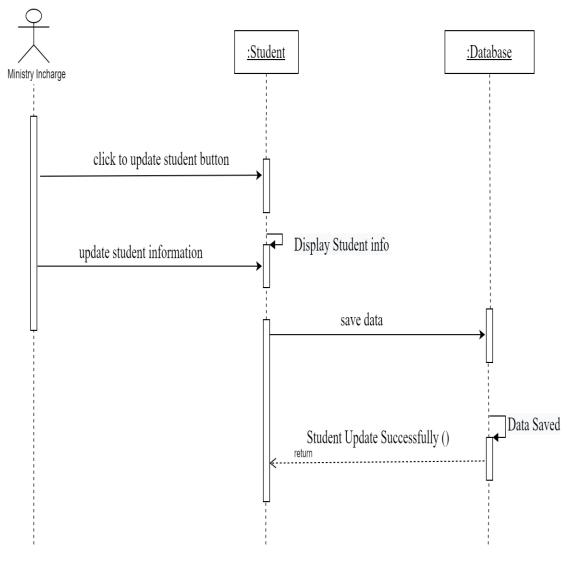
Add Course for Ministry Incharge

Figure 3.36: Add Course for Ministry Incharge



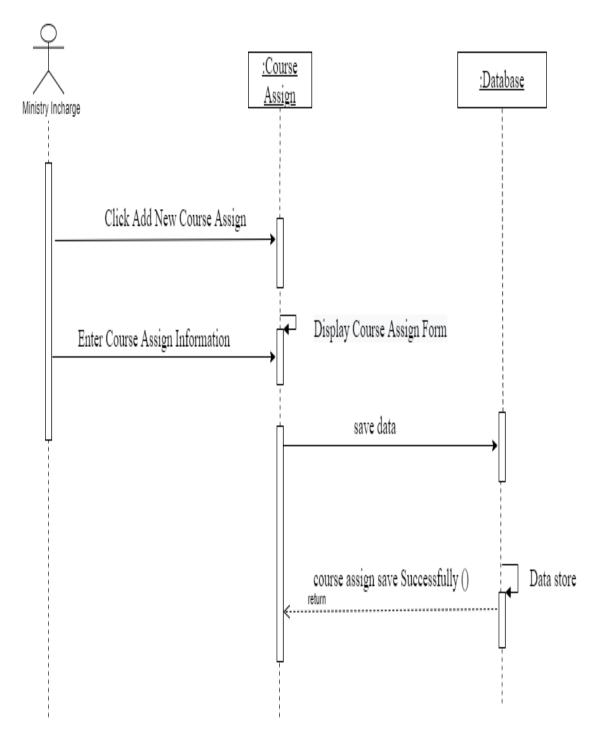
Update Course For Ministry Incharge

Figure 3.37: Update Course for Ministry Incharge



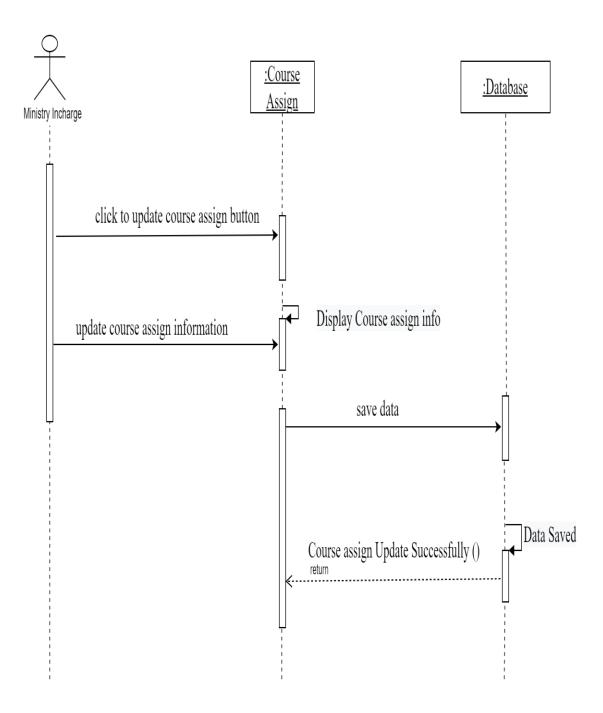
Update Student For Ministry Incharge

Figure 3.38: Add Teacher for Ministry Incharge



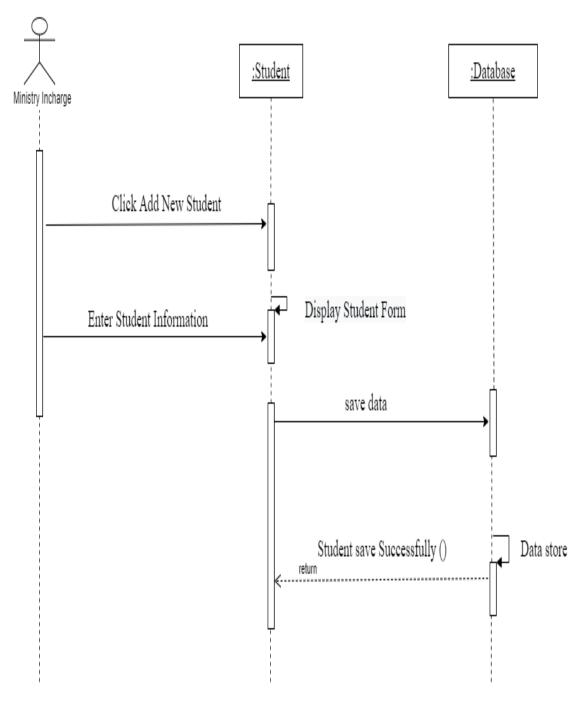
Add Course assign for Ministry Incharge

Figure 3.39: Add Course Assign for Ministry Incharge



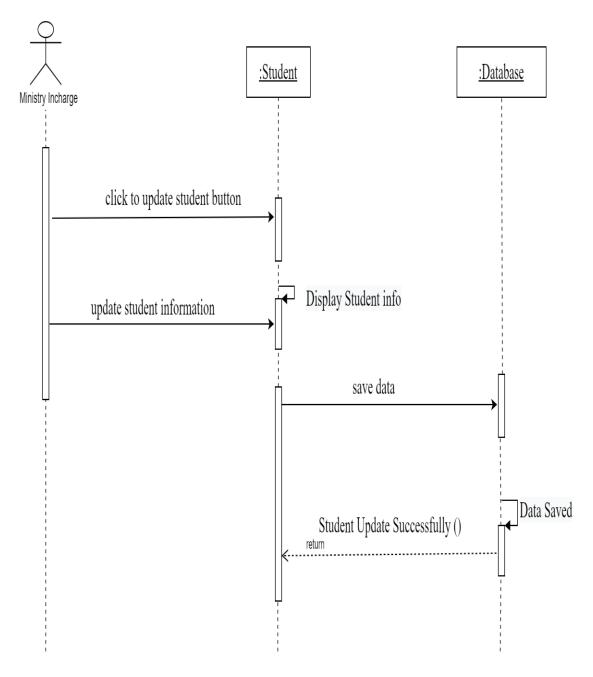
Update Course Assign For Ministry Incharge

Figure 3.40: Update Course Assign for Ministry Incharge



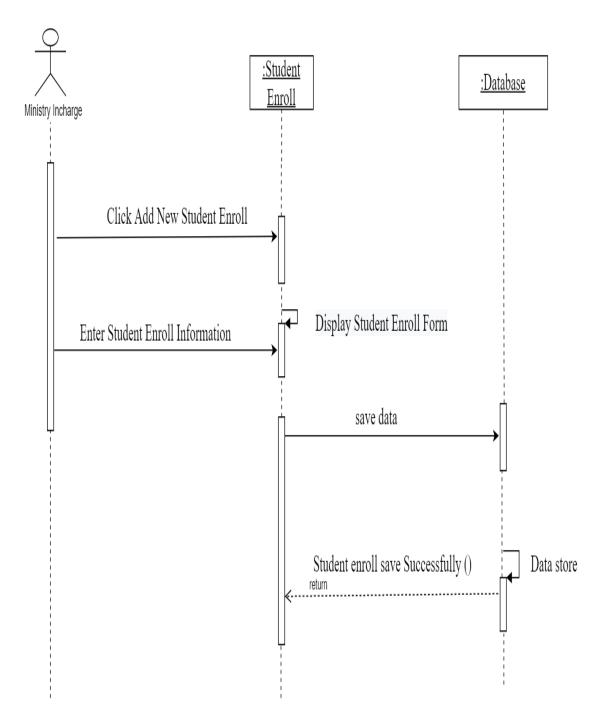
Add Student for Ministry Incharge

Figure 3.41: Add Student for Ministry Incharge



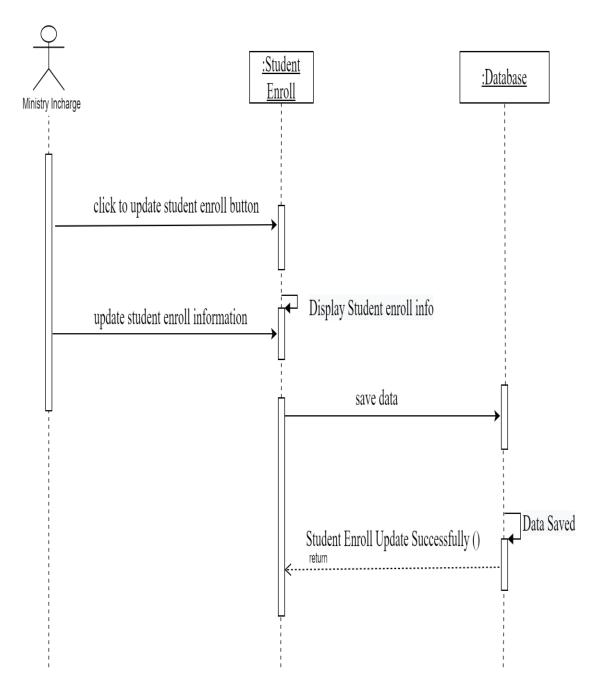
Update Student For Ministry Incharge

Figure 3.42: Update Student for Ministry Incharge



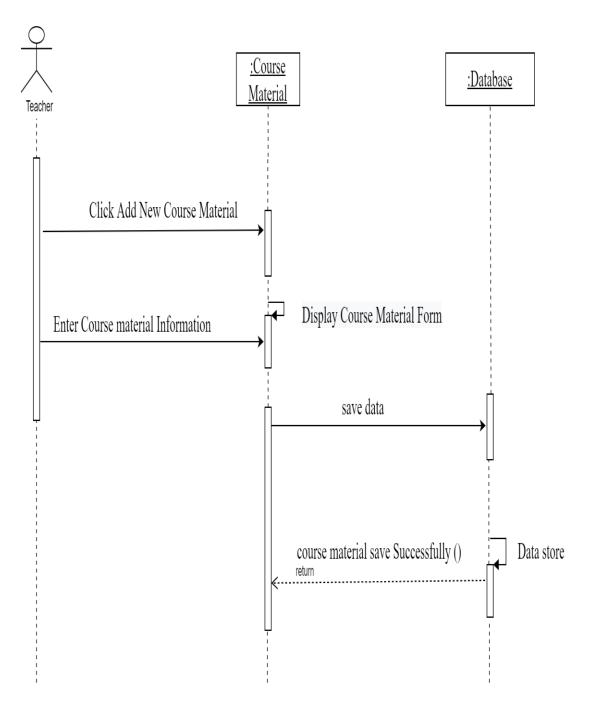
Add Student Enroll for Ministry Incharge

Figure 3.43: Add Student Enroll for Ministry Incharge



Update Student Enroll for Ministry Incharge

Figure 3.44: Update Student Enroll for Ministry Incharge



Add Course Material for Teacher

Figure 3.45: Add Course Material for Teacher

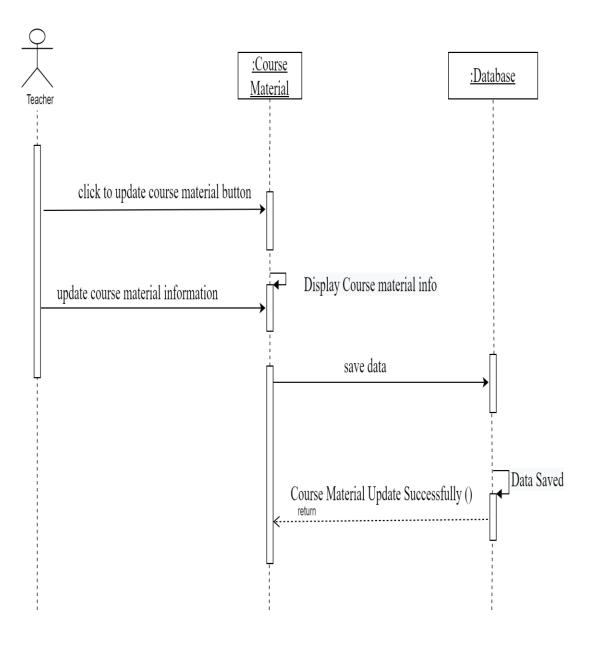
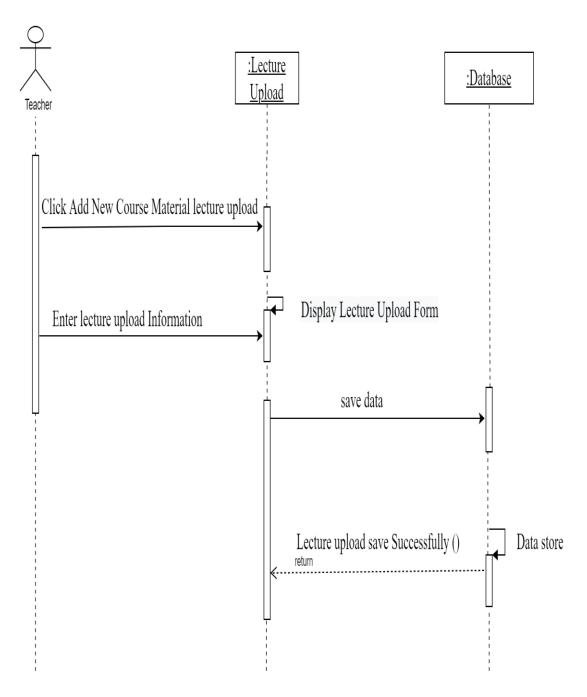


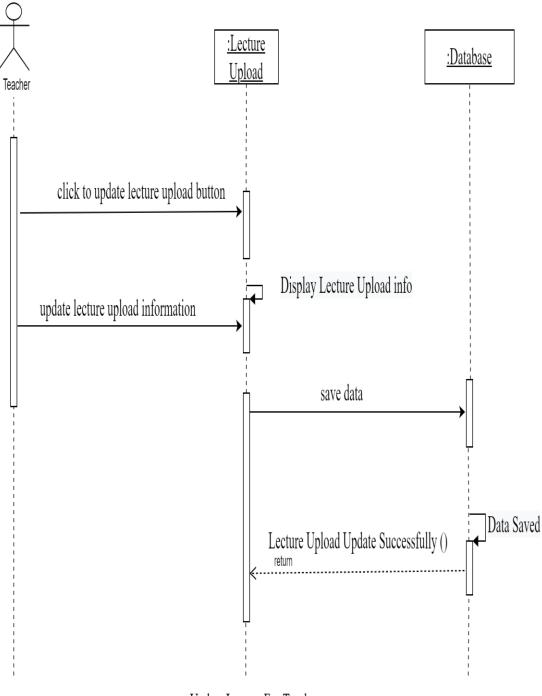


Figure 3.46: Update Course Material for Teacher



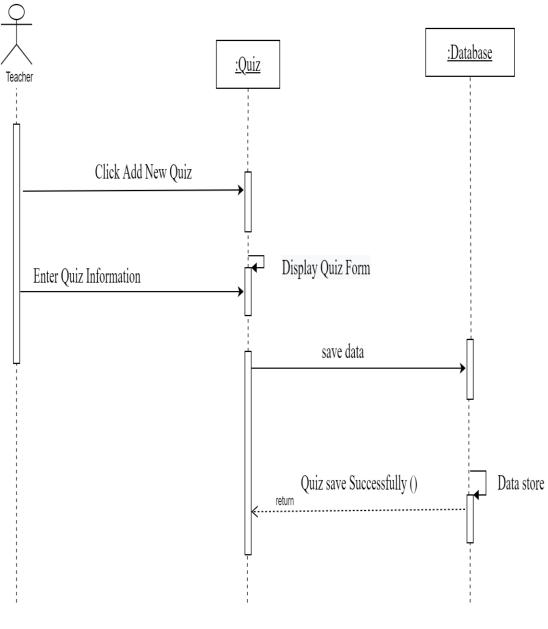
Add Lecture Upload for Teacher

Figure 3.47: Add Lecture Upload for Teacher



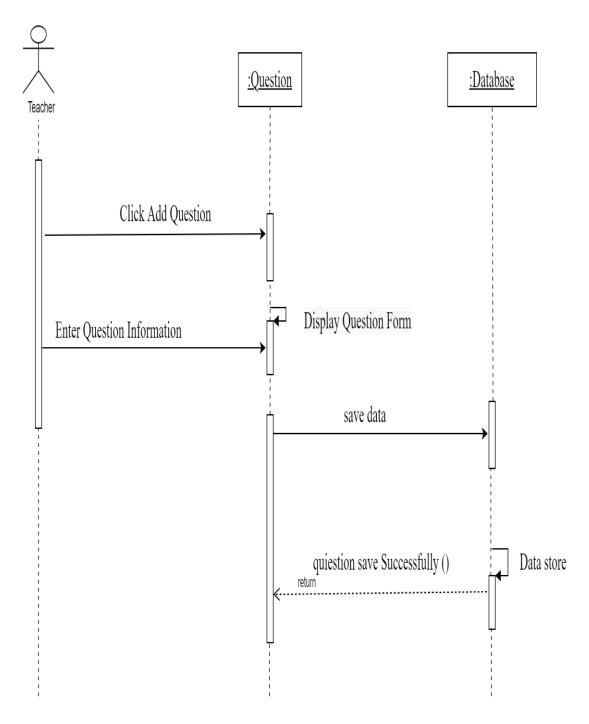
Update Lecture For Teacher

Figure 3.48: Update Lecture for Teacher



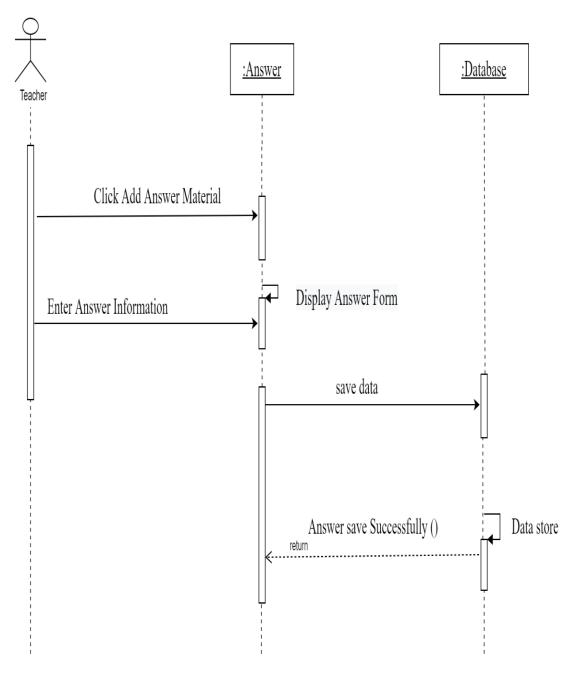
Add Quiz for Teacher

Figure 3.49: Add Quiz for Teacher



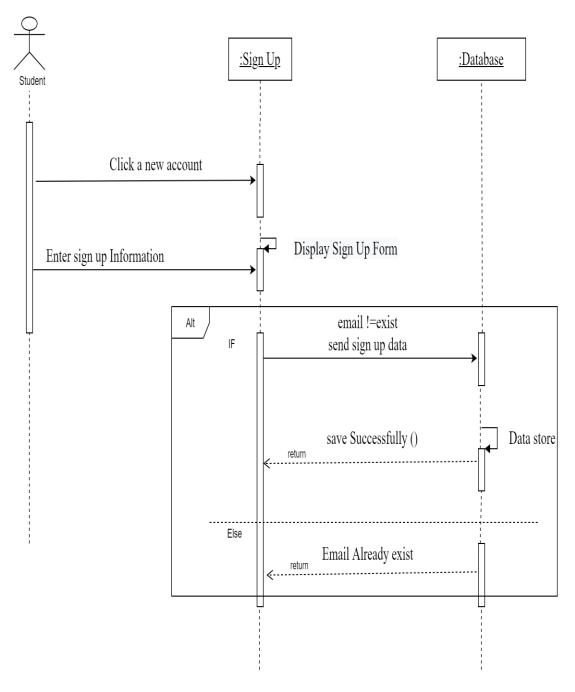
Add Question for Teacher

Figure 3.50: Add Question for Teacher



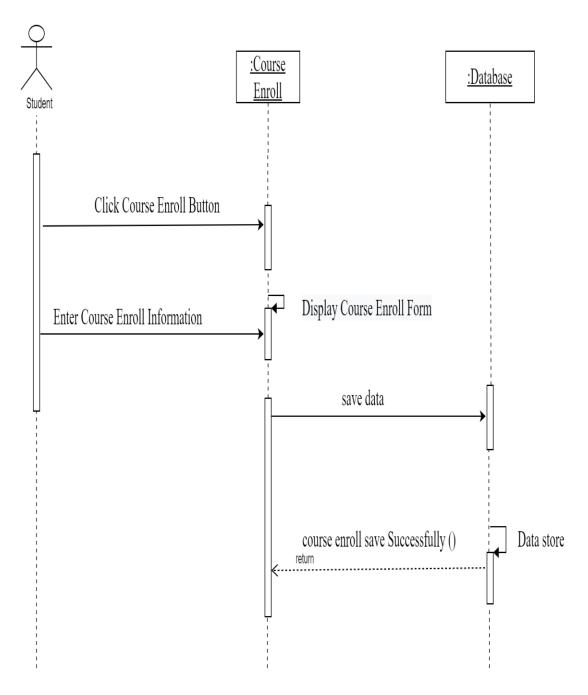
Add Answer for Teacher

Figure 3.51: Add Answer for Teacher



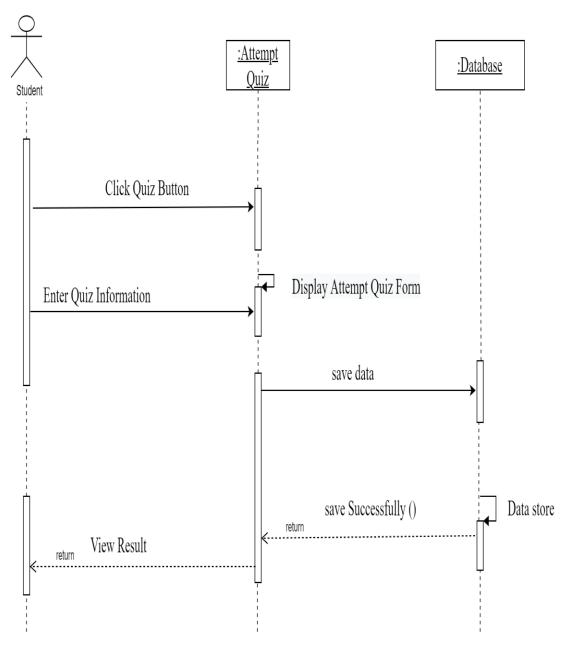
Sign Up for Studnet

Figure 3.52: Sign Up for Student



Course Enroll for Teacher

Figure 3.53: Course Enroll for Student



Attempt Quiz for Teacher

Figure 3.54: Attempt Quiz for Student

Chapter 4

System Design Specification (SDS)

4.1 Development Tools and Technologies

4.1.1 User Interface Technology

4.1.1.1 HTML

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

4.1.1.2 CSS

Cascading Style Sheet (CSS) is style sheet language used for describing the presentation of a document within a markup language like HTML. It is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript

4.1.1.3 JavaScript

JavaScript (JS) is a high level, just-in-time compiled, object-oriented programming language that conforms to the ECMAScript specification. Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web. It enables interactive web pages and is an essential part of web applications

4.1.2 Implementation Tools and Platform

4.1.2.1 Editor

A source-code editor is text editor program designed specifically for editing source code of computer program. It is a fundamental programming tool, as the fundamental job of programmers is to write and edit source code. "E-learning" is developed using Pycharm text editor.

4.1.2.2 Database

A database is an organize collection data, generally stored and accessed electronically from a computer system. The database management system (DBMS) is the software that interacts with end users, applications, and the database itself to capture and analyze the data. "E-learning" is built on Sqlite3 database.

4.2 Class Diagram

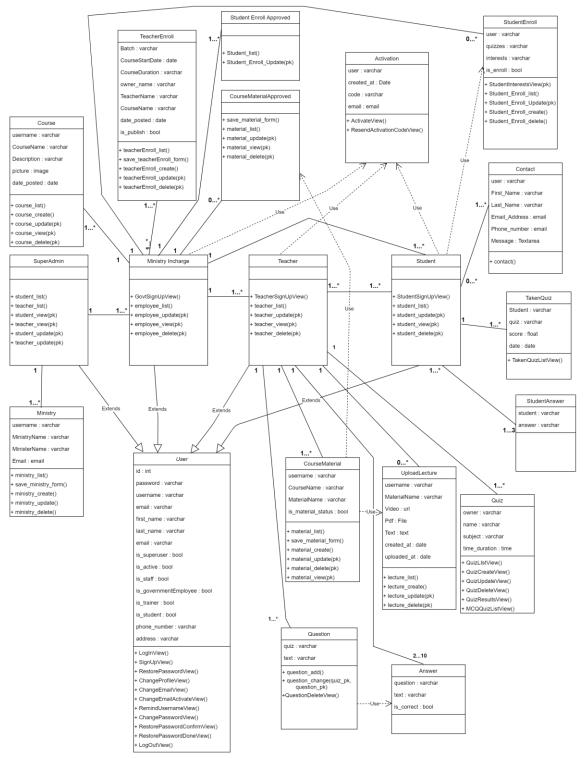


Figure 4. 1: Class Diagram

4.3 ERD Diagram

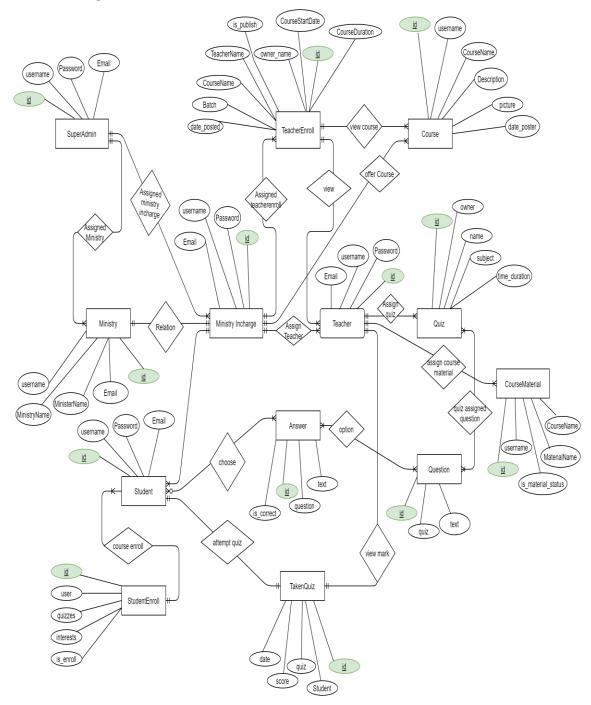


Figure 4. 2: ERD Diagram

Chapter 5

System Test

5.1 Test Cases

5.1.1 Account Sign Up

Test Case: 5.1.1	Test case Name: Account Sign		
	Up		
System: E-Learning	Subsystem:		
Designed by: Md. Joy Islam	Design Date:		
Executed by:	Execution Date:		

Description: A user must be registered to gain access to the student dashboard. To sign up an account, a user must provide a valid email address and password

Pre-condition:

- Email must be unique
- Your password cannot be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Step	Email	Password	Response	Pass/Fa il	Comme nt
1	joyislam1954@gmail.com	171-35- 1954	Registration successful	Pass	
2	joy35-1954@diu.edu.bd	17135195 4	Registration successful	Pass	
3	joyislam1954job@gamil.c om	Joy	Password must contain at least 8 characters	Fail	

5.1.2 Log In

Test Case: 5.1.2	Test case Name: Log In
System: E-Learning	Subsystem:
Designed by: Md. Joy Islam	Design Date:
Executed by:	Execution Date:

Description: Registered user must login to access their dashboard. The system will

check for authentication and authorization.

Pre-condition:

- User must input valid email and password
- User should registration first
- Let email be joyislam1954@diu.edu.bd and password:171351954

Step	Email	Password	Response	Pass/Fail	Comment			
1	joy35-	171351954	Login	Pass				
	1954@diu.edu.bd		successful					
2	joy35-	17131954	Wrong	Fail				
	1954@diu.edu.bd		email or					
			password					
3	joy351954@diu.edu.bd	171351954	Wrong	Fail				
			email or					
			password					
Post-	Post-condition: User can access to the system							

5.1.3 Add Ministry Incharge

Test	Case: 5.1.3		Test case	Name: Ad	ld Ministry
			Incharge		
Syste	m: E-Learning		Subsystem:		
Desig	ned by: Md. Joy Islam		Design Date	5:	
Execu	ited by:		Execution 1	Date:	
Descr	iption: Super Admin can ad	ld minis	try incharge		
Pre-c	ondition:				
•	Super Admin must be log	in			
Step	Action		Response	Pass/Fail	Comment
1	Super Admin fill up a	all the	System add a	Pass	
	required files and click on	"Save	new ministry		
	Ministry Incharge" button		incharge and		
			display it to the		
			super admin.		
2	Super Admin does not fill	up all	All required files	Fail	
	the required files		must be filled up		
Post-	condition: a new ministry in	charge	will added	<u> </u>	

5.1.4 View Ministry Incharge

Test	Case: 5.1.4	Test case	Name: V	View Ministry			
		Incharge					
Syste	System: E-Learning Subsystem:						
Desig	med by: Md. Joy Islam	Design Dat	e:				
Execu	uted by:	Execution	Date:				
Desci	iption: Super Admin can view min	istry incharge					
Pre-c	ondition:						
•	Super Admin must be log in						
•	Super admin must have at least or	ne ministry incharge	e to display				
Step	Action	Response	Pass/Fai	l Comment			
1	Super Admin click to "ministry	System display	Pass				
	incharge" button	ministry					
		incharge					
Post-	Post-condition: system ministry incharge will be displayed to the super admin						

5.1.5 Log Out

Test	Case: 5.1.5	Test case Name: Log Out					
Syste	m: E-Learning	Subsystem:	:				
Desig	med by: Md. Joy Islam	Design Dat	e:				
Execu	ited by:	Execution	Date:				
Descr	iption: user log out from their dash	lboard					
Pre-c	ondition: The user must be logged in to the	system					
Step	Action	Response	Pass/Fail	Comment			
1	Super Admin click to "Log Out"	System display	Pass				
	button	Home page					
Post-	Post-condition: user log out from their dashboard						

Chapter 6

Conclusion

6.1 GitHub Link

The source code of "Final-Semester-Project" can be found at GitHub.

GitHub Link: https://github.com/joy1954islam/Final-Semester-Project

6.2 Limitations

In my project, there is a leaking filed named "course certificate".

6.3 Future Scope

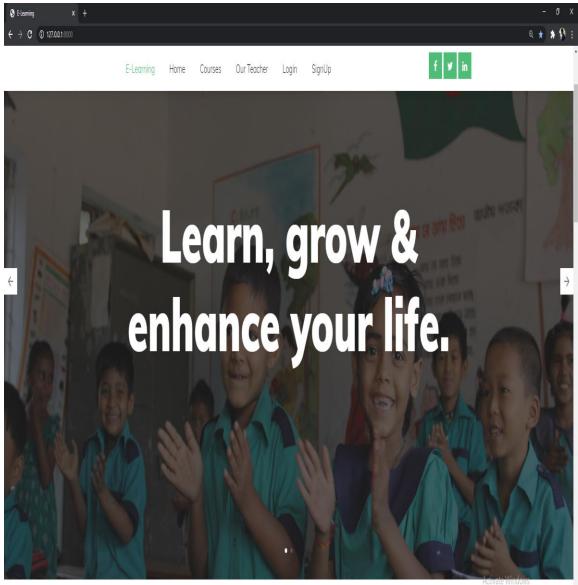
In future, it is necessary for my project to solve the limitation issue that I have mentioned previously.

Chapter 7

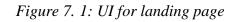
UI Design

LANDING PAGE

This is the Landing page of the project. When a user enters the system, they can see this landing page.



Go to Settings to activate Windows.



©Daffodil International University

View All Courses

When a user visit this site user view all courses in the system

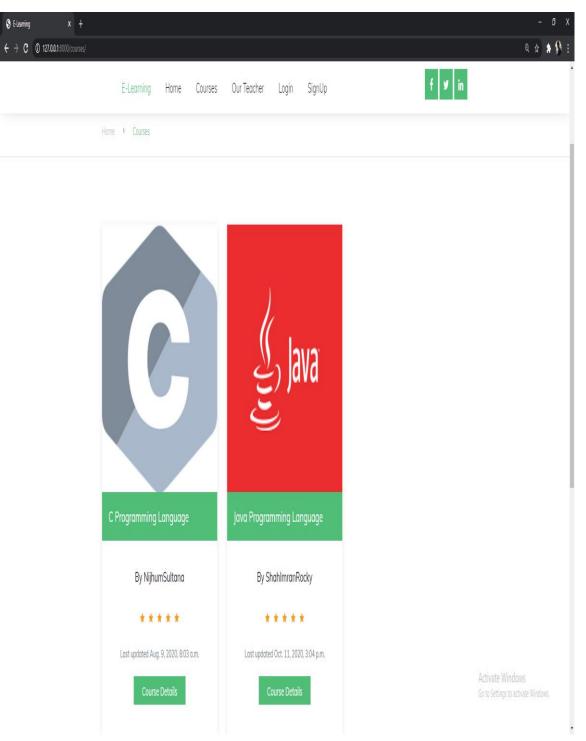
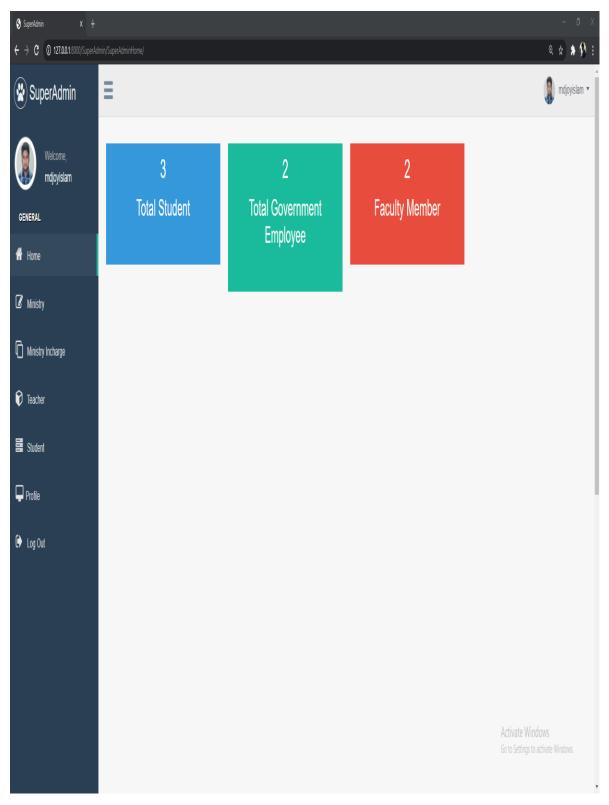


Figure 7. 2: UI for view all Courses

Log In Page

€ Elearning x + ← → C © 127.0.01.0000/accounts/log-in/		- 5 X Q & \$ }
E-Learning Home Cou	rses Our Teacher Login SignUp	f y in
	Log In	Elf?
Home 🔰 Login		
	Email*	
	Password*	
	C Remember me	
	Log In	
	First time here? Create new Account	
	Forgot your possword?	
	Forgat your username?Resend an activation code	
		Activate Windows
		Activate Windows Go to Settings to activate Windows.
		,

Figure 7. 3: UI for Log In



Super Admin Dashboard

Figure 7. 4: UI for super admin dashboard

Super Admin Ministry Incharge

🚯 SuperAdmin 🛛 🗙 🕂	- đ)	ł
← → C (0 127.00.1:8000/SuperAd	dmin(employee) Q 🕁 🏶 🚯	
SuperAdmin	🔳 májovislam 🕶	
Welcome, mdjoyislam	+ New Ministry Incharge	
GENERAL	Button Example Users	
🕈 Home	Username contains: Last name contains: Last name contains:	
🕼 Ministry		
G Ministry Incharge	MinistryName: □ Education Ministry □ Information Technology □ ICT □ Food Ministry	
🕅 Teacher	Q Search	
≣ Student	Copy CSV Excel PDF Print	
🖵 Profile	Show 10 💌 entries	
🗭 Log Out	Search:	
	ld 👔 UserName 👔 First Name 👔 Last Name 👔 Email 👔 Ministry Name 👔 👔	
	15 NijhumSultana Nijhum Sultana1981 joy35-1954@diu.edu.bd Education Ministry 📝 💿 📋	
	22 ShahlmranRocky Shah Imran Rocky rocky1849@gmail.com ICT 📝 💿 📋	
	Showing 1 to 2 of 2 entries Go to Settings to activate Windows	
		¥

Figure 7. 5: UI for Super admin ministry incharge

Ministry Incharge Dashboard

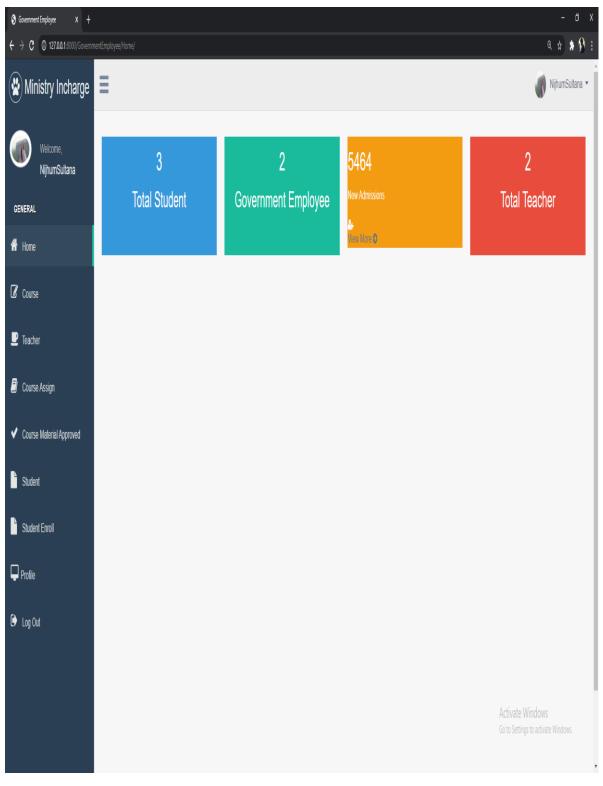


Figure 7. 6: UI for Ministry Incharge Dashboard

Ministry Incharge View Course

→ C ③ 127.00.1.8000/GovernmentE	mployee/course/		ପ୍	* *
Ministry Incharge 📃			0	NijhumSultar
Welcome, NijhumSultana			ŧ	New Course
eneral	Button Example Us	ers		
Home	id CourseName	Description	Picture	
Course P. Teacher	20 C Programming Language	এই কোসটি এমন ভাবে তেরি করা যে, আপনি যদি কোন দিন প্রোগ্রামিং নাও করে থাকেন, তরুও সব কিছু আপনার কাছে খুব সাবলিন মনে হবে। Course টি শুধু মাত্র C programming এর জন্য না, এটি এমন ভাবে তেরি যে আপনি এখানকার concept থেকে অন্য যে কোন programming language আপনার পছন্দের	0	0
Course Assign	Language	programming language নিয়ে কান্ড করতে পারবেন। তবে এটা ভাবা ঠিক হবে না যে syntax same বলে language same অথবা syntax ভিন্ন বলে হয়ত বা এই Concept গুলো কার্সো লাগবে না। Syntax যেমনই হক না কেন এখানকার concept universally programming language এর জন্য প্রয়োগ যোগ্য। একটু উদাহরণ দিলে আরেকটু পরিষ্কার হবে, Visual Basic programming language এর syntax সপুর্ণ ভিন্ন ধরণের, কিন্তু এইখান কার variables, datatype, conditions, control- flow(if-else, switch), looping, variables lifecycle etc concept শিখে তারপর যদি আপানি visual basic এর syntax datatype, scoping ইত্যাদি search করেন		/
Course Material Approved Student		তাহলেই আপনি যুব সহজেই বুঝে যাবেন কিভাবে Visual Basic এ কাজ করতে হয়। আরেকটা উদাহরণ না দিলেই নয়, Javascript অনেকটা দেখতে C এর মত(যে সব language দেখতে C এর মত এদের কে বলে C-base syntax), এখন আপনি যদি মনে করেন Javascript এর variable, datatype, scoping ইত্যাদি C এর মত, তাহলে মন্ত বড় ভুল করবে। আবার আরেকটা জিনিস বলতে হয় যে syntax programming এর সব কিছু না, আপনি যদি এই ভিডি৪ গুলা দেখে ৪-৫ টা		
Student Enroll		language এর syntax বের করে তা রশ্ত করতে যান তাহলে আবার কিছুই হবে না। আর্পনি শুধু মাত্র syntax শিখবেন কিন্তু আসল programming কি তা রশ্ত করতে পারবেন না। আপনি concept শিখে যেকোনো একটি language নিয়ে কাজ করবেন ৩-৪ বছর। আমরা Asian region যারা থাকি, তারা সাধারণত একটা খুব ভুল ধারণা নিয়ে প্রোগ্রামিং শুরু করি যে C দিয়ে প্রোগ্রামিং শুরু করে ACM or UVA problem solve না করলে প্রোগ্রামিং হয় না, বা এই পথ ছাড়া অন্য কোন উপায়ে পেরলে করা আগন হা অলম আরু উর্জিয়ে প্রে আগ্রমিং শুরু করে ACM or UVA problem solve না করলে প্রোগ্রামিং হয় না, বা এই পথ ছাড়া অন্য কোন উপায়ে		
Profile		প্রোগ্রামিং শুরু করা যাবে না। এইটা পুরোটাই ভুল ধারনা। জিনিস টা ব্যাখ্যা করতে আমি একটি aticle লিখে রেখেছি ভাল লাগলে পড়বেন।		
▶ Log Out	24 Java Programming Language	****** কেন জাভ শিখবেন? এই কোর্সে যতে-কলমে (পঢ়ুন যতে-কী বোর্ডে কিংবা যতে-মাউসে) গোগ্রমিং শেষার পাশাপাশি অর্জন করতে পারবেন তত্ত্বীয় জ্ঞানও। নিংসন্দেহে বলা যায়, বর্তমান সময়ের সবচেয়ে জনপ্রিয় গ্রোগ্রামিং লাক্ষ্নয়েজ হচ্ছে জাভা। কয়েক দশক ধরেই ইন্ডাস্ট্রিতে এই লাক্ষ্নয়েজরি আধিপতা। নতুন নতুন লাক্স ব্যোগ্র কর্তমান সময়ের সবচেয়ে জনপ্রিয় গ্রোগ্রামিং লাক্ষ্নয়েজ হচ্ছে জাভা। কয়েক দশক ধরেই ইন্ডাস্ট্রিতে এই লাক্ষ্নয়েজরি আধিপতা। নতুন নতুন লাক্স বেজ সময়ের সাথে উঠে আসনেও টেক-জায়ান্টদের প্রথম পছন্দ কিন্তু এখনো জাভাই। ***** কেন কিন্তার কি জ শেখা হবে। যেকোনো সমস্যা নিয়ে ভাবতে শিখবেন সুক্ষাভাবে। রপ্ত করতে পারবেন সমস্যাটিকে ছোট ছোট ধাপে ভাগ করে সহজে সমাধান করার কৌশল। জাভার সাথে সাথে শেখা হবে অবজেন্ট ওরিয়েন্টেড গ্রোগ্রামিং (OOP)। শিখবেন কনসোন-বেজড প্রজেন্থ্র। জোভাতে কিভাবে বিভিন্ন আইডিয়া ইমপ্রিমেন্ট করতে হয় ভাঙ শেখা হয়ে যাবে আপনার। আর এনডুয়েড প্রাটফর্যের কাঠামে যেহেতু জাভা ল্যাক্ষ্ময়েজর ওপরই দাঁড়িয়ে, এই কোর্স করতে করতে আপনি শিখে ফেলবেন এনড্রয়েড ডেভেলপমেন্টও। Javaরি এর মতো GUI ডেভেলপমন্ট শিখে বানিয়ে ফেলতে পারবেন ক্রুস:প্রাটফর্য্র কের্ডেও এপেলি ইকেন থারেই কিংবা মাইলস্টেন থেকে যেমন শেখা হবে, তেমনি বাড়রে আপনার আত্মবিশ্লসঙ এই কোর্সাটিতে স্ব গ্রোগ্রিং লাক্সয়েজ মুদু বিষয়গুলো মোটামুটি ব্রুবে নেওয়ার পারই জোভা শিথবেন বিন্ডারিত। তাই এই কোর্সের গোপার আপ্রবিশ্বাসঙ এই কোর্সটিতে সব গ্রোগ্রিয় দান্যজের মুদু বিষয়গুলো মোটামুটি ব্রুবে নেওয়ার পেরই জোভা শিথবেন বিন্ডারিত। তাই এই কের্সের পোটা আপনি অন্যান্য প্রোগ্রি ল্যাক্ষ্নযেজেও ক্রজে লাগাতে পারবেন সহজে।		
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Figure 7. 7: UI for Ministry Incharge View Course

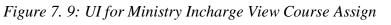
Ministry Incharge View Teacher

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✔ Course Material Approved	11 mdanikislam Md anik islam anikislam668@gmail.com	0
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Figure 7. 8: UI for Ministry Incharge View Teacher

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Student	1 Batch2020 mdanikislam C Programming Language Oct. 1, 2020 03 Days	True	
Student Enroll	9 Batch2021 mdanikislam C Programming Language Dec. 31, 2020 60 Days	False	
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Ministry Incharge View Course Assign



Ministry Incharge View Student

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✔ Course Material Approved	20 toufiqulislamnoyon	Md	Toufiqul Islam Noyon	rtarek541@gmail.com	0
Student	21 joy	MD	joy islam	joy@gmail.com	0
Student Enroll	25 ragib	ragib	shahriar1803	ragibshahriar920@gmail.com	∂ 1
🖵 Profile	Showing 1 to 3 of 3 entries				Previous 1 Next
🕞 Log Out					
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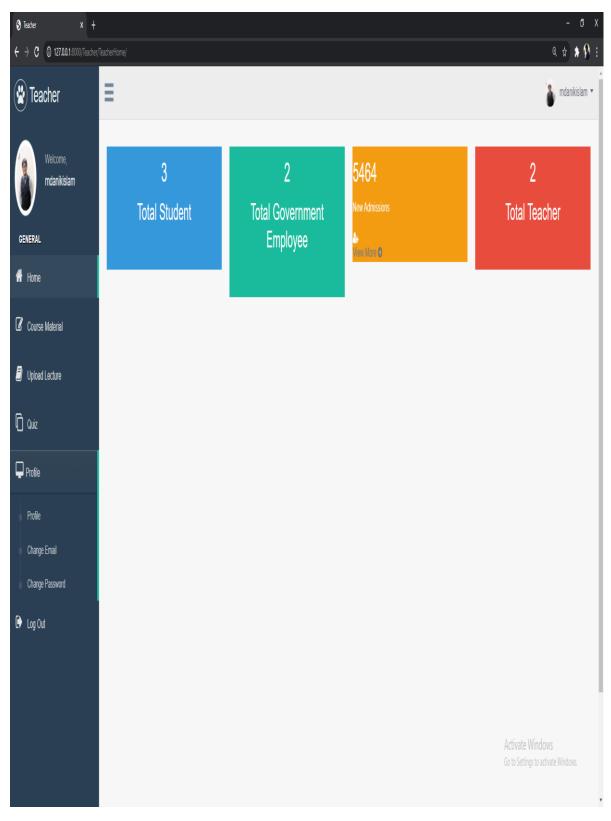
Figure 7. 10: UI for Ministry Incharge View Student

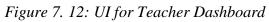
Ministry Incharge Student enroll

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	25 ragib	C Programming Language	False	
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			Gentelella - Bootst	rap Admin Template by Colorlib

Figure 7. 11: UI for Ministry Incharge View Student Enroll

Teacher Dashboard

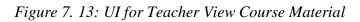




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Teacher View Course Material

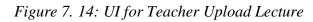
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Teacher View Upload Lecture

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Welcome, mdanikislam		+ New Upload Lecture
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🖸 Quiz	Material Id j≟ Name ⊨t Video ⊔t PDF ⊥t Text	t Jt
Profile	4 Introduction https://youtu.be/u2UHKKiqqOA PDF/md_joy_islam_EWWd5Jm.pdf About A card is a flexible and extensible content container. It includes options for headers and footers, a wide variety of content, contextual background colors, and powerful display options. If you're familiar with Bootstrap 3, cards replace our old panels, wells, and thumbnails. Similar functionality to those components is available as modifier classes for cards.	
	5 Introduction https://youtu.be/a1f8EHiA1_U PDF/Marufur_Rahman_CVDIU_1.pdf Cards are built with as little markup and styles as possible, but still manage to deliver a ton of control and customization. Built with flexbox, they offer easy alignment and mix well with other Bootstrap components. They have no margin by default, so use ospacing utilities as needed. Below is an example of a basic card with mixed content and a fived with Cards have	tivate Windows to Settings to activate Windows



Teacher view quiz

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X Teacher	Ξ					🛔 mdanikislam 🔹
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r Home 🛙 Course Material	Quiz	Subject	Questions	Time Duration	Taken	
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🕻 Quiz						
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Figure 7. 15: UI for Teacher Quiz

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V	Introduction quiz	View results
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🛿 Course Material	Subject"	
🗐 Upload Lecture	Introduction 🗸	
	Time duration	
🖸 Quiz	06.00.00	
📮 Profile	Save changes Nevermind Delete	
🗭 Log Out		
	Questions	Answers
	printf("5+5");	4
	c language is	3
	which of the following is not variable type?	4
	Who developed C languages?	4
	What is the default return type of a function?	4
	How much memory is required to store a value of type double?	4
	Which of the following is not a valid variable name declaration?	4
	All keywords in C are in	4
	A single line comment in C language source code can begin with	Activate Windows Go to Settings to activate Windows.
	545	0

Teacher View Question and Update quiz

Figure 7. 16: UI for Teacher Update quiz and view question

4 → C 127.001	x + 8000/Teacher/quiz/1/question/11/		* *
Teacher	=		🌡 mdanikisi
Welcome, mdanikislam	Wy Quitzes / Introduction quiz / Who developed Clanguages?		
	Question"		
GENERAL	Who developed C languages?		
Home Home	Answers	Correct?	Delete?
Course Material	Answer"	0	0
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] Quiz	Answer"		0
Profile	Peter Norton		
Log Out	Answer'	0	0
	Von Neuman		
	Answer'	٥	D
	Dennis Ritchie		
	Arswer'	0	
	Answer*	0	
	Answer*	0	Activate Windows
			Go to Settings to activate Windows.

Teacher Update question and update answer

Figure 7. 17: UI for Teacher update question and update answer

Student Dashboard

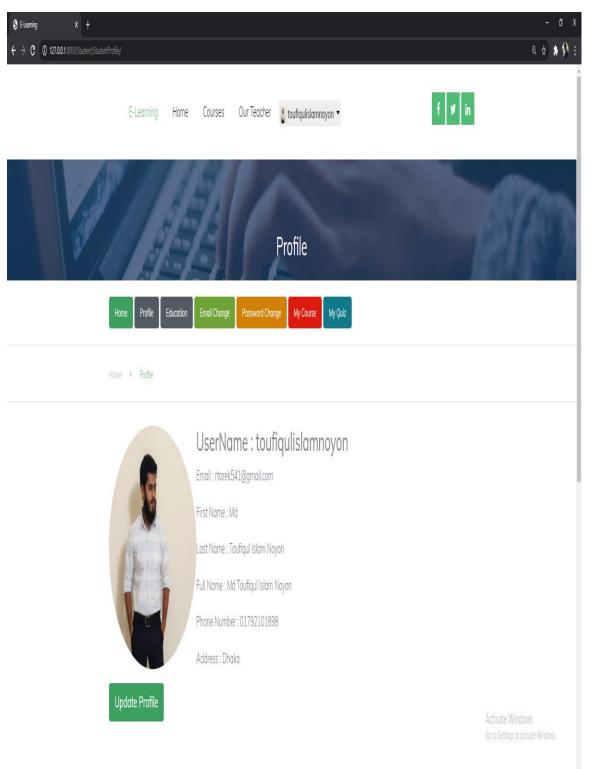
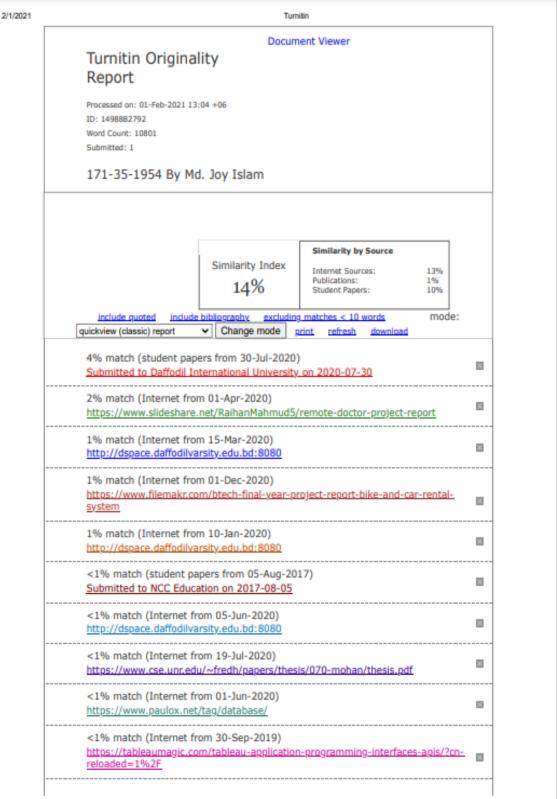


Figure 7. 18: UI for Student Dashboard

PLAGIARISM REPORT



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