



Project Report on

Online course sharing 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 of Project

This project titled "Online Course", submitted by Mimona Khan, ID: 173-35-2215 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 B.Sc.in Software Engineering and approved as to its style and contents.

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DECLARATION

I hereby declare that project titled "Online Course Sharing Platform" is an original record done by me under the supervision of Khalid Been Md Badruzzaman Biplop Lecturer, Department of Software Engineering, Daffodil International University, towards the partial fulfillment of requirement for the award of degree of Bachelor of Science in Software Engineering during the period of 2017-2021. I also state that this project has not been submitted anywhere in the partial fulfillment for any degree of this or any other University

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ACKNOLEDGEMENT

In this present world of competition there is race of existence in which those are having will come to forward succeed. Project is a bridge between theoretical and practical working. With this willing I joined this particular project. First, I would like to thank the supreme power the Almighty ALLAH who is obviously the one who is guided me to work on the right path of life. Without his grace this project could not become a reality. Next to him are my parents, whom I am greatly indebted for brought up with love and encouragement to this stage.

I am feeling oblige in talking the opportunity to study in Daffodil International University. I would like to sincerely thank to Professor Dr. Imran Mahmud , Head, Department of Software Engineering. All the honorable teachers who teach me such an interesting and understandable way full of enjoyment. I am grateful to having them in my journey.

I am exceptionally obligated to Daffodil International University for their direction and steady supervision by Khalid Been Md. Badruzzaman Biplop and in addition for giving necessary information with respect to the venture and additionally for their help in finishing the project.

I am grateful to my Department staff members, Lab technicians and Non-teaching staff members for their extreme help throughout my project.

Finally, I would like to express my love to my batch mate, member of DIU for their kind cooperation and consolation which help me in finishing of this task.

Abstract

Basically the main motive of my system teacher can able to create and share course videos on various topics, so that our students will get benefits from this, & they can learn. On the other hand it is to enhance student access to the University's academic programs. There are many such platforms but it will be based on our university. Our features are search videos, upload videos & view course details. Only teachers & students will get access.

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Chapter 1: Introduction

1.1 Project Overview

Online course sharing platforms are types of learning management system that provides users with access to digital classes. These virtual courses are similar to off classes in a lot ways an instructor provides an engaging educational experience through video. But this system will be based on our university that course instructor can upload here course or various topic's related video. That will be helpful & also a learning source.

1.2 Background of project

In this online course sharing platform course instructors & students will see the future of different types of features. The system is made for our course instructors that they can upload here course related videos & students learn something from this as if it is beneficial for them.

This system is mainly about search videos, upload, view, update/delete & review.

1.2.1 Purpose and Scope

Online course sharing platform is a dynamic website for course instructors & students. It is dynamic and responsive web design. It is also called online learning. Today learners want relevant, mobile, selfpaced, and personalized content. This need is fulfilled with the online - mode of learning. The online method of learning is best suited for everyone. Course instructor can make & uploading here whoever it needed they will get it & it will be helpful themselves.

1.2.2 Benefits

This system helps online learners to learn remotely .This system keeps records of all user data, course data. Easy access from anywhere for authorized-user. Find out any desired course easily with a search Users can get a smart User Interface.

1.3 Stakeholders

According to the Project Management Institute, project stakeholders are defined as Individuals and organizations who are actively involved in the project, or whose interests may be positively or negatively affected as a result of project execution or successful project completion.

1.3.1 Course Instructor

The instructor can add/upload a new course. The course Instructor can view the course details. The instructor also can update all the course information; also he can delete any course.

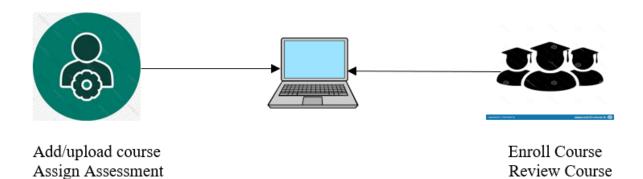
1.3.2 Student

Only registered students can enter the system and access the course resources. They can enroll course. Students will be able to give review. Students cannot get the same accessibility as the course instructors.

1.3.3 Admin

Admin can maintain all the system. All the system's accessibility admin can manage it. But before that admin have to login must to enter the system.

1.3.3 Proposed system model (Figure 1.3.3)



1.4 Modules of Online Course

Update/Delete Course

- User Modules: Used for user details & information.
- Register Modules: Used for data management system.
- Login Modules: Used for user authentication.
- Course Modules: Used for Course related information.

1.5 Objective

- Teacher can able to create and share course videos.
- Students will get benefits from this & they can learn.
- It is to enhance student access to the University's academic program.

Chapter 2: Requirement Engineering

2.1 Functional Requirement

A functional requirement defines a function of a system or its component, where a function is described as a specification of behavior between inputs and outputs. It is a description of the service that the software must offer. Functional requirements may involve calculations, technical details, data manipulation and processing, and other specific functionality that define what a system is supposed to accomplish. For my project the functional requirement are:

2.1.1 Registration

FR 1	Registration
Description	Students have to must register for login access.
	Stakeholder(Students)

2.1.2 Login/Logout

FR 2	Login/Logout
Description	It is a must criteria for the application.

2.1.3 Upload Course

FR 3	Upload Course
Description	Course Instructor upload here course related videos. Stakeholder(Course Instructor)

2.1.4 Enroll Course

FR 4	Enroll Course
Description	Students can enroll course
	Stakeholder(students)

2.1.5 Review Course

FR 5	Review Course
Description	Students can give review for course videos.
	Stakeholder(Student)

2.1.6 Update/delete Course

FR 5	Update/delete Course
Description	Course Instructor can update or delete any course from here.
	Stakeholder(Student)

2.2 Non Functional Requirement

2.2.1 Performance

NFR 1	performance
Description	This System will be provide when admin search or do any particular info or job the result appears must be faster without any fault. Stakeholder(Admin)

2.2.2 Security

NFR 2	Security
Description	This system will be work for user data security. All the data must be secured with encrypted system, and it is also protected from the internal attacks. Stakeholder(Admin)

2.2.3 Availability

NFR 3	Availability
Description	The application will be available for 24h.
	Stakeholder(Admin)

2.2.4 Maintenance

NFR 4	Maintenance
Description	Admin will maintain all the entire system of this application.
	Stakeholder(Admin)

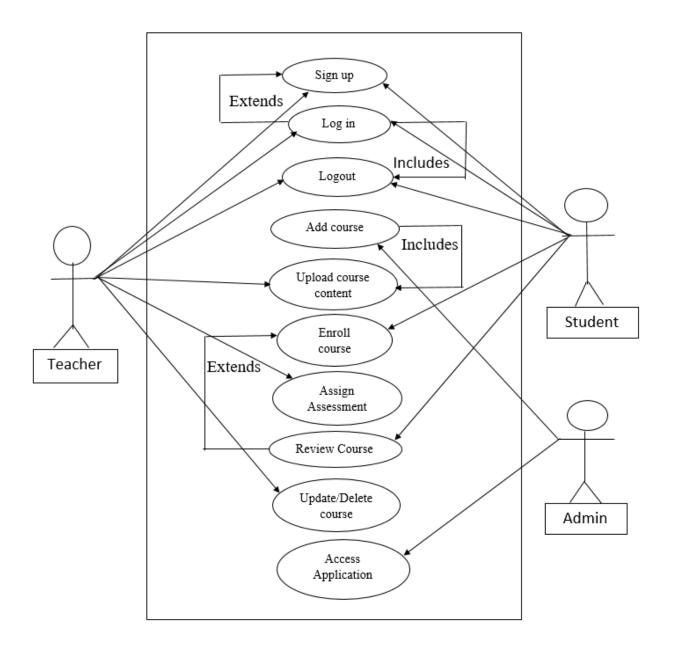
CHAPTER 3: SYSTEM ANALYSIS, DESIGN & SPECIFICATION

3.1 Development Model (Figure 3.1 Agile Model)

We have to plan a lot while doing any project and sometimes we have to change it too. User satisfaction is a big deal for any project, and on the other hand is testing part. So, for my project I choose the agile model. Agile methods defines a practice that promotes continuous of iteration development & testing throughout the lifecycle of the project. Agile model offers to do this system using agile model i can easily change any part of my project without any nonfunctional problem. For testing agile model also give the opportunity that I can test every unit of my project for development. It encourages flexible response to change & finishable within a short time.



3.2 Use case Diagram (Figure 3.2)



Use case description

3.2.1 Sign up

- It is the must criteria of functional requirement.
- If anyone wants to login they have to must registered.
- New visitors have to create account in the system.

Use case ID	01
Use case name	Register
Goal	To create new account in the system.
Precondition	The user have an email address
Primary Actor Secondary Actor	Student. Course Instructor
Trigger	Button
Description	 To enhance user account. Login into the system. Access to the Application
Post Condition	User can log in

3.2.2 Login

- Users (student & course instructor) have to login must with their information for enter the system (Online course sharing platform).
- Registration should be done before that, if they are not registered.

Use case ID	02
Use case name	Login
Goal	To allow the users enter the system
Precondition	Must be registered with register information
Primary Actor Secondary Actor	Student. Course Instructor
Trigger	Button
Description	For enter the systemAccess to the Application
Post Condition	User can log out anytime from the application.

3.2.3 Upload Course

- Must to login.
- Course instructor can upload here course content with title or a short description.

Use case ID	03
Use case name	Add/upload course
Goal	To provide online course or helping materials for the student
Precondition	Must be logged in with log in information
Primary Actor Secondary Actor	Course Instructor
Trigger	button
Description	 Add new course with title or description. Upload new videos.
Post Condition	Add course is ready to view

3.2.4 Assign Assessment

- After enter the system (online course sharing platform) there is a option for assessment.
- After add or uploading new course instructor can take assessment.

Use case ID	04
Use case name	Assign Assessment
Goal	To set assessment for the students.
Precondition	Must have add or upload course videos.
Primary Actor Secondary Actor	Course Instructor
Trigger	From
Description	 Student can give assessment here Must have to enroll course
Post Condition	Add course material and take assessment

3.2.5 Enroll Course

- The student have must to login for enter the system
- They can get access in the uploaded videos
- After that they can enroll course

Use case ID	05
Use case name	Enroll course
Goal	To set assessment for the students.
Precondition	Must have add or upload course videos.
Primary Actor Secondary Actor	Student
Trigger	button
Description	Students get access course contentAttend to assessment
Post Condition	Log in

3.2.6 Review Course

- User have to must be logged in with login informationEnroll the course before give review

Use case ID	06
Use case name	Review course
Goal	To get the review for uploaded video
Precondition	Must have upload course videos.
Primary Actor Secondary Actor	Course Instructor
Description	Get review from the course videos.User can give review
Post Condition	Show the average review status

3.2.7 Update/delete course

- User have to must be logged in with login informationMust provide the course videos

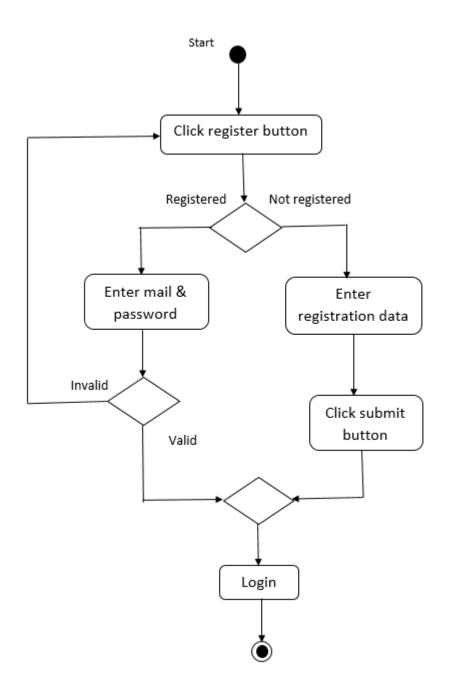
Use case ID	07
Use case name	Update/delete course
Goal	To update or modify any course videos or delete any videos.
Precondition	Must have add or upload course videos.
Primary Actor Secondary Actor	Course Instructor
Trigger	button
Description	Course instructor & admin can update or delete videos.
Post Condition	Ready to view new video

3.2.8 Log out

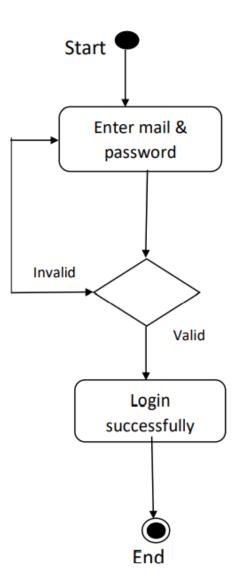
- User should logout from the system after done his activities.
- There will be a logout button

Use case ID	08
Use case name	Log out
Goal	To finish he session form the system
Precondition	Must be logged in with login information
Primary Actor Secondary Actor	Course Instructor, student & admin
Trigger	button
Description	To terminate the sessionEnd to the user session
Post Condition	User can login any time

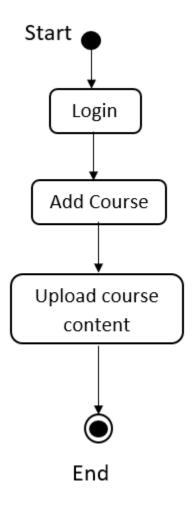
3.3.1 Sign up (Figure: 3.3)



3.3.2 Log in (Figure: 3.4)

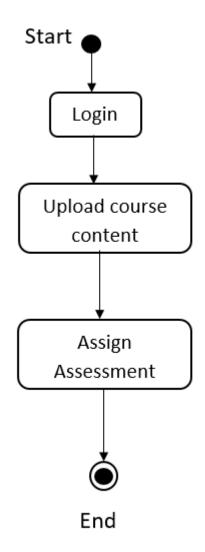


3.3.3 Upload Course (Figure: 3.5)

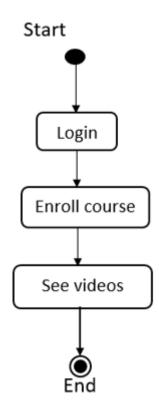


Activity Diagram (Figure: 3.6)

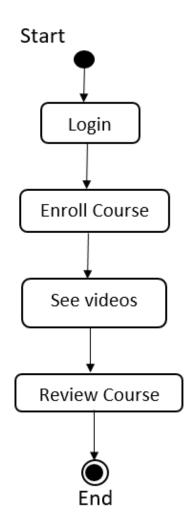
3.3.4 Assign Assessment



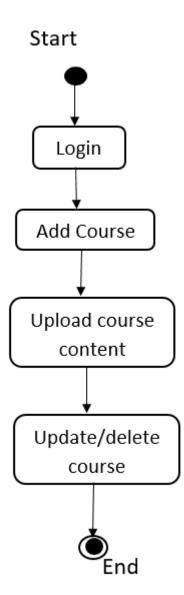
3.3.5 Enroll Course (Figure: 3.7)



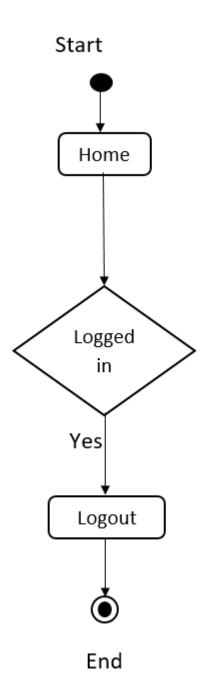
3.3.6 Review Course (Figure: 3.8)



3.3.7 Update/delete Course (Figure: 3.9)

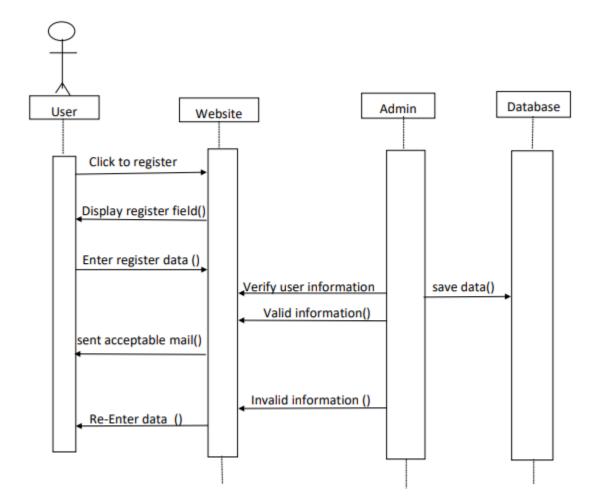


3.3.8 Log Out (Figure 3.10)



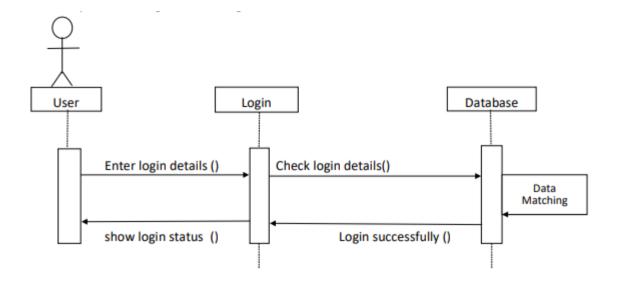
3.4 Sequence Diagram

3.4.1 Sign up (Figure 4.1)

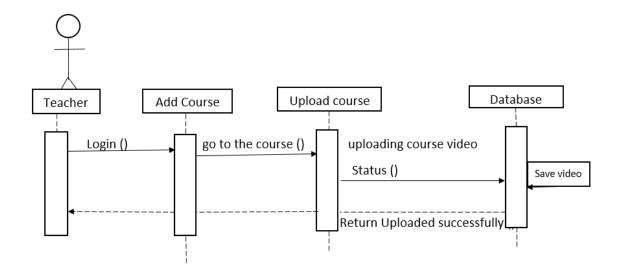


Sequence Diagram

3.4.2 Log in (Figure: 4.2)

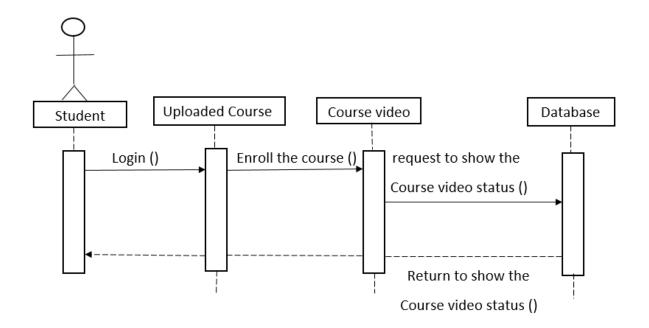


3.4.3 Upload Course (Figure: 4.3)

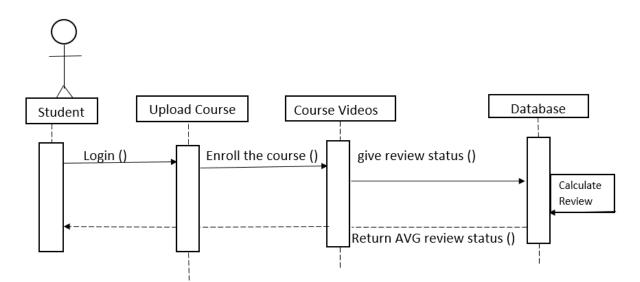


Sequence Diagram

3.4.4 Enroll Course (Figure: 4.4)

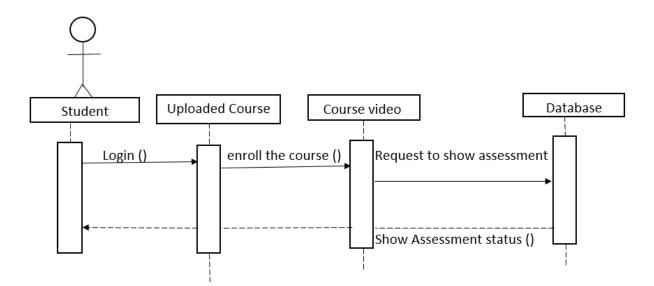


3.4.5 Review Course (Figure: 4.5)

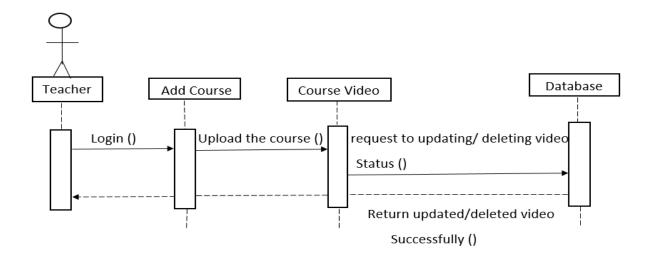


Sequence Diagram

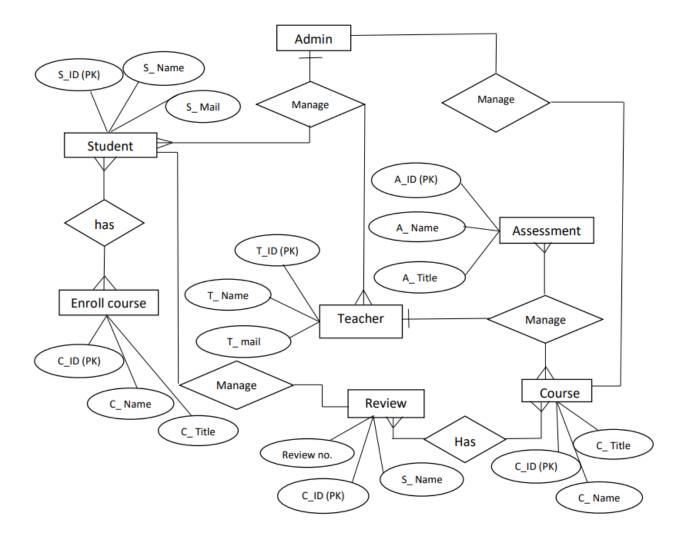
3.4.6 Assign Assessment (Figure: 4.6)



3.4.7 Update/delete Course (Figure: 4.7)



3.4.8 Entity Relationship Diagram (Figure: 4.8)



CHAPTER: 4 SYSTEM TESTING

4.1 Feature Testing

Feature testing is define as add or modify to the any functionality of any system. There are so many function in project and they are different as their different characteristics and this functions are works as effective, useful, secure and reliable.

4.1.1 Feature to be tested (Table: 4.1)

Features	Priority	Description
Signup	1	Must be Registered for enter the system & save data.
Login	1	Must be login authentically.
Logout	2	For finish the session.
Upload Course	1	All the course content save in database.
Enroll Course	1	Course will be enrolled by user.
Review course	2	Must be showed on AVG. review.
Update/Delete course	3	Course content will be updating or deleting properly.

4.2 Testing Strategies

4.2.1 Test Approach

I have used two types of testing for my system to ensure the quality of this.one is white box testing & another is black box testing.

- White box testing: It is conduct to test program and its implementation. In Order to improve code efficiency or structure. It also known as (structural testing). In this testing method the design & structure of the code are known to the tester. Programmers of the code conduct this code on the test.
- Black box testing: It is define as to carried out the test functionality of the program and also called (behavioral testing). The tester in this case, has a set of input values and respective desired result. On providing input, if the output matches with the desired result the program is tested ok.

4.2.2 Pass/fail Criteria

The expected result or outcome is the step for pass/fail criteria. The criteria is based on system's data which are working or not. If the data works properly it will be considered pass criteria similarly if any data works not properly will be considered as fail criteria. For Example:

- If the system has been stop, it's a fail criteria.
- The pass criteria will be considered if any criteria pass 100% testing.
- Which data can't be showed in the system that will be considered as a fail criteria.

4.2.3 Testing Schedule (Table : 4.2)

Test Phase	Time
Testing plan create	1 week
Unit Testing	During Development Time
Component Testing	During Development Time
Integration Testing	1 week
Testing User Interface	1 week
Load Testing	1 week
Performance Testing	1 week
Accessibility Testing	1 week

4.2.4 Traceability Matrix (Table: 4.3)

Project Manager			Business Analyst Lead		
QA Lead			Target Implementation Date		
BR#	Functionality/ Activity	Requirement Description	Test Case Reference	Comments	
BR1	Functional	Sign up	Test Case 4.4.1		
BR2	Functional	Log in	Test Case 4.4.2		
BR3	Functional	Log out	Test Case 4.4.3		
BR4	Functional	Upload Course	Test Case 4.4.4		
BR5	Functional	Enroll Course	Test Case 4.4.5		
BR6	Functional	Update Course	Test Case 4.4.6		
BR7	Functional	Delete Course	Test Case 4.4.6		

4.3 Testing Environment

Testing Environment defines a environment that contains software & hardware so that the tester can test easily with the test requirement. Network connection & some another things is also needed for testing. For example,

- System & Application
- Browser
- Network
- Front-end running environment
- Back-end running environment
- Database Server
- Webserver
- Test data

4.4 Test Cases

Test cases means the specification of the inputs & execution. There are some rules & conditions for test cases. Every system may have error or some fault & this the very common issue for software development process. This problem are solved by software testing approaches, otherwise the system might be failed. In my project I have prepared some test cases & those are:

4.4.1 Sign up

Test ca	se #1		Test case nam	e: Sign Up		
System	: Online Cours	e				
Designe	ed By: Mimon	a Khan	Designed Date	e: 08-April-2021		
Short d	escription: Sy	stem will save r	new user inform	nation.		
Pre-cor	nditions:					
	• User must l	have a Valid Us	ername, Email	& Password.		
Serial	Username	Email	Password	Expected	Pass	Comment
				result	/Fail	
1	Nuran	Khan	123456	Invalid	fail	Not Signed
				email		up
2			123456	The Username,	fail	Not signed
				the email field		up
				is required		
3	123456			The Username	fail	Not signed
				is Invalid.		up
4	Nuran	nuran123@	123456	Successfully	Pass	Signed up
		gmail.com		signed up to		
				the application		
				and redirected		
				to the login		
				page		

4.4.2 Login

Test ca	nse #2			Test case na	ame: Log In	
System	: Online Course					
Design	ed By: Mimona Khan			Designed D	ate: 08-Apri	il-2021
Short o	description: System will	check the lo	gin info	ormation with	authenticail	lly.
Pre-co	nditions:					
	• Users will be entered	to the login	page &	see the Cour	rses.	
		U	10			
Serial	Email	Password	Expe	cted result	Pass/Fail	Comment
1	Nuran	123456	Inva	id	fail	Not logged
			Emai	l		in
2		12345	The e	mail field is	fail	Not logged
			requi	ed		in
3			The u	sername and	fail	Not logged
			passw	ord field is		in
			requir	ed		
4	nuran123@gmail.com	12345	Succe	essfully login	Pass	Logged in
			to the	application.		
Post-co	nditions: User will succe	essfully login	to the	application		

4.2.3 Logout

Test case #3			Test case name: Log	g Out	
System: Online course					
Design	ed By: Mimona Khan	L	Designed Date: 08-0	Oct-2020	
Short description: System will end the user session					
Pre-co	nditions:				
• Users must be logged in before do this.					
Serial	Action	Response		Pass/Fail	Comment
1	Hit Log Out Button	Session		Pass	Logged out
		Finished			
2	Close Browser tab	Session		Pass	Logged out
		Finished			- 66
Post-co	nditions: The user car	log in agai	n with Email & passw	ord.	

4.2.4 Upload Course

Test case #1			Test case name: Sign Up				
System: Online Course							
Designe	ed By: Mim	ona Khan	Designed Date	: 08-April-2021			
Short d	escription:	System will sav	ve new user info	ormation.			
Pre-con	ditions:						
•	• User mu	st have a Valid	Username, Em	ail & Password.			
Serial	Course		description	Expected result	Pass	Comment	
	details	Requirement			/Fail		
1	Added	Not Added	Added	Requirement	fail	Not	
				field not		Uploaded	
				added			
2				The course details	fail	Not	
				,requirement &		Uploaded	
				description field is			
				required			
3		added		The course details &	fail	Not	
				description field is		Uploaded	
				required.			
4	Added	Added	Added	Successfully	Pass	uploaded	
				Uploaded			
Post-con	ditions: Th	e courses is read	ly to enroll		1	1	

4.2.5 Enroll Course

Test ca	ase #5	Test case name: En	roll Course		
System: Online course					
Design	ed By: Mimona Khan		Designed Date: 08-	April-2021	
Short	description: The cours	se will ready	y to enroll		
Pre-conditions:					
	• Users must be log	ged in to en	roll course		
	• Must be uploaded	video			
Serial	Action	Response		Pass/Fail	Comment
1	Hit enroll button	Course		Pass	enrolled
		enrolled			
2	Close Browser tab	Session		Pass	enrolled
		Finished			
Post-co	nditions: Students can	able to enro	oll the course		

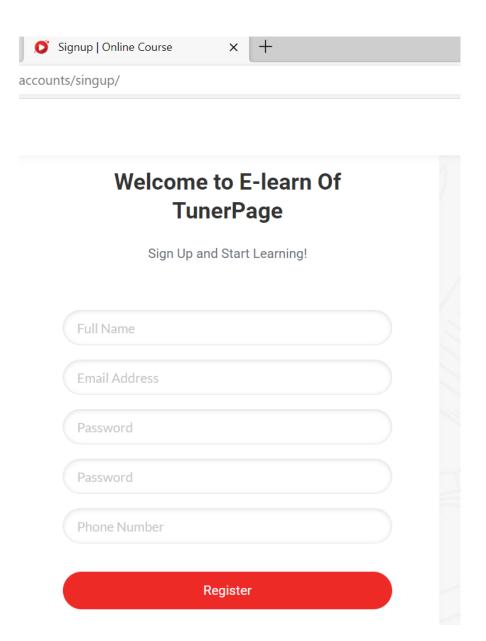
4.2.6 Update/delete Course

Test case #5			Test case name: up	date/delete	Course
Systen	n: Online course				
Design	ed By: Mimona Khan		Designed Date: 08-	April-2021	
Short	description: System w	ill update 8	z delete course		
Pre-co	nditions:				
	• Must be logged in	before to c	lo this		
	• Must be uploaded	video			
Serial	Action	Response		Pass/Fail	Comment
1	Hit update button	Course		Pass	updated
		update			
2	Hit delete button	Course		Pass	deleted
		delete			
Post-co	nditions: N/A				

CHAPTER: 5 USER MANAUL

5.1 Sign up

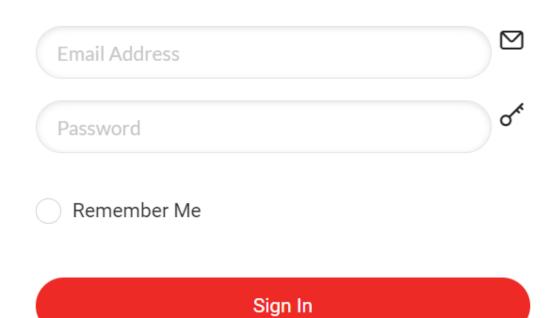
User have to must signed up before, after that user have to do login with login information & get access to the application.



5.2 Login

Welcome Back

Log In to Your E-Learn Account!



5.3 Upload Course

Video:	
Course video: #3	8
Title:	
Video:	
+ Add another Course video	

Save and add another

Save and continue editing

SAVE

5.4 Enroll Course



5.5 Course Content

Introduction to Front End Development	6 lectures	27:26
Introduction to HTML	13 lectures	58:55
토 Intermediate HTML	13 lectures	01.12:29
토 Introduction to CSS	15 lectures	01.40:15
토 Intermediate CSS	16 lectures	01.26:40
토 Bootstrap	16 lectures	01.59:54
및 Bootstrap 4!	11 lectures	01.16:28
፱ Introduction to JavaScript	12 lectures	56:21

CHAPTER 6: CONCLUSION

6.1 Project Summary:

Online Course is a Online based platform it's a one kind of e-learning system, where the teacher can upload video for students & students have enroll it to see the videos, the teacher can take assessment & the students can give review. Teacher & students have to must be registered to access the system. Doing with login they can enter the system.

I've completed this project within a short period. What I've done this project hope to ready to use. System will be updated regularly as the project's progress.

6.2 Limitation

There are some features in this project that I can't fulfill. I did try my best for this project, that the outcome will be beneficial.

- It's a web-based application, no mobile application is not developed yet.
- It is a step by step procedures, all steps are comes after one. So every step is needed to be first completed, and then move the other steps.
- Sometimes very high data interaction so, the server may be down

6.3 Obstacle & Achievement

For developing the project I face many problems & challenges many of them was so difficult for me. I tried my best to solve the problem & challenges. For frontend I was introduce to some new programming language that was very difficult to me, then at the start of the time i copied some code to understand. Then I faced some CURD operation, local server problems. After some months of later i did the job successfully.

Now I hope this project will be works perfectly & this is the big achievement for me.

6.4 Future Scope

- Mobile Application Can be develop for this system.
- Create more powerful database reduce to overload.
- Payment option will be create later.
- Adding more & new features.

CHAPTER 6: REFERENCE

https://books.google.com/books/about/e_Learning_and_the_Scienc e_of_Instructio.html?id=twoLz3jlkRgC

Youtube source—joy of python programming & making online course website

github.com/Nuran000/online-course

http://getbootstrap.com/

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