



**TRƯỜNG ĐẠI HỌC FPT**

# **CAPSTONE PROJECT REPORT**

## **Report 3 – Software Requirement Specification**

– Hanoi, June 21, 2023 –

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# I. Project Report

## 1. Status Report

#	Work Item	Status	Notes (Work Item in Details)
1	Overall Description	Completed	
2	User Requirements	Completed	
3	Functional Requirements	Completed	
4	Non-functional requirements	Completed	
5	Other Requirements	Completed	

## 2. Team Involvements

#	Task	Member	Notes (Task Details, etc.)
1	Overall Description	DũngNM, NguyênTK	
2	User Requirements	TháiLA, HưngNM, KhaNM, DũngNM, NguyênTK	
3	Functional Requirements	TháiLA, HưngNM, KhaNM	
4	Non-functional requirements	TháiLA, HưngNM, KhaNM	
5	Other Requirements	DũngNM, NguyênTK	

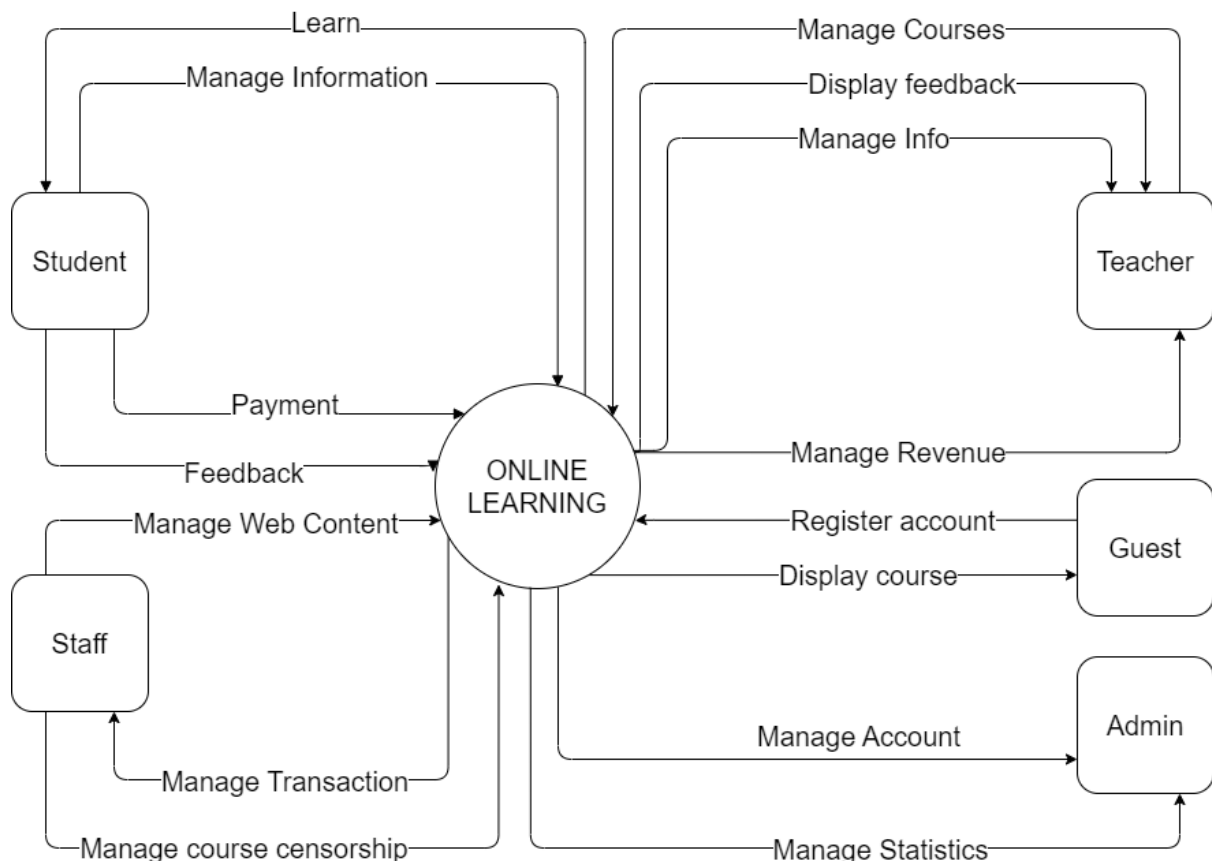
## 3. Issues/Suggestions

#	Issue	Status	Notes (Solution, Suggestion, etc.)
1		Pending	
2		In Progress	
3		Completed	

## II. Software Requirement Specification 1. Overall Description

### 1.1 Product Overview

This chapter outlines the functional and non-functional requirements of our system. It also provides some format constraints in common requirements and project success criteria. The content of this chapter is used as the basis for the work in the subsequent chapters.



### 1.2 Business Rules

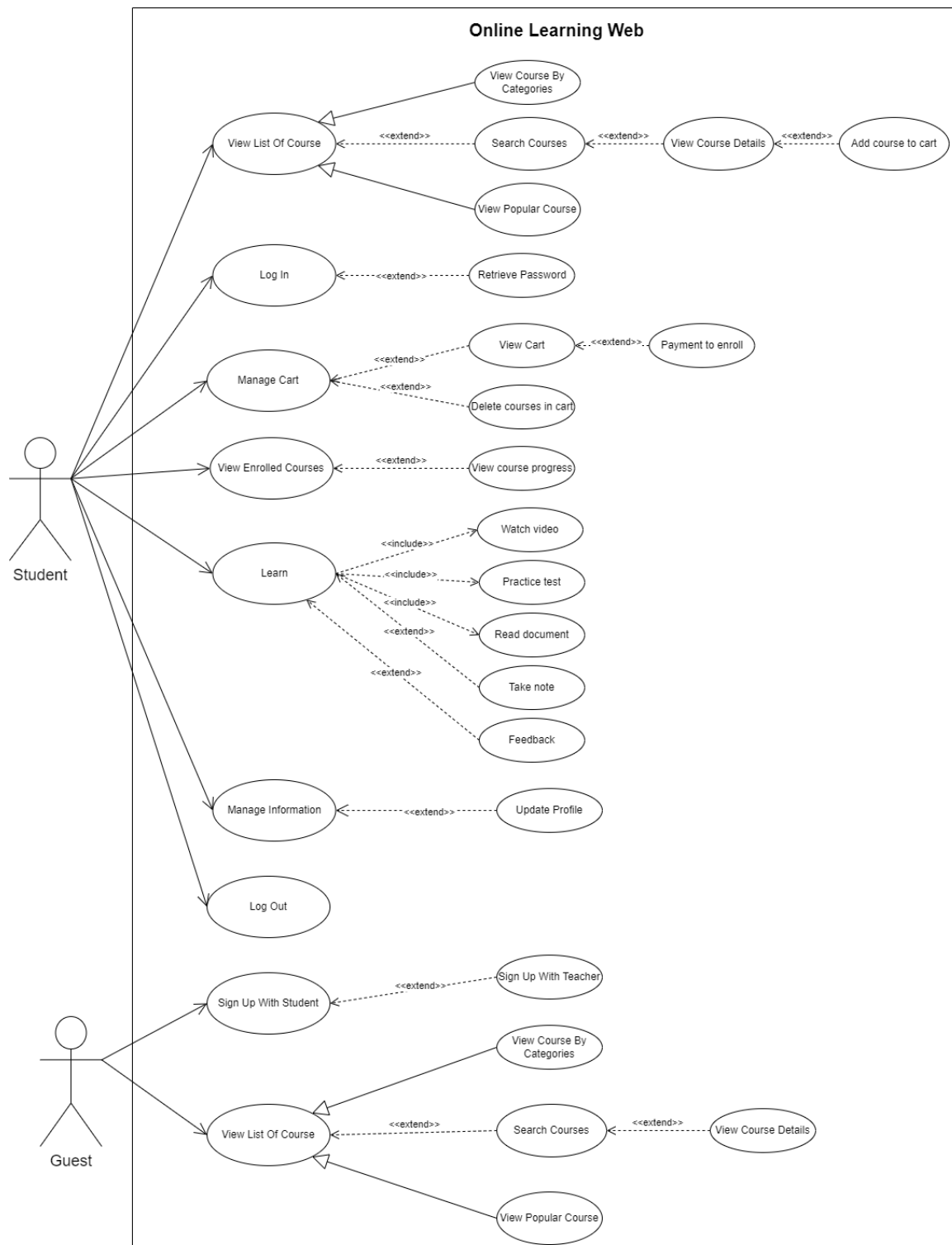
ID	Description
B1	The password must contain at least 6 characters, including at least 1 number and at least 1 special character
B2	The system must comply with established security standards, including data encryption, access control, and protection of user information.
B3	The system must provide different roles such as students, teachers, staff, and administrators to manage access rights and corresponding functionalities.
B4	Administrators have the authority to manage and assign roles to users, including access rights and specific functionalities.
B5	When registering or changing a password, users must enter the new password twice.
B6	Guests cannot register with email that has already been registered.

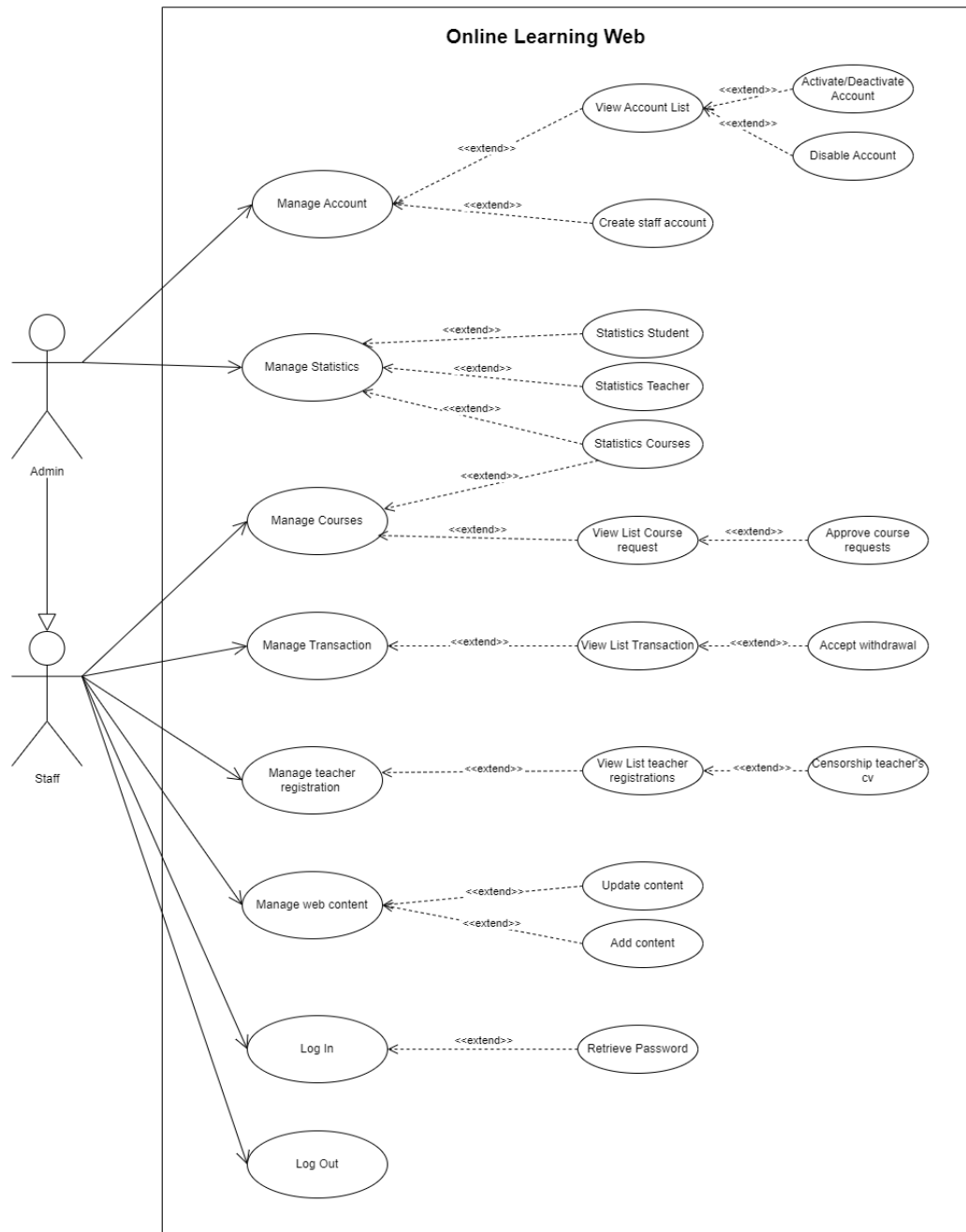
B7	The system provides a progress tracking feature for users.
B8	Users cannot update their email address once it has been registered.
B9	When changing a password, the new password must not be the same as the current password.
B10	OTP (One-Time Password) codes expire after 2 minutes.
B11	OTP codes must consist of 6 numeric characters.
B12	Image size must be less than 5MB and video size must be less than 1024MB.
B13	If the search content is empty, all courses will be returned as the result.
B14	Individuals cannot become teachers without CV verification from staff members.
B15	Users must log in before joining a course.
B16	Teachers must dress appropriately when recording videos.
B17	Students need to take a test after each lesson.
B18	Students may give feedback after completing the course.
B19	Users must agree to the terms and conditions before registering and using the system.
B20	Users are not allowed to share their accounts with others.
B21	Users are not permitted to copy, distribute, or use any part or whole of the course content without permission from the provider.
B22	The system has the right to suspend or terminate user accounts if they violate the established rules and regulations.
B23	The system provides technical support services and assistance through email.
B24	Users can participate in forums or online communities to share knowledge and interact with other users.
B25	The system offers note-taking and bookmarking features for users to save and access important information during their learning journey.
B26	Users have the right to review and edit their personal information in accordance with regulations on personal data protection.
B27	The amount that a teacher is attempting to withdraw must not exceed their account balance.
B28	Users need to register and purchase a course before accessing related content and materials.
B29	Users must comply with copyright regulations and are not allowed to copy, distribute, or use course content unlawfully.
B30	Users can request support from teachers or support teams when encountering difficulties during the learning process.
B31	The online learning system provides assessment and rating methods for users to choose
B32	The course is only updated once a year

## 2. User Requirements

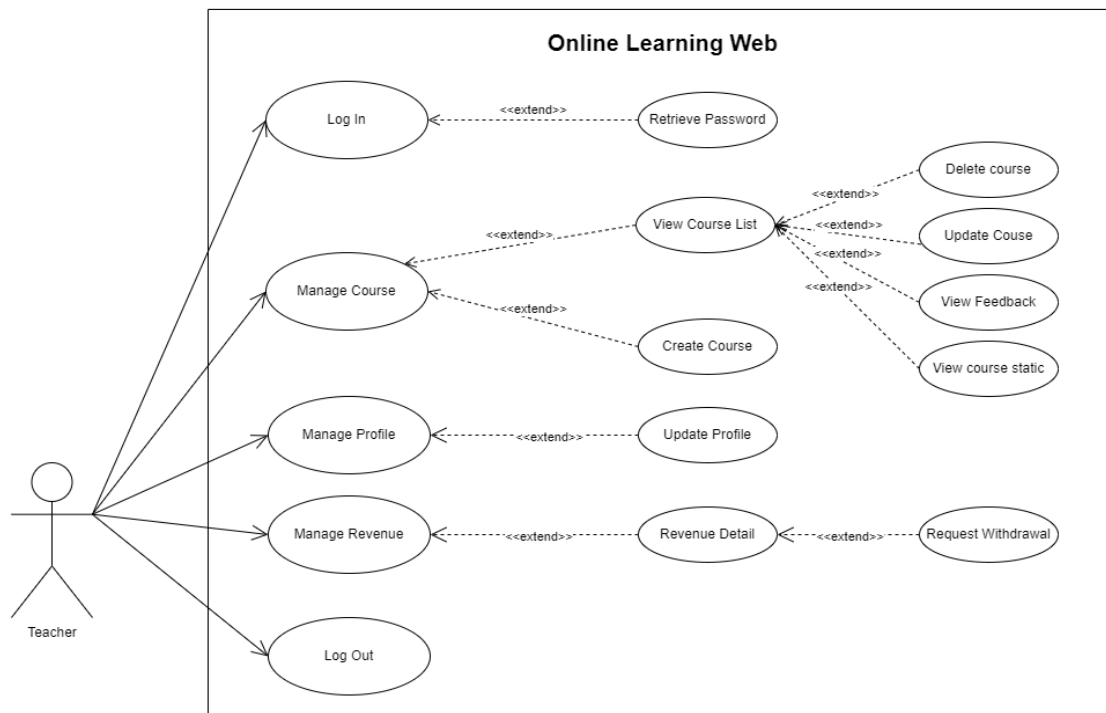
## 2.1 Overview

### a. Use Case Diagram









## b. System Actors

#	Actors	Description
1	Admin	People who manage the Online Learning system
2	Guest	The user that has not yet registered an account
3	Student	The user that has registered an account with student actor
4	Teacher	The user that has registered an account with teacher actor
5	Staff	The user that has registered an account with staff actor

## c. Use Cases List

ID	Use Case	Primary Actors	Secondary Actor
UC - 1	Sign Up For Student	Guest	N/A
UC - 2	Sign Up For Teacher	Guest	N/A
UC - 3	View List Of Course	Guest	N/A
UC - 4	View Course By Categories	Guest	N/A
UC - 5	Search Courses	Guest	N/A
UC - 6	View Popular Course	Guest	N/A
UC - 7	View Course Detail	Guest	N/A

UC - 8	View List Of Course	Student	N/A
UC - 9	View Course By Categories	Student	N/A
UC - 10	Search Courses	Student	N/A
UC - 11	View Popular Course	Student	N/A
UC - 12	View Course Details	Student	N/A
UC - 13	Add Course To Cart	Student	N/A
UC - 14	Log In	Student	N/A
UC - 15	Retrieve Password	Student	N/A
UC - 16	Add To Cart	Student	N/A
UC - 17	Payment To Enroll	Student	N/A
UC - 18	View Cart	Student	N/A
UC - 19	Delete Courses In Cart	Student	N/A
UC - 20	View Enrolled Courses	Student	N/A
UC - 21	View Course Progress	Student	N/A
UC - 22	Learn	Student	N/A
UC - 23	<i>Watching Video Lessons</i>	Student	N/A
UC - 24	<i>Reading Document</i>	Student	N/A
UC - 25	<i>Practice Test</i>	Student	N/A
UC - 26	<i>Take Notes And Bookmarks</i>	Student	N/A
UC - 27	Feedback	Student	N/A
UC - 28	Manage Information	Student	N/A
UC - 29	Update Profile	Student	N/A
UC - 30	View Order History	Student	N/A
UC - 31	Log Out	Student	N/A
UC - 32	Log In	Teacher	N/A
UC - 33	Retrieve Password	Teacher	N/A
UC - 34	Manage Course	Teacher	N/A
UC - 35	<i>View Course List</i>	Teacher	N/A
UC - 36	<i>Create Course</i>	Teacher	N/A
UC - 37	<i>View Course Static</i>	Teacher	N/A
UC - 38	<i>Delete Course</i>	Teacher	N/A
UC - 39	<i>Update Course</i>	Teacher	N/A
UC - 40	View Feedback	Teacher	N/A
UC - 41	Manage Profile	Teacher	N/A
UC - 42	Update Profile	Teacher	N/A

UC - 43	Manage Revenue	Teacher	N/A
UC - 44	Revenue Detail	Teacher	N/A
UC - 45	Request Withdrawal	Teacher	N/A
UC - 46	Log Out	Teacher	N/A
UC - 47	Manage Account	Admin	N/A
UC - 48	View Account List	Admin	N/A
UC - 49	Delete Account	Admin	N/A
UC - 50	Activate/Deactivate Account	Admin	N/A
UC - 51	Create Staff Account	Admin	N/A
UC - 52	Manage Statistics	Admin	N/A
UC - 53	Statistics Student	Admin	N/A
UC - 54	Statistics Teacher	Admin	N/A
UC - 55	Statistics Courses	Admin	N/A
UC - 56	Manage Courses	Staff	N/A
UC - 57	Approve Course Requests	Staff	N/A
UC - 58	Statistics Courses	Staff	N/A
UC - 59	Manage Transaction	Staff	N/A
UC - 60	View List Transaction	Staff	N/A
UC - 61	Accept Withdrawal	Staff	N/A
UC - 62	Manage Teacher Registration	Staff	N/A
UC - 63	View List Teacher Registrations	Staff	N/A
UC - 64	Censorship Of The Teacher's Cv	Staff	N/A
UC - 65	Add Content	Staff	N/A
UC - 66	Update Content	Staff	N/A
UC - 67	Log In	Staff	N/A
UC - 68	Retrieve Password	Staff	N/A
UC - 69	Log Out	Staff	N/A

## 2.2. Use Case Specification

### 2.2.1. Guest

#### 2.2.1.1. Sign up for student

<b>Use Case ID</b>	UC - 01	<b>Use Case Name</b>	Sign up
<b>Created By</b>	KhaNM	<b>Created Date</b>	29/05/2023
<b>Primary Actor</b>	Guest	<b>Secondary Actor</b>	N/A
<b>Description</b>	<ul style="list-style-type: none"><li>Sign up for an account on the system.</li></ul>		
<b>Pre-conditions</b>	N/A		
<b>Post-conditions</b>	<ul style="list-style-type: none"><li>When the normal flow completes successfully, a new account will be created with the role of the user and saved into a database.</li><li>The system redirects to the login page.</li></ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>Go to the Sign up screen for students.</li><li>Enter your info (full name, email, date of birth, password, re-password).</li><li>Click the "verify your email" button.</li><li>System sends to your email a OTP code.</li><li>Input OTP code.</li><li>Click the "Sign up" button.</li><li>Back to Home Page</li></ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<ul style="list-style-type: none"><li><b>E1 - The system cannot communicate with the Server.</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later."</li><li><b>E2 - Password and re-password are difference</b> The system will display an error message:"Password and re-password do not match"</li><li><b>E3 - OTP Code is incorrect.</b> The system will display an error message:"OTP code is incorrect</li><li><b>E4 - Password is incorrect.</b> The system will display an error message: "Incorrect password"</li></ul>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B5, B6, B11, B10, B19		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

### 2.2.1.2. Sign up for teacher

<b>Use Case ID</b>	UC - 02	<b>Use Case Name</b>	Sign up for teacher
<b>Created By</b>	KhaNM	<b>Created Date</b>	29/05/2023
<b>Primary Actor</b>	Guest	<b>Secondary Actor</b>	N/A
<b>Description</b>	<ul style="list-style-type: none"> <li>Sign up for a teacher account on the system.</li> </ul>		
<b>Pre-conditions</b>	N/A		
<b>Post-conditions</b>	<ul style="list-style-type: none"> <li>When the normal flow completes successfully, a new account will be created with the role of the user and saved into a database.</li> <li>The system redirects to the home page.</li> </ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>Go to the Sign up screen for teachers.</li> <li>Enter teacher info (full name, email, date of birth, password, re-password) and update teacher CV.</li> <li>Click the "verify your email" button.</li> <li>System sends to your email a OTP code.</li> <li>Input OTP code.</li> <li>Click the "Sign up" button.</li> <li>Back to the login screen.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<ul style="list-style-type: none"> <li><b>E1 - The system cannot communicate with the Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</li> <li><b>E2 -Password and re-password are difference</b> The system will display an error message: "Password and re-password do not match. Please make sure they are the same."</li> <li><b>E3 - OTP Code is incorrect.</b> The system will display an error message:"OTP code is incorrect. Please verify the code and try again."</li> <li><b>E4 - Password is incorrect.</b> The system will display an error message:"Incorrect password. Please enter the correct password and try again."</li> </ul>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B5, B6, B11, B14, B10, B19		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

### 2.2.1.3. Search Course

<b>Use Case ID</b>	UC - 05	<b>Use Case Name</b>	Search Course
<b>Created By</b>	HungNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Guest	<b>Secondary Actor</b>	N/A
<b>Description</b>	Sign up for an account on the system.		
<b>Pre-conditions</b>	The course database must be active and operational to store the courses.		
<b>Post-conditions</b>	When the normal flow completes successfully, the list of related courses will be displayed on the screen.		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. Go to the guest's homepage.</li><li>2. Enter the search information.</li><li>3. Click on "Search."</li><li>4. Show list of course has info the same with the keyword.</li></ol>		
<b>Alternative Flow</b>	<ul style="list-style-type: none"><li>• If there are no courses that match the user's entered information, the system will display the message "No suitable courses found."</li></ul>		
<b>Exceptions</b>	<ul style="list-style-type: none"><li>• <b>E1 - The system cannot communicate with Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</li></ul>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	B13		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.1.4. View course detail

<b>Use Case ID</b>	UC - 07	<b>Use Case Name</b>	View course detail
<b>Created By</b>	HungNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Guest	<b>Secondary Actor</b>	N/A
<b>Description</b>	The "View Course Detail" use case allows the guest to access detailed information about a specific course. It provides an overview of the course, including its title, description, instructor information, star rating, and any additional details.		
<b>Pre-conditions</b>	Course database is online		
<b>Post-conditions</b>	User view course details or back to course list		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. The user selects a course in the list of courses.</li><li>2. The system retrieves and displays detailed information about the selected course.(Course title, Course description, Instructor information, Additional details).</li><li>3. The user can view course detail in their screen</li><li>4. The user can scroll through the course details.</li><li>5. The user can choose to go back to the course list or perform other actions related to the course (enroll,...).</li></ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<ul style="list-style-type: none"><li>• <b>E1 - The system cannot communicate with the Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</li></ul>		
<b>Priority</b>	Low		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	N/A		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

## 2.2.2. Student

### 2.2.2.1. Login For Student

<b>Use Case ID</b>	UC - 14	<b>Use Case Name</b>	Login For Student
<b>Created By</b>	HungNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Student	<b>Secondary Actor</b>	N/A
<b>Description</b>	Allowing students to log in to the online learning app using the email and password to access educational content and other functionalities.		
<b>Pre-conditions</b>	The student account needs to exist in the database.		
<b>Post-conditions</b>	The student can interact with the application, perform learning activities, and log out of the application when necessary.		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. Accessing the login page of the system</li><li>2. The student enters their own email and password correctly.</li><li>3. Press "Login"</li><li>4. Redirect the student to the "Home Page" for students.</li></ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<b>E0 - The system cannot communicate with the Server.</b> <ul style="list-style-type: none"><li>• The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</li></ul> <b>E1 - The student enters the wrong email or password</b> <ul style="list-style-type: none"><li>• The system displays an error message "Invalid email or password" and prevents the user from accessing the system.</li></ul>		
<b>Priority</b>	Medium		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B20		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		



#### 2.2.2.2. Retrieve Password

<b>Use Case ID</b>	UC - 15	<b>Use Case Name</b>	Retrieve Password
<b>Created By</b>	HungNm	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Student	<b>Secondary Actor</b>	N/A
<b>Description</b>	The "Retrieve Password" use case allows the Student to retrieve. It allows students to create new passwords when they forget through some authentication steps.		
<b>Pre-conditions</b>	Students already have an account.		
<b>Post-conditions</b>	<ul style="list-style-type: none"><li>• The user's account password is successfully reset.</li><li>• The user can log in to the application using the new password.</li></ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. User accesses the login page of the application.</li><li>2. User clicks on the "Forgot Password" button.</li><li>3. The system displays a password retrieval form.</li><li>4. User enters their registered email address.</li><li>5. click the "get OTP" button.</li><li>6. The system verifies the provided email.</li><li>7. If the email address or username is valid and associated with an account, the system sends an OTP code to your email.</li><li>8. User enters OTP code into the provided field.</li><li>9. User submits the OTP code.</li><li>10. The system verifies the OTP code.</li><li>11. If the verification code is valid and has not expired, the system allows the user to reset their password.</li><li>12. The system displays a password reset form.</li><li>13. User enters a new password and confirms it.</li><li>14. User submits the password reset form.</li><li>15. The system verifies the password requirements and updates the user's account with the new password.</li><li>16. The system confirms the successful password reset.</li><li>17. The user is redirected to the login page and can now log in using the new password.</li></ol>		
<b>Alternative Flow</b>	N/A		

<b>Exceptions</b>	<ul style="list-style-type: none"> <li>● <b>E1 - The system cannot communicate with the Server.</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</li> <li>● <b>E2 - Invalid Email or Username:</b> <ol style="list-style-type: none"> <li>1. In step 7, if the provided email address or username is not valid or not associated with any account, the system displays an error message indicating the invalid input.</li> <li>2. The user is prompted to re-enter a valid email address.</li> <li>3. The flow continues from step 5.</li> </ol> </li> <li>● <b>E3 - Verification Code Expiration:</b> <ol style="list-style-type: none"> <li>1. In step 11, if the provided verification code is invalid or has expired, the system displays an error message indicating that the code has expired.</li> <li>2. The user is prompted to request a new verification code by following steps 2-7.</li> <li>3. The flow continues from step 7.</li> </ol> </li> <li>● <b>E4 - Password Requirements Not Met:</b> <ol style="list-style-type: none"> <li>1. In step 15, if the user's entered password does not meet the system's password requirements (e.g., length, complexity), the system displays an error message indicating the password requirements.</li> <li>2. The user is prompted to enter a new password that meets the requirements.</li> <li>3. The flow continues from step 12.</li> </ol> </li> </ul>
<b>Priority</b>	High
<b>Frequency of Use</b>	Low
<b>Business Rules</b>	B1, B5, B9, B10, B11
<b>Other Information</b>	N/A
<b>Assumptions</b>	N/A

### 2.2.2.3. View List Of Course

<b>Use Case ID</b>	UC - 08	<b>Use Case Name</b>	View List Of Course
<b>Created By</b>	DungNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Student	<b>Secondary Actor</b>	N/A
<b>Description</b>	The "View List of Courses" user case allows students to access and browse all of the courses on the online learning website.		
<b>Pre-conditions</b>	The students have logged into their accounts in the system.		
<b>Post-conditions</b>	<ul style="list-style-type: none"><li>• The student can view the list of courses available on the online learning website.</li><li>• The student can access detailed information about each course and make informed decisions about course selection.</li></ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. After logging in, the student navigates to the page to viewing courses.</li><li>2. The system retrieves and displays a list of available courses.</li><li>3. The student can use search filters to narrow down the displayed courses.</li><li>4. The system provides relevant information for each course, such as the course title, description, instructor, duration, and rating.</li><li>5. The student can click on a specific course to access its detailed page.</li><li>6. Students can add their favorite courses to the cart.</li></ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<ul style="list-style-type: none"><li>• <b>E1 - The system cannot communicate with the Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</li><li>• <b>E2 - The system are no courses available</b> The system displays a message indicating that no courses are currently offered.</li></ul>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	N/A		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.2.4. View Cart

<b>Use Case ID</b>	UC - 18	<b>Use Case Name</b>	View Cart
<b>Created By</b>	KhoiTK	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Student	<b>Secondary Actor</b>	N/A
<b>Description</b>	The "View Cart" user case allows students to access and view the contents of their cart in the online learning website. It enables them to review the courses or learning materials they have added to their cart before proceeding to checkout.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"><li>• The students have logged into their accounts in the system.</li><li>• The student must have added courses to their cart</li></ul>		
<b>Post-conditions</b>	The student can easily view the contents of their cart.		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. After logging in, the student is redirected to the website's HomePage.</li><li>2. The student clicks on the button with a cart icon.</li><li>3. The system retrieves the cart information associated with the student's account.</li><li>4. The system displays the list of courses in their cart.</li></ol>		
<b>Alternative Flow</b>	<b>2.1:</b> The student clicks on a course in the cart to view more details, the system redirects them to the respective course or learning material page		
<b>Exceptions</b>	<ul style="list-style-type: none"><li>• <b>E1 - The system cannot communicate with the Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</li><li>• <b>E1 - The cart is empty</b> The system will display the message "The Cart Is Empty".</li></ul>		
<b>Priority</b>	Low		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	N/A		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.2.5. Add to Cart

<b>Use Case ID</b>	UC - 16	<b>Use Case Name</b>	Add To Cart
<b>Created By</b>	DungNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Student	<b>Secondary Actor</b>	N/A
<b>Description</b>	The "Add to Cart" user case allows students to add courses of interest to their shopping cart on the online learning website. This functionality enables students to select multiple courses and proceed to the checkout process for enrollment.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>• The student must be logged into their account on the online learning website.</li> <li>• The desired courses must be available for enrollment.</li> </ul>		
<b>Post-conditions</b>	<ul style="list-style-type: none"> <li>• The student's selected courses are added to the shopping cart on the online learning website.</li> <li>• The student can review and modify the contents of the cart before proceeding to the checkout process.</li> </ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. After logging in, the student navigates to the course page or course list.</li> <li>2. After the student has viewed the list of courses, The student selects a course of interest by clicking the "Add to Cart" button.</li> <li>3. The system adds the selected course to the student's shopping cart.</li> <li>4. The student can review the contents of their cart, including the list of selected courses and the total price.</li> <li>5. The student has the option to remove a course from the cart if desired.</li> <li>6. When the student is ready to enroll in the selected courses, they proceed to the checkout process.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - The cart is empty.</b> The system will display an error message:"The Cart doesn't have any course".</p>		
<b>Priority</b>	Low		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	N/A		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.2.6. Payment

<b>Use Case ID</b>	UC - 17	<b>Use Case Name</b>	Payment
<b>Created By</b>	HungNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Student	<b>Secondary Actor</b>	N/A
<b>Description</b>	This use case describes the process of payment for a course enrollment in an online learning platform. The student selects the desired course, proceeds to the payment stage, and completes the transaction.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>• The students have logged into their accounts in the system.</li> <li>• The student must have added courses to their cart</li> </ul>		
<b>Post-conditions</b>	<ul style="list-style-type: none"> <li>• The student's payment is successfully processed.</li> <li>• The student is enrolled in the selected course(s) and gains access to the course materials.</li> </ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. After logging in, the student is redirected to the website's HomePage.</li> <li>2. The student clicks on the shopping cart icon.</li> <li>3. The system displays the list of selected courses.</li> <li>4. The student reviews the course and selects the courses they wish to pay for.</li> <li>5. The system displays the order details.</li> <li>6. The student selects the preferred payment method (credit card, PayPal, etc.).</li> <li>7. The student enters the necessary payment information, such as card details or login credentials.</li> <li>8. The system securely processes the payment transaction.</li> <li>9. The system confirms the successful payment and generates an enrollment confirmation or receipt.</li> </ol>		
<b>Alternative Flow</b>	<b>2.1:</b> The student can make a direct payment by clicking on the payment icon on the course details.		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server.</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E1 - The payment was not successful.</b> The system displays an error message indicating the issue with the payment method. The student can choose an alternative payment method or update their payment information. The student repeats the payment process until successful.</p>		
<b>Priority</b>	Low		
<b>Frequency of Use</b>	Low		
<b>Business Rules</b>	N/A		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

### 2.2.2.7. Watch Video Lessons

<b>Use Case ID</b>	UC - 23	<b>Use Case Name</b>	Watching Video Lessons
<b>Created By</b>	HungNM	<b>Created Date</b>	31/05/2023
<b>Primary Actor</b>	Student	<b>Secondary Actor</b>	
<b>Description</b>	The "Watch Video Lessons" user case allows students to access and view videos within a specific course on the online learning website. This functionality enables students to engage with video-based learning materials, acquire knowledge and skills through visual content.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>Students must have logged into their own accounts on the online learning website.</li> <li>The specific course selected must contain video content and must have been purchased by the respective student.</li> </ul>		
<b>Post-conditions</b>	<ul style="list-style-type: none"> <li>Students can watch the videos within a specific course on the online learning website.</li> <li>Students can control playback and watch the videos according to their personal preferences.</li> </ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>After logging in, the student searches for or selects a specific course or learning material that they have purchased.</li> <li>The system retrieves information about the chosen course or learning material and displays the video content.</li> <li>The student selects a desired video from the list.</li> <li>The system loads and plays the video within the website's video player</li> </ol>		
<b>Alternative Flow</b>	<b>2.1:</b> Students can follow their course curriculum to watch videos in a sequential manner according to each course		
<b>Exceptions</b>	<b>E1 - The system cannot communicate with the Server.</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".		
<b>Priority</b>	High		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	N/A		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

### 2.2.2.8 Read Document

<b>Use Case ID</b>	UC - 24	<b>Use Case Name</b>	Reading Document
<b>Created By</b>	HungNM	<b>Created Date</b>	31/05/2023
<b>Primary Actor</b>	Student	<b>Secondary Actor</b>	
<b>Description</b>	The "Reading Document" user case allows students to access and read documents within a specific course or learning material on the online learning website. This functionality enables students to engage with textual content, study course materials, and acquire knowledge and information.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>Students must have logged into their own accounts on the online learning website.</li> <li>The specific course selected must contain documents and must have been purchased by the respective student.</li> </ul>		
<b>Post-conditions</b>	The student can access and read documents within the specific course or learning material on the online learning website.		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>After logging in, the student searches for or selects a specific course they have purchased that they want to access.</li> <li>The system retrieves information about the chosen course and displays the available documents.</li> <li>The student selects a desired document from the list.</li> <li>The system loads and displays the document</li> <li>After reading the document, the student can choose to "Mark as Completed" to indicate that the task has been completed.</li> </ol>		
<b>Alternative Flow</b>	<b>2.1:</b> Students can follow their course curriculum to read document in a sequential manner according to each course		
<b>Exceptions</b>	<b>E1 - The system cannot communicate with the Server.</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".		
<b>Priority</b>	High		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	N/A		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

### 2.2.2.9 Practice Test



<b>Use Case ID</b>	UC - 25	<b>Use Case Name</b>	Practice Test
<b>Created By</b>	HungNM	<b>Created Date</b>	31/05/2023
<b>Primary Actor</b>	Student	<b>Secondary Actor</b>	
<b>Description</b>	The "Practice Test" user case allows students to engage in practice tests on the online learning website. The types of assessment formats can include multiple-choice, true/false. This functionality enables students to test their knowledge and understanding of the course material, identify areas for improvement, and prepare for assessments or exams.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>• The student must be logged into their account on the online learning website.</li> <li>• The specific course chosen must have practice tests available.</li> </ul>		
<b>Post-conditions</b>	<ul style="list-style-type: none"> <li>• The student can answer questions, receive immediate feedback, and review their answers.</li> <li>• The student's performance and progress are recorded for tracking and assessment purposes.</li> </ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. After logging in, the student searches for or selects a specific course or learning material that includes practice tests.</li> <li>2. The system retrieves information about the chosen course or learning material and displays the available practice tests.</li> <li>3. The student selects a desired practice test from the list.</li> <li>4. The system presents the practice test, including the questions and answer choices.</li> <li>5. The student reads and answers each question, selecting the appropriate response.</li> <li>6. For each test, there will be a different time limit. Users can submit the test before the time limit expires, or the system will automatically submit the test when the time runs out.</li> </ol>		
<b>Alternative Flow</b>	<b>2.1:</b> Students can follow their course curriculum to practice test in a sequential manner according to each course		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server.</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - The user exits or navigates away from the system while taking a test</b> Their progress may be submitted.</p>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	N/A		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

## 2.2.3. Teacher

### 2.2.3.1. View Course List

<b>Use Case ID</b>	UC - 35	<b>Use Case Name</b>	View Course List
<b>Created By</b>	ThaiLA	<b>Created Date</b>	02-06-2023
<b>Primary Actor</b>	Teacher	<b>Secondary Actor</b>	N/A
<b>Description</b>	The "View Course List" use case allows them to view all the courses available on their own system		
<b>Pre-conditions</b>	Log in with the teacher account approved by the system. Teachers have one or more courses on the system.		
<b>Post-conditions</b>	Teachers shall access and view details with the courses they have created		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. The teacher navigates to the "Dashboard for teacher" section of the learning management system.</li><li>2. The system shall display a list of courses that have been created by the respective teacher account.</li><li>3. The teacher shall view the course titles, descriptions, enrolled students, and other relevant information.</li><li>4. The teacher shall click on a specific course to access the course details, such as syllabus, schedule.</li><li>5. The teacher shall sort the course list based on different parameters, such as course name, subject.</li><li>6. The teacher shall search their course by keyword.</li></ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<ul style="list-style-type: none"><li>● <b>E1: The system cannot communicate with the Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</li><li>● <b>E2: No courses created</b> The system displays the message "You do not have any courses on the system".</li></ul>		
<b>Priority</b>	Medium		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	B13		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

### 2.2.3.2. Create Course

<b>Use Case ID</b>	UC - 36	<b>Use Case Name</b>	Create Course
<b>Created By</b>	ThaiLA	<b>Created Date</b>	01/06/2023
<b>Primary Actor</b>	Teacher	<b>Secondary Actor</b>	N/A
<b>Description</b>	This use case describes the process of a teacher creating a new course in a learning management system.		
<b>Pre-conditions</b>	Log in with the teacher account approved by the system.		
<b>Post-conditions</b>	The new course is created and and submitted to the system for approval		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The teacher navigates to the "Dashboard for teacher" section of the learning management system.</li> <li>2. The teacher selects the "Create New Course" option.</li> <li>3. The system presents a form for teachers to enter detailed information about the course, including course name, description, subject, price, and other relevant information.</li> <li>4. The teacher fills in the required fields and optionally provides additional information.</li> <li>5. The teacher can upload course materials, such as lecture slides, documents, or multimedia files.</li> <li>6. The teacher saves the course details and confirms the creation of the course.</li> <li>7. the course is submitted to the system and waiting for confirmation, the teacher can see the status of the course in the waiting list</li> <li>8. In case the course is approved, the course will be public on the system so that students can buy the course. Teachers can view and manage their courses in the "View Course List" section</li> </ol>		
<b>Alternative Flow</b>	<b>8.1: the course is not approved</b> <ul style="list-style-type: none"> <li>+ The system will give the teacher the reason why the course is not approved in the waiting list.</li> <li>+ Teachers can modify the course content according to the system's criteria. They can contact the system via email or the system's phone number</li> </ul>		
<b>Exceptions</b>	<ul style="list-style-type: none"> <li>● <b>E1 - The system cannot communicate with the Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</li> <li>● <b>E2 - Required fields missing</b> The system highlights the missing fields and prompts the teacher to provide the necessary information.</li> </ul>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B29, B23, B12, B16		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

### 2.2.1.3. View course static

<b>Use Case ID</b>	UC - 37	<b>Use Case Name</b>	View course static
<b>Created By</b>	ThaiLA	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Teacher	<b>Secondary Actor</b>	N/A
<b>Description</b>	This use case describes a process by which teachers view statistics and analysis related to a course in an online learning management system.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>Log in with the teacher account approved by the system.</li> <li>Teachers have one or more courses on the system.</li> </ul>		
<b>Post-conditions</b>	Teachers view performance, the number of students participating in the course, the revenue of the course,... through statistics and analysis.		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>The teacher navigates to the "Dashboard for teacher" section of the learning management system.</li> <li>The teacher selects the "View Course List" option.</li> <li>The system displays the course page with an overview of the course's information and options.</li> <li>The teacher selects the "View Statistics" option for the course.</li> <li>The teacher selects the "View Statistics" or "Analytics" option for the course <ul style="list-style-type: none"> <li>Enrollment numbers: Total number of students enrolled in the course.</li> <li>Completion rates: Percentage of students who have completed the course.</li> <li>Quiz or assignment scores: Average scores or distribution of scores for assessments.</li> <li>Revenue: total amount earned by the course.</li> <li>Rate: average rating rate.</li> <li>Participation time: View the number of students participating by month of the year or a chart</li> </ul> </li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<ul style="list-style-type: none"> <li><b>E1 - The system cannot communicate with the Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later"</li> </ul>		
<b>Priority</b>	Medium		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B31		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.1.4. Update Course

<b>Use Case ID</b>	UC - 39	<b>Use Case Name</b>	Update Course
<b>Created By</b>	ThaiLA	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Teacher	<b>Secondary Actor</b>	N/A
<b>Description</b>	This use case describes the process of updating a course by a teacher. The teacher can modify various aspects of the course, such as its title, description, materials.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>Log in with the teacher account approved by the system.</li> <li>Teachers have one or more courses on the system.</li> <li>The course to be updated must already exist in the system</li> </ul>		
<b>Post-conditions</b>	New content of the course will be submitted to the system for approval		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>The teacher navigates to the "Dashboard for teacher" section of the learning management system.</li> <li>The teacher selects the "View Course List" option.</li> <li>The teacher selects the course they want to update from their course list.</li> <li>The system displays the course details, including its current title, description, materials.</li> <li>teachers choose the week in which they want to modify the content, They can also add a week of classes for them.</li> <li>The system displays the current course content, the teacher can directly edit the course content on that screen.</li> <li>After completing the course correction, the teacher submits it to the system and the course is on the waiting list for approval</li> <li>If the course is approved, the changes in the course will be updated and made public. Teachers can view and manage their courses in the "View Course List" section</li> </ol>		
<b>Alternative Flow</b>	<ul style="list-style-type: none"> <li><b>6.1: Teachers don't want to change anymore</b> The system cancels the update and returns the teacher to the course details page.</li> <li><b>8.1: the course is not approved</b> <ul style="list-style-type: none"> <li>+ The system will give the teacher the reason why the course is not approved in the waiting list.</li> <li>+ Teachers can modify the course content according to the system's criteria. They can contact the system via email or the system's phone number</li> </ul> </li> </ul>		
<b>Exceptions</b>	<ul style="list-style-type: none"> <li><b>E1 - The system cannot communicate with the Server.</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</li> <li><b>E2 - Required fields missing</b> The system highlights the missing fields and prompts the teacher to provide the necessary information.</li> </ul>		
<b>Priority</b>	Medium		

<b>Frequency of Use</b>	Medium
<b>Business Rules</b>	B29, B23, B32, B12, B16
<b>Other Information</b>	N/A
<b>Assumptions</b>	N/A

#### 2.2.1.5. Delete Course

<b>Use Case ID</b>	UC - 38	<b>Use Case Name</b>	<i>Delete Course</i>
<b>Created By</b>	ThaiLA	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Teacher	<b>Secondary Actor</b>	N/A
<b>Description</b>	This use case describes the process of deleting a course by a teacher. The teacher can remove a course from the system, which will result in the permanent deletion of all associated data, including enrolled students, course materials, and assignments.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>Log in with the teacher account approved by the system.</li> <li>Teachers have one or more courses on the system.</li> <li>The course to be deleted must already exist in the system.</li> <li>The course has no effect on other data</li> </ul>		
<b>Post-conditions</b>	<ul style="list-style-type: none"> <li>The course is successfully deleted from the system.</li> <li>All associated data, including enrolled students, course materials, and assignments, are permanently removed.</li> </ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>The teacher navigates to the "Dashboard for teacher" section of the learning management system.</li> <li>The teacher selects the "View Course List" option.</li> <li>teacher can select "delete course" button with corresponding course</li> <li>The system removes the course from the system along with all associated data.</li> <li>The system confirms the successful deletion and notifies the teacher.</li> </ol>		
<b>Alternative Flow</b>	<b>2.1</b> If the teacher decides not to delete the course, they can cancel the deletion process. <ul style="list-style-type: none"> <li>The system cancels the deletion and returns the teacher to the course details page.</li> </ul>		
<b>Exceptions</b>	<b>E1 - The system cannot communicate with the Server.</b> <ul style="list-style-type: none"> <li>The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</li> </ul> <b>E2 - Error System</b> <ul style="list-style-type: none"> <li>If there is a system error during the deletion process, such as a database failure, the system displays an error message "System error, please try again later".</li> </ul>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Medium		

<b>Business Rules</b>	B32
<b>Other Information</b>	N/A
<b>Assumptions</b>	N/A

#### 2.2.1.6. View Feedback

<b>Use Case ID</b>	UC - 40	<b>Use Case Name</b>	View Feedback
<b>Created By</b>	ThaiLA	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Teacher	<b>Secondary Actor</b>	N/A
<b>Description</b>	This use case describes the process of a teacher viewing feedback provided by students for a specific course. The teacher can access and review feedback to gain insights into the students' experiences, opinions, and suggestions for improvement.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>Log in with the teacher account approved by the system.</li> <li>Teachers have one or more courses on the system.</li> <li>The course must have students who have provided feedback.</li> </ul>		
<b>Post-conditions</b>	<ul style="list-style-type: none"> <li>The teacher has successfully viewed the feedback provided by students.</li> <li>The teacher can utilize the feedback to make informed decisions or improvements to the course.</li> </ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>The teacher navigates to the "Dashboard for teacher" section of the learning management system.</li> <li>The teacher selects the "View Course List" option.</li> <li>The teacher choose course they want to view feedback</li> <li>The teacher may have the option to filter or sort the feedback based on different criteria (e.g., date, topic, or student).</li> <li>The teacher can close or exit the feedback view when finished.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<ul style="list-style-type: none"> <li><b>E1 - The system cannot communicate with the Server.</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</li> <li><b>E2 - There are no feedback yet</b> If there is no feedback available for the selected course, the system should display a message "No feedback at the moment, please come back later"</li> </ul>		
<b>Priority</b>	Medium		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B31		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

### 2.2.1.7. Revenue Detail

<b>Use Case ID</b>	UC - 44	<b>Use Case Name</b>	Revenue Detail
<b>Created By</b>	ThaiLA	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Teacher	<b>Secondary Actor</b>	N/A
<b>Description</b>	This use case describes the process of a teacher accessing revenue details and earnings related to their courses in a learning management system.		
<b>Pre-conditions</b>	Log in with the teacher account approved by the system. Teachers have one or more courses on the system. The teacher has created and published at least one paid course.		
<b>Post-conditions</b>	The teacher gains access to revenue details and earnings information associated with their courses.		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The teacher navigates to the "Dashboard for teacher" section of the learning management system.</li> <li>2. The teacher selects the "Revenue" option.</li> <li>3. The system retrieves and displays the revenue details and earnings summary specific to the teacher's courses.</li> <li>4. The teacher may have the option to filter or sort the feedback based on different criteria (e.g., date, topic, or student).</li> <li>5. The teacher can close or exit the feedback view when finished.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server.</b></p> <ul style="list-style-type: none"> <li>+ The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</li> </ul> <p><b>E2 - No revenue details available</b></p> <ul style="list-style-type: none"> <li>+ If there is no feedback available for the selected course, the system should display a message "No feedback at the moment, please come back later"</li> <li>+ If there are no revenue details or earnings associated with the teacher's courses, the system displays a message "No one has purchased your course yet, try again later".</li> </ul>		
<b>Priority</b>	Medium		
<b>Frequency of Use</b>	Low		
<b>Business Rules</b>	B31		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		



### 2.2.1.8. Request Withdrawal

<b>Use Case ID</b>	UC - 45	<b>Use Case Name</b>	Request Withdrawal
<b>Created By</b>	ThaiLA	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Teacher	<b>Secondary Actor</b>	N/A
<b>Description</b>	This use case describes the process of a teacher requesting a withdrawal of their earnings from a learning management system.		
<b>Pre-conditions</b>	<ul style="list-style-type: none"> <li>Log in with the teacher account approved by the system.</li> <li>Teachers have one or more courses on the system.</li> <li>The teacher has created and published at least one paid course.</li> </ul>		
<b>Post-conditions</b>	<ul style="list-style-type: none"> <li>The teacher's withdrawal request is submitted for processing by the system.</li> <li>The teacher's earnings balance is updated accordingly.</li> </ul>		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>The teacher navigates to the "Dashboard for teacher" section of the learning management system.</li> <li>The teacher selects the "Revenue Detail" option.</li> <li>The teacher selects the "Request Withdrawal" option.</li> <li>The system displays the teacher's current earnings balance and available withdrawal options.</li> <li>The teacher selects the desired withdrawal method, such as bank transfer, PayPal, or manual payout.</li> <li>The teacher specifies the withdrawal amount.</li> <li>The teacher confirms the withdrawal request.</li> <li>The system validates the withdrawal request and updates the teacher's earnings balance accordingly.</li> <li>The system initiates the withdrawal process, which may involve additional verification or approval steps depending on the chosen withdrawal method.</li> <li>The system notifies the teacher of the withdrawal request status, such as "Pending," "Processing," or "Completed."</li> <li>If the withdrawal is successful, the teacher receives the requested amount</li> </ol>		
<b>Alternative Flow</b>	<b>AF - 01: Insufficient earnings balance</b> <ul style="list-style-type: none"> <li>If the amount the teacher withdraws is larger than the available balance on the system, the system will display the message "Your balance is not enough, please try again"</li> <li>The teacher can choose to accumulate more earnings or contact support for further assistance.</li> </ul>		
<b>Exceptions</b>	<ul style="list-style-type: none"> <li><b>E1 - The system cannot communicate with the Server.</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</li> <li><b>E2 - Payment processing errors</b> If there is an error or problem in the payment processing stage, such as a failed bank transfer or payment gateway error, the system will notify the teacher, the teacher can contact the call center or email to get help.</li> </ul>		
<b>Priority</b>	High		

<b>Frequency of Use</b>	Medium
<b>Business Rules</b>	B31
<b>Other Information</b>	N/A
<b>Assumptions</b>	N/A

## 2.2.4. Admin

### 2.2.4.1. View Account List

<b>Use Case ID</b>	UC - 48	<b>Use Case Name</b>	View Account List
<b>Created By</b>	KhaNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Admin	<b>Secondary Actor</b>	N/A
<b>Description</b>	The administrator shall view the list of accounts on the website		
<b>Pre-conditions</b>	The Admin has logged into the system.		
<b>Post-conditions</b>	N/A		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The Admin accesses the user account management page.</li> <li>2. The system displays the list of accounts.</li> <li>3. The Admin can apply filters or search to find specific accounts.</li> <li>4. The system displays the account list according to the Admin's request.</li> <li>5. The Admin can view detailed information about each account by clicking on the respective account in the list.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server:</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - No user accounts found:</b> The system displays a message indicating that no user accounts are available.</p>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	High		
<b>Business Rules</b>	B4		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.4.2. Delete Account

<b>Use Case ID</b>	UC - 49	<b>Use Case Name</b>	Delete Account
<b>Created By</b>	KhaNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Admin	<b>Secondary Actor</b>	N/A
<b>Description</b>	The admin shall delete an account from the system.		
<b>Pre-conditions</b>	The admin has logged into the system. Admin needs to select the account to delete. The account has no effect on other data		
<b>Post-conditions</b>	The account is successfully deleted from the system.		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. The Admin accesses the account management section.</li><li>2. The Admin selects the account to be deleted.</li><li>3. The system prompts for confirmation before proceeding with the deletion.</li><li>4. The Admin confirms the deletion.</li><li>5. The system deletes the account and removes all associated data.</li></ol>		
<b>Alternative Flow</b>	<ol style="list-style-type: none"><li>4.1. The Admin decides not to proceed with the deletion.</li><li>5. The system cancels the deletion process and returns the Admin to the user account management section.</li></ol>		
<b>Exceptions</b>	<b>E1 - The system cannot communicate with the Server:</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later". <b>E2 - Insufficient privileges:</b> If the Admin does not have sufficient permissions to delete accounts, the system displays an error message indicating that the action is not allowed.		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Low		
<b>Business Rules</b>	B4, B22		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.4.3. Activate/Deactivate Account

<b>Use Case ID</b>	UC - 50	<b>Use Case Name</b>	Delete Account
<b>Created By</b>	KhaNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Admin	<b>Secondary Actor</b>	N/A
<b>Description</b>	The Admin shall activate or deactivate a user account in the system.		
<b>Pre-conditions</b>	The admin has logged into the system. Admin needs to select the account to activate or deactivate.		
<b>Post-conditions</b>	The account is successfully activated or deactivated from the system.		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. The Admin accesses the user account management section.</li><li>2. The Admin selects the user account to be activated or deactivated.</li><li>3. The Admin chooses the action to be performed (activate or deactivate).</li><li>4. The system updates the account status accordingly.</li></ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<b>E1 - The system cannot communicate with the Server:</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Moderate		
<b>Business Rules</b>	B4		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.4.4. Create staff account

<b>Use Case ID</b>	UC - 51	<b>Use Case Name</b>	Create staff account
<b>Created By</b>	KhaNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Admin	<b>Secondary Actor</b>	N/A
<b>Description</b>	The Admin shall create a new staff account in the system.		
<b>Pre-conditions</b>	The admin has logged into the system. The admin has information about the staff.		
<b>Post-conditions</b>	A new staff account is successfully created in the system.		
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. The Admin accesses the account management section.</li><li>2. The Admin selects the option to create a new staff account.</li><li>3. The system presents a form to enter the necessary details for the new staff account, such as name, email, and role.</li><li>4. The Admin fills in the required information for the staff account.</li><li>5. The Admin submits the form to create the staff account.</li><li>6. The system validates the entered information.</li><li>7. If the information is valid, the system creates a new staff account with the provided details.</li><li>8. The system displays a success message confirming the creation of the staff account.</li></ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<b>E1 - The system cannot communicate with the Server:</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later". <b>E2 - Invalid information</b> If the Admin entered invalid information, the system will display an error message indicating invalid fields and prompting the Admin to provide the valid information.		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Moderate		
<b>Business Rules</b>	B4		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.4.5. Statistics Student

<b>Use Case ID</b>	UC - 53	<b>Use Case Name</b>	Statistics Student
<b>Created By</b>	KhaNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Admin	<b>Secondary Actor</b>	N/A
<b>Description</b>	The Admin shall view statistics of students in the system.		
<b>Pre-conditions</b>	The admin has logged into the system.		
<b>Post-conditions</b>	N/A		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The Admin accesses the statistics section in the admin dashboard.</li> <li>2. The system presents options for different statistical categories, such as number of students registered, number of students completing the course, rate of completion of the course, number of students by age, etc.:</li> <li>3. The Admin selects the desired statistical category.</li> <li>4. The system generates and displays the corresponding statistics based on the selected category.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server:</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - No statistics available:</b> If there are no statistics available for the selected category, the system displays a message indicating that no statistics are currently available.</p>		
<b>Priority</b>	Medium		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B4		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.4.6. Statistics Teacher

<b>Use Case ID</b>	UC - 54	<b>Use Case Name</b>	Statistics Teacher
<b>Created By</b>	KhaNM	<b>Created Date</b>	30/05/2023
<b>Primary Actor</b>	Admin	<b>Secondary Actor</b>	N/A
<b>Description</b>	The Admin shall view statistics of students in the system.		
<b>Pre-conditions</b>	The admin has logged into the system.		
<b>Post-conditions</b>	N/A		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The Admin accesses the statistics section in the admin dashboard.</li> <li>2. The system presents options for different statistical categories, such as number of courses created by the teacher, number of students enrolled in the teacher's courses, ratings and feedback from students regarding the teacher's courses.</li> <li>3. The Admin selects the desired statistical category.</li> <li>4. The system generates and displays the corresponding statistics based on the selected category.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server:</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - No statistics available:</b> If there are no statistics available for the selected category, the system displays a message indicating that no statistics are currently available.</p>		
<b>Priority</b>	Medium		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B4		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.4.7. Statistics Course

<b>Use Case ID</b>	UC - 55	<b>Use Case Name</b>	Statistics Course
<b>Created By</b>	KhaNM	<b>Created Date</b>	01/06/2023
<b>Primary Actor</b>	Admin	<b>Secondary Actor</b>	N/A
<b>Description</b>	The Admin shall view statistics of course in the system.		
<b>Pre-conditions</b>	The admin has logged into the system.		
<b>Post-conditions</b>	N/A		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The Admin accesses the statistics section in the admin dashboard.</li> <li>2. The system presents options for different statistical categories, such as number of courses, student reviews and feedback, number of visits and duration of visits, completion rate of the course.</li> <li>3. The Admin selects the desired statistical category.</li> <li>4. The system generates and displays the corresponding statistics based on the selected category.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server:</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - No statistics available:</b> If there are no statistics available for the selected category, the system displays a message indicating that no statistics are currently available.</p>		
<b>Priority</b>	Medium		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B4		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		



## 2.2.5. Staff

### 2.2.5.1. Approve course requests

<b>Use Case ID</b>	UC - 57	<b>Use Case Name</b>	Approve course requests
<b>Created By</b>	KhaNM	<b>Created Date</b>	01/06/2023
<b>Primary Actor</b>	Staff	<b>Secondary Actor</b>	N/A
<b>Description</b>	The staff shall review and approve course requests submitted by teachers in the system.		
<b>Pre-conditions</b>	The Staff is currently logged into the system. The teacher uploaded the course to the system and sent a request to approve.		
<b>Post-conditions</b>	The course is either approved or rejected in the system.		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The Staff accesses the course requests section in the admin dashboard.</li> <li>2. The system presents a list of pending course requests from teachers.</li> <li>3. The Staff selects a specific course request to review. The course switches to reviewing status.</li> <li>4. The system displays all information of the selected course including course name, description, video, documents.</li> <li>5. The Staff reviews the course request and evaluates its suitability based on predefined criteria or guidelines.</li> <li>6. The Staff makes a decision to either approve or reject the course request.</li> <li>7. If the course request is approved, the system updates the course status as approved and notifies the teacher.</li> <li>8. If the course request is rejected, the system updates the course status as rejected and notifies the teacher.</li> <li>9. The Staff can provide additional comments or feedback to the teacher regarding the decision.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server:</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - No course requests available:</b> If there are no pending course requests from teachers, the system displays a message indicating that there are currently no requests to review.</p>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B4, B16		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.5.2. View List Transaction

<b>Use Case ID</b>	UC - 60	<b>Use Case Name</b>	View List Transaction
<b>Created By</b>	KhaNM	<b>Created Date</b>	01/06/2023
<b>Primary Actor</b>	Staff	<b>Secondary Actor</b>	N/A
<b>Description</b>	The staff shall view a list of transactions in the system, including details about user purchases, payments.		
<b>Pre-conditions</b>	The Staff is currently logged into the system.		
<b>Post-conditions</b>	N/A		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The staff accesses the transaction management section in the admin dashboard.</li> <li>2. The system presents a list of transactions with relevant information, such as transaction ID, transaction type, and amount.</li> <li>3. The staff can apply filters or search criteria to narrow down the list of transactions based on specific parameters, such as date range, user ID, or transaction type.</li> <li>4. The system displays the filtered list of transactions according to the applied criteria.</li> <li>5. The staff can view additional details of a specific transaction by selecting it from the list.</li> <li>6. The system presents a detailed view of the selected transaction, including payment details and any related information.</li> <li>7. The staff reviews and analyzes the transaction details as needed.</li> </ol>		
<b>Alternative Flow</b>	N/A		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server:</b> The system will display an error message: "The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - No course transactions available:</b> If there are no transactions recorded in the system or no transactions matching the applied filters, the system displays a message indicating that no transactions are currently available.</p>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B4		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

### 2.2.5.3. Accept withdrawal

<b>Use Case ID</b>	UC - 61	<b>Use Case Name</b>	Accept withdrawal
<b>Created By</b>	KhaNM	<b>Created Date</b>	01/06/2023
<b>Primary Actor</b>	Staff	<b>Secondary Actor</b>	N/A
<b>Description</b>	The staff shall review and accept a withdrawal request submitted by a teacher in the system.		
<b>Pre-conditions</b>	The Staff is currently logged into the system. The teacher sent the withdrawal request successfully		
<b>Post-conditions</b>	The withdrawal request is successfully accepted in the system. Money will be transferred from the online wallet to the teacher's bank account		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The Staff accesses the withdrawal requests section in the admin dashboard.</li> <li>2. The system presents a list of pending withdrawal requests from teachers.</li> <li>3. The Staff selects a specific withdrawal request to review. That requests switches to reviewing status.</li> <li>4. The system displays the details of the selected withdrawal request, including the teacher information.</li> <li>5. The Staff reviews the withdrawal request and evaluates its validity based on predefined criteria or guidelines.</li> <li>6. The Staff makes a decision to accept the withdrawal request.</li> <li>7. The system notifies the user about the acceptance of their withdrawal request.</li> </ol>		
<b>Alternative Flow</b>	<ol style="list-style-type: none"> <li>6.1. The Staff selects the option to reject the withdrawal request.</li> <li>7. The system updates the status of the withdrawal request as rejected.</li> <li>8. The system notifies the user about the rejection of their withdrawal request.</li> </ol>		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server:</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - No course withdrawal available:</b> If there are no pending withdrawal requests from users, the system displays a message indicating that there are currently no requests to review.</p>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B4, B27		
<b>Other Information</b>	N/A		
<b>Assumptions</b>	N/A		

#### 2.2.5.4. Censorship of the teacher's cv

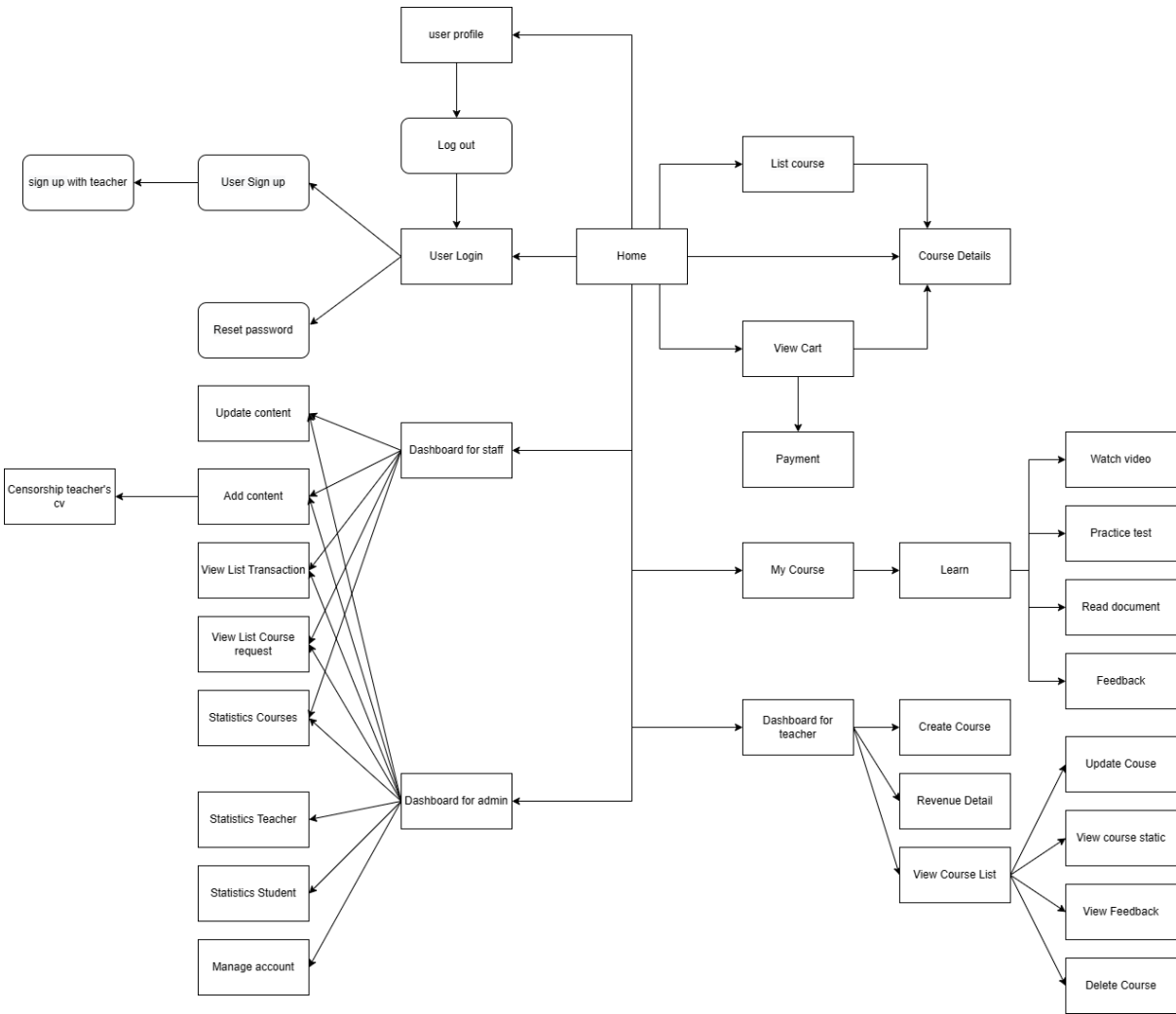
<b>Use Case ID</b>	UC - 64	<b>Use Case Name</b>	Censorship of the teacher's cv
<b>Created By</b>	KhaNM	<b>Created Date</b>	02/06/2023
<b>Primary Actor</b>	Staff	<b>Secondary Actor</b>	N/A
<b>Description</b>	The staff shall review and censor the CV (Curriculum Vitae) submitted by a user who wishes to become a teacher in the system. The purpose is to evaluate whether the user meets the necessary qualifications and criteria to be approved as a teacher.		
<b>Pre-conditions</b>	The Staff is currently logged into the system. The teacher uploads the CV successfully.		
<b>Post-conditions</b>	The CV is successfully reviewed and evaluated by the Staff member. If the teacher is approved, the account will be active as a teacher		
<b>Normal Flow</b>	<ol style="list-style-type: none"> <li>1. The Staff member accesses the CV review section in the admin dashboard.</li> <li>2. The system presents a list of pending CVs submitted by users who want to become teachers.</li> <li>3. The Staff member selects a specific CV to review. That CV switches to reviewing status.</li> <li>4. The system displays the details of the selected CV, including the user's qualifications, experience, and other relevant information.</li> <li>5. The Staff member evaluates the CV based on predefined criteria or guidelines to determine if the user meets the requirements for becoming a teacher.</li> <li>6. The Staff member makes a decision to approve or reject the user as a teacher: Approved.</li> <li>7. The system updates the user's account status to reflect their new role as a teacher.</li> <li>8. The system grants the user appropriate access rights and functionalities related to teaching.</li> <li>9. The system notifies the user about their approval as a teacher.</li> </ol>		
<b>Alternative Flow</b>	<ol style="list-style-type: none"> <li>6.1. The Staff member makes a decision to approve or reject the user as a teacher: Rejected.</li> <li>7. The system notifies the user about the rejection of their CV and explains the reasons for the rejection.</li> <li>8. The user's account remains unchanged, and they do not gain teacher privileges.</li> </ol>		
<b>Exceptions</b>	<p><b>E1 - The system cannot communicate with the Server:</b> The system will display an error message:"The system cannot communicate with the server. Please check your internet connection and try again later".</p> <p><b>E2 - No CVs available for review:</b> If there are no pending CVs submitted by users who wish to become teachers, the system displays a message indicating that there are currently no CVs to review.</p>		
<b>Priority</b>	High		
<b>Frequency of Use</b>	Medium		
<b>Business Rules</b>	B4, B14		

Other Information	N/A
Assumptions	N/A

### 3. Functional Requirements

#### 3.1 System Functional Overview

##### a. Screen Flow



##### b. Screen Details

#	Feature	Screen	Description
1	Home	Log in	Screen for the user to sign in into the system.
2	Home	Register	Screen for guests to create an account.
3	Home	Forgot password	Screen for the user to reset the password.
4	Student, Guest	Home	The screen shows some courses,....

5	Student, Teacher	Change password	The screen for the user to change the password.
6	Student	List Course	The screen shows some filter courses.
7	Student, Teacher, Staff	User profile	The screen shows useful information.
8	Student,	Course Details	The screen where students can view any more course information.
9	Student	View My Course	The screen where students view your courses in the system.
10	Student	View Cart	The screen displays a clear list of the courses that the user has added.
11	Student	Sign Out	The popup for the users to sign out the system.
12	Student	Learning	The screen displays a list of lessons within the course.
13	Teacher	Dashboard For Teacher	The screen displays some information related to the teacher's course.
14	Teacher	Create Course	The screen displays blank fields where the teacher can add lesson information.
15	Teacher	Revenue Details	The screen displays the balance changes of the teacher's account.
16	Teacher	View Course List	The screen displays a list of courses created by the teacher.
17	Teacher	Update Course	The screen displays the lesson details and editing tools.
18	Teacher	View Course Static	The screen displays detailed information about the number of learners and other related information.
19	Teacher	View Feedback	The screen displays feedback information from students.
20	Staff,Admin	Dashboard	The screen displays an overview of the courses or the system's general information.
21	Staff,Admin	Add Content	The screen displays the required information to be added to the website content.
22	Staff,Admin	View List Transaction	The screen displays transaction information of the entire system.
23	Staff,Admin	View List Course Request	The screen displays detailed information of the course that requires approval.
24	Staff,Admin	Static Course	The screen displays detailed information of all courses within the system.

25	Admin	Static Teacher	The screen displays specific information about all the teachers in the system.
26	Admin	Static Student	The screen displays statistics about the number of students studying on the system according to time intervals, charts
27	Admin	Manage Account	the screen shows all accounts in the system, Admin can search by name, ID and delete account
28	Staff	Censorship teacher's cv	The screen where the admin manages reports.
29	Student	Watch video	This screen shows the lecture video
30	Student	Practice test	display questions with answers, students can choose the answer
31	Student	Feedback	Students can submit reviews by choosing the number of stars for the course and writing a review of the course
32	Admin	Dashboard	The screen shows the functions admin can do in the system

### c. Screen Authorization

	Screen	Teacher	Student	Staff	Guest	Admin
	Home	X	X	X	X	X
	Sign Up With Teacher				X	
	User Sign Up				X	
	Reset Password	X	X	X		
	User Profile	X	X	X		X
	List Course		X			
	Course Details		X			
	View Cart		X			
	Dashboard For Staff			X		
	Payment		X			
	My Course		X			
	Learn		X			
	Watch Video		X			
	Practice Test		X			
	Read Document		X			
	Feedback		X			

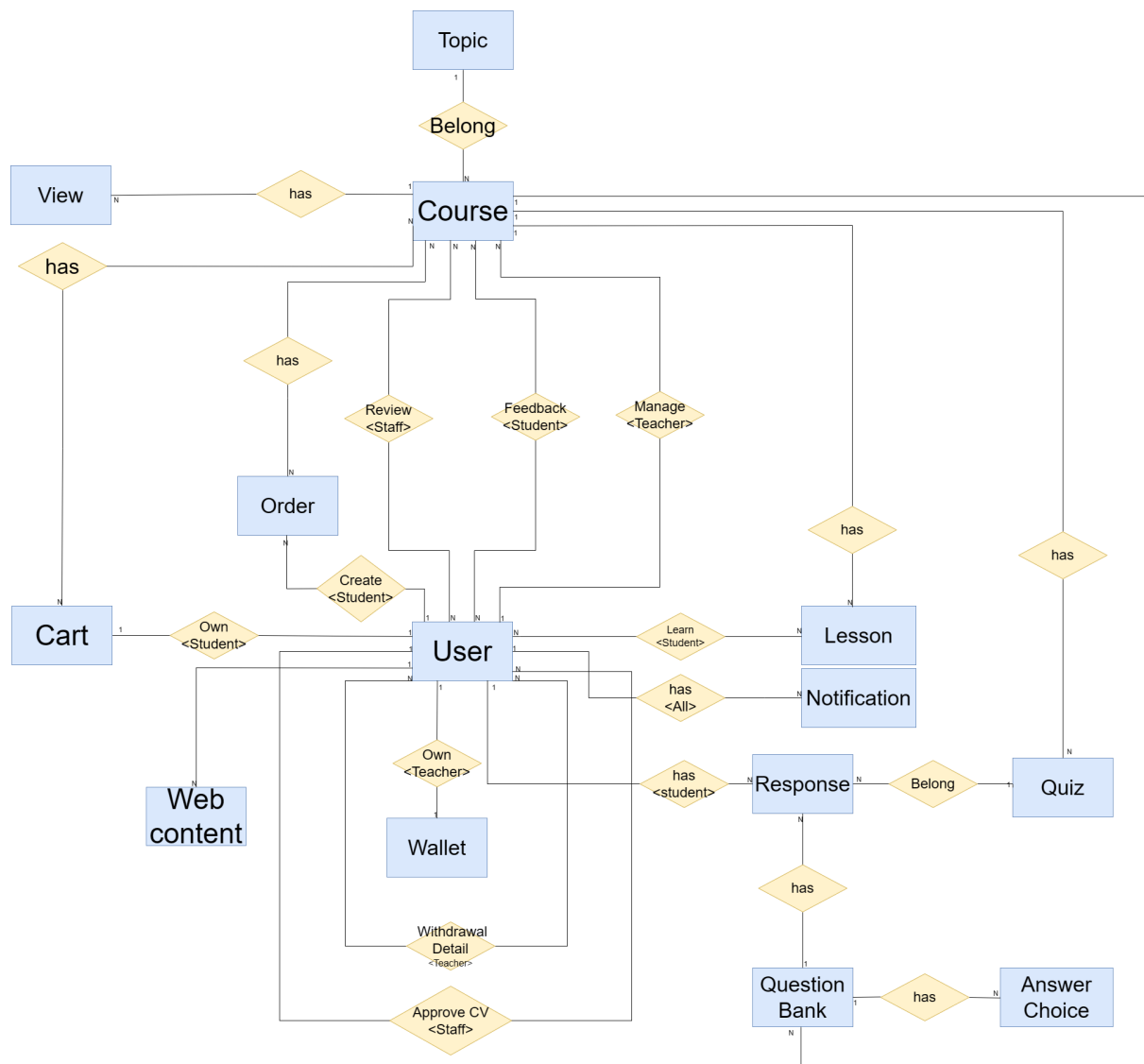
	Update Content			X		X
	Add Content			X		X
	Censorship Teacher's Cv			X		X
	View List Transaction			X		X
	View List Course Request			X		X
	Statistics Courses					X
	Dashboard For Admin					X
	Statistics Teacher					X
	Statistics Student					X
	Manage Account					X
	Dashboard For Teacher	X				
	Create Course	X				
	Revenue Detail	X				
	View Course List	X				
	Update Couse	X				
	View Course Static	X				
	View Feedback	X				
	Delete Course	X				

**d. Non-Screen Functions**

#	Feature	System Function	Description
1	Home	Sign out	Users sign out of the system.



### e. Entity Relationship Diagram



## f. Entities List

Entity	Description
Course	Represents a course.
User	Refers to a user or an individual.
Topic	Denotes a specific topic or subject.
Lesson	Represents a lesson or a specific learning unit.
Wallet	Refer to the teacher's online wallet
Feedback	Represents feedback or user comments.

Notification	Denotes a notification or a message to be sent.
Withdrawal	Refers to a withdrawal of funds or assets.
Web content	Denotes content or information displayed on a website.
Order	Represents an order placed in the system
Cart	Refers to a shopping cart or a collection of selected items.
Question Bank	Represents a quiz question.
Quiz	Denotes a quiz.
Answer Choice	Represents an answer in a question (can be incorrect or correct)
Response	Refers to a response or an answer provided.