

UCS1617 - MINI PROJECT

Online Course Management System

USE CASE DOCUMENT

VERSION 1.1

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Use Case Diagram

The Use Case Diagram proposed for the Online Course Management System, based on the Software Requirements Specification (SRS) Version 1.1 is shown below.

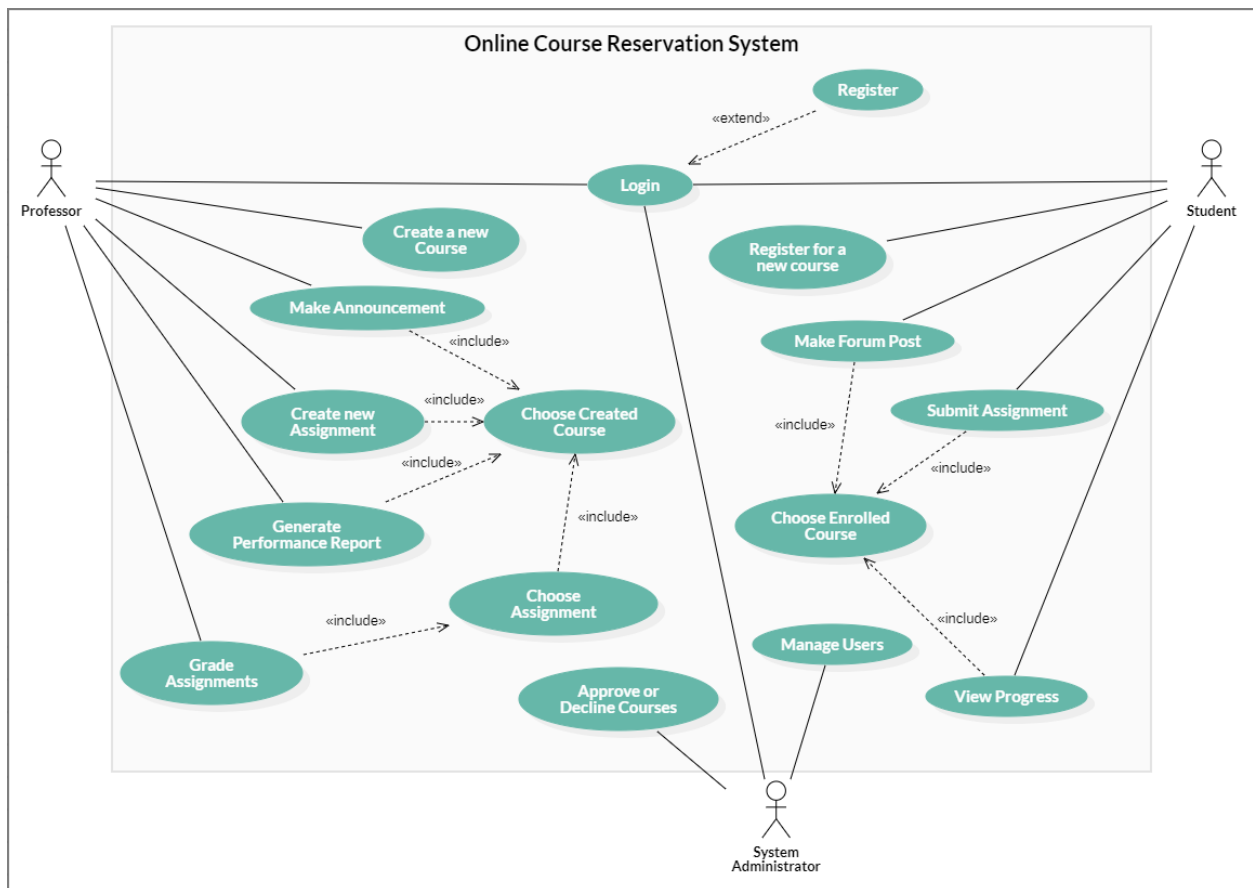


Figure 1.1: Use Case Diagram Version 1.1

Use Case Descriptions

2.1 Login

Overview: This use case describes how a user (Student, Professor or System Admin) can log into the system to use it

Actors: Student, Professor, System Admin

Basic Flow:

1. The user enters their login credentials (Username & Password).
2. The system authenticates the user using the internal database.
3. The user is logged into the system.

Alternate Flows:

1. **The username doesn't exist**
 - (a) The system redirects to the Registration Page.
2. **The username exists, but the password is incorrect**
 - (a) The system displays an error message and resets the Login Page.
 - (b) The user re-initiates the use-case.

Post-Conditions: The user is successfully logged into the system.

2.2 Register

Overview: This use case describes how a user (Student, Professor or System Admin) can register an account in the System.

Actors: Student, Professor, System Admin

Basic Flow:

1. The user enters their details and a chosen password.
2. The system adds the user to the database.
3. The system redirects back to the login page.

Pre-Conditions: The user must not already have an account and should wish to create one in the system.

Post-Conditions: The user is successfully registered into the system, and can now login anytime later.

Extends: Login

2.3 Register for a course

Overview: This use case describes how a Student can register for a course.

Actors: Student

Basic Flow:

1. The system displays all available courses.
2. The student chooses one of the courses.
3. The system displays the details of the chosen course.
4. The students confirms registration and the database is updated.

Alternate Flows:

1. The student chooses not to register and goes back to the course catalog.

Post-Conditions: The student is successfully registered to their chosen course.

2.4 Choose Enrolled Course

Overview: This use case describes how a Student can choose to manage a course they are enrolled in.

Actors: Student

Basic Flow:

1. The system displays all courses the student has enrolled in.
2. The student chooses one of the courses.
3. The system redirects student to the dashboard of the course.

Post-Conditions: The dashboard of the chosen course is displayed to the student.

2.5 Make Forum Post

Overview: This use case describes how a Student can make a post in the Course Public Forum.

Actors: Student

Basic Flow:

1. The student types and sends a message they want to send on the course forum.
2. The system saves the message to the database and displays it on the forum.

Post-Conditions: A forum post is made by the student that can be viewed by other students taking the course as well as the professor that is handling the course.

Includes: Choose Enrolled Course

2.6 Submit Assignment

Overview: This use case describes how a Student can submit an assignment.

Actors: Student

Basic Flow:

1. The system displays all assignments pending for the course.
2. The student chooses one of the assignments.
3. The system displays all details of the assignment.
4. The students enters a Google Drive link to their assignment submission.

Post-Conditions: The student successfully makes a submission to the assignment.

Includes: Choose Enrolled Course

2.7 View Progress

Overview: This use case describes how a Student can view their progress in any chosen course.

Actors: Student

Basic Flow:

1. The system retrieves scores issued by the professor handling the course.
2. The assignment scores of the student are displayed.

Includes: Choose Enrolled Course

2.8 Create Course

Overview: This use case describes how a Professor can create a new course.

Actors: Professor

Basic Flow:

1. The professor enters all details relating to the course.
2. The system creates a new course and adds it to the wait-list for approval by the System Administrator.

2.9 Choose Created Course

Overview: This use case describes how a Professor can choose to manage a course created by them.

Actors: Professor

Basic Flow:

1. The system retrieves all courses created by the professor from the database and displays them.
2. The professor chooses one of the courses.
3. The system redirects to the dashboard of the course.

Post-Conditions: The dashboard of the chosen course is displayed to the professor.

2.10 Make Announcement

Overview: This use case describes how a Professor can make an announcement in the Course Forum.

Actors: Professor

Basic Flow:

1. The professor enters the desired announcement to be made into the forum.
2. The system creates a forum post and updates the database.

Post-Conditions: An announcement is made by the professor on the forum that can be viewed by all students taking the course.

Includes: Choose Created Course

2.11 Create New Assignment

Overview: This use case describes how a Professor can create a new Assignment and post it.

Actors: Professor

Basic Flow:

1. The professor enters the details of the course along with any resource links necessary.
2. The system creates an assignment activity and posts it in the assignments tab of the course dashboard.
3. The system also makes an announcement in the forum regarding the assignment.
4. The assignment will accept submissions from the students taking the course.

Post-Conditions: An assignment is created and posted for the students to work on and submit.

Includes: Choose Created Course

2.12 Generate Performance report

Overview: This use case describes how a Professor can generate a performance report for any course handled by them.

Actors: Professor

Basic Flow:

1. The system retrieves all assignment scores of students enrolled in the course.
2. The system generates a report of their performances and displays it to the professor.

Includes: Choose Created Course

2.13 Choose Assignment

Overview: This use case describes how a Professor can choose to manage an assignment.

Actors: Professor

Basic Flow:

1. The professor chooses an assignment from the assignments tab.
2. The system retrieves all information about the assignment and all submissions made by students and displays them for the professor.

Includes: Choose Created Course

2.14 Grade Assignments

Overview: This use case describes how a Professor can grade grade submissions made by students to an assignment.

Actors: Professor

Basic Flow:

1. The professor chooses an assignment from the assignments tab.
2. The system retrieves all information about the assignment and all submissions made by students and displays them for the professor.
3. The professor provides a score for each of the submissions.
4. The system saves the scores, updates the database and makes a forum post that the respective assignment has been graded along with the list of students whose submissions have been graded.

Includes: Choose Assignment

2.15 Approve/Decline Courses

Overview: This use case describes how the system administrator can either approve or decline a new course created by the professor.

Actors: System Administrator

Basic Flow:

1. The system displays all courses waiting for approval.
2. The system administrator chooses one of the courses.
3. The system displays all details about the course.
4. The system administrator approves the course.
5. The system updates the database and adds the course to active courses.

Alternate Flows:

1. The system administrator declines the course.
2. The system removes the course from the wait-list.

Post-Conditions: The courses is either approved or is declined.

2.16 Manage Users

Overview: This use case describes how the system administrator can manage all users that are currently using the system.

Actors: System Administrator

Basic Flow:

1. The system retrieves the details of all users from the database and displays them.
2. The system administrator can disable or delete any account in the list.
3. The system updates the database and restricts that user to login to the system.

Post-Conditions: Any number of users' accounts may be disabled or deleted.