Project Requirements
Online Course Management System

Actors
1)   Online course management system (OCMS)
2)   Student
3)   Professor
4)   University

Use Case 1: Search for a course

Exposition: A student searches for the course and a list of courses matching the search criteria is returned.

Precondition: A student must be logged in.

PostCondition: Returns list of courses matching the search criteria

Step by step Description

1) [#Student] - The student enters search query.
2) [#OCMS] - The system returns list of courses matching the query submitted by the student.

Use Case 2: Register for a course

Exposition: Student registers for the selected course.

Precondition: A student must be logged in and student shouldn't have taken that course before

PostCondition: The new course is added to the list of "currently enrolled courses" for that student

Step by step Description

1) [#Student] - The student submits a request to enroll for one of the courses selected from the list of courses returned by the system
2) [#OCMS] - Checks if the student has already taken that course before. If not, then he is successfully registered for the selected course and notifies the student.

Use Case 3: Upload lecture for a course

Exposition: Professor uploads a new lecture for his course.

Precondition: The professor must have been assigned to the course he is uploading lecture of.

Post Condition: A new lecture is added to the list of "lectures" for that course.

Step by step Description:

1) [#Professor] - The professor submits a request to upload course material for a subject from the list of courses he is taking
2) [#OCMS] - Grants permission if and only if the professor is assigned for that course
3) [#Professor] - Uploads course material.
4) [#OCMS] - Adds a lecture to the list of lectures for that course.

Use case 4 - Forums

Exposition: Forums are discussion boards to ask and answer queries.

Precondition: The student must have taken the course and the professor must be assigned for the course

PostCondition: Student posts doubts and other students and professors can answer it or ask follow up questions

Step by step Description:

1) [#Student] - Submits a request to post on forums
2) [#OCMS] - Posts a question on forums if the student is enrolled for that subject
3) [#Professor] - Submits a request to post an answer for a question on forums
4) [#OCMS] - Posts an answer if the professor is assigned for that course.
5) Alternative Flow: [#studentAnswersForums]

Use Case 5 - Add a new professor to university

Exposition: A new Professor is added to the university.

Precondition: University must be registered with the OCMS

PostCondition: Adds a new professor to the list of professors for that university

1) [#University]- Submits the details of the professor to be added.
2) [#OCMS] - Adds the new professor to the list of professors for that university and notifies the professor and university

Use Case 6 - Add a new course and assign professor

Exposition: University adds a new course in OCMS and assigns a professor to it`

Precondition: University must be registered with the OCMS and the professor assigned to the course must be enrolled in that university

Postcondition: Adds a new course to the list of courses in the OCMS and assigns atleast one professor for that course

1) [#University] - Submits a request to add a new course in the OCMS
2) [#OCMS] - Grants permission only if the university is registered with it
3) [#University] - Fills in the details of the courses and assigns atleast one professor from the list of professors enrolled under it
4) [#OCMS] - Adds the course to the list of courses and notifies the university.

Use case 7 - View Courses

Exposition: A student can view his current courses

Precondition: Student must be registered and enrolled for atleast one course

Postconditon: All of a student's courses are returned as a list

1) [#Student] - Submits a request to view his courses
2) [#OCMS] - Returns a list of all courses in which the student is enrolled

Alternative flow:

Student Answers Forums [studentAnswersForums]

Description: Students answering/asking follow up questions

Step by step Description:

1) [#Student] - Submits a request to post an answer for a question on forums or asks a follow up question.
2) [#OCMS] - Posts an answer if the student is enrolled for that course.