GROUP 10: MILESTONE 2b
Use Cases
CampusCentral

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UCCS1: Registering for a planned course

Purpose: To allow students to register for courses they have previously added as planned courses in the CampusCentral course management system.

Primary Actor: Student

Stakeholders List:
- Program Counselors
  - Wants to be able to provide guidance and support to students when course registration is available.
- System Administrator:
  - Wants to be able to provide technical support for students if any problems arise during course selection.

Preconditions:
- The student is an authenticated user of CampusCentral.
- The student has added the desired course as a planned course on their schedule

Postconditions:
- The course has been added to the student's schedule for the corresponding term.
- The student's course schedule is updated with the correct course details (section, ID, and time)

Basic Flow (Main Success Scenario):
1. The student logs into CampusCentral.
2. The user navigates the system to the Course Scheduler.
3. User enters the option to register for a planned course.
4. The student enters the desired course to register.
5. The system displays the available sections for the selected course.
6. The student enters the section that fits their schedule.
7. The student verifies and registers for the course.
8. The system updates the student's schedules to reflect their enrollment in the course.

Alternate Flow (Exceptions):

*a. At any time, System fails:

To support recovery, the state of the student's schedule from any step of the scenario
1. The user re-logs onto Campus Central, the schedule remains in the same state as before

4a. The selected course is completely full:
1. The system displays an error message that indicates the course they have selected is full.
2. Control is returned to user.

4b. The selected courses' prerequisites have not been met:
1. The system displays an error message that states that the prerequisites for this course have not been met.
2. The student must complete the course's prerequisites before enrolling in the desired course.
3. Control is returned to user.

6a. The selected course section is full:
1. The system displays an error message that states the course section they've selected is full.
2. The student must select a different section or course.
3. Control is returned to user.

6b. The course exceeds the maximum number of courses they can take
1. The system displays an error message that states that the course cannot be registered as the student has too many courses registered already
2. Control is returned to user

UCCS2: Dropping a registered course

Purpose: To allow students to drop courses they have previously registered in through the CampusCentral course management system.

Primary Actor: Student

Stakeholders List:
- Program Counselors
  - Wants to be able to provide guidance and support to students when a student is debating on dropping a course.
- System Administrator:
  - Wants to be able to provide technical support for students if any problems occur during course selection.
- University Registrar:
  - Wants to be able to update the student's academic record and course availability once a course has been dropped.

Preconditions:
- The student is currently registered for a course.
- The student has identified what course they would like to drop for the semester

Postconditions:
- The student's academic record is updated to reflect the dropped course.
- The course capacity is updated in the university course management system.

Basic Flow (Main Success Scenario):
1. The student logs into CampusCentral.
2. The user navigates the system to the Course Scheduler.
3. The system displays the student's registered courses.
4. The student enters the course they want to drop.
5. The system asks the student to confirm whether they want to drop the course.
6. The system removes the course from the student's registered courses.
7. The system updates the student's record to reflect the dropped course.
8. The system updates the courses available for the student.
9. The system displays a confirmation message regarding the dropped course.

Alternate Flow (Exceptions):

*a. At any time, System fails:
To support recovery, the state of the student's schedule from any step of the scenario
1. The user re-logs onto Campus Central, the schedule remains in the same state as before

3a. The student is not currently registered in any courses:
1. The system will not have the option to drop courses without a registered course.
2. Control is returned to user.

6a. The system encounters an error while dropping the course:
1. The system displays an error message indicating that the course could not be dropped due to an error.
2. The system prompts the student to try again later or contact technical support for assistance.
3. Control is returned to user.

UCCS3: Adding a planned course to the student's schedule

Purpose: To assist students to plan their courses to meet their academic requirements by distributing courses across the remaining semesters in their program.

Primary Actor: Student

Stakeholders List:

- Academic Advisors:
  - Providing assistance and guidance to help the student's schedule planning with choosing appropriate courses to meet program requirements
- System Administrator:
  - Wants to be able to provide technical support for students if any problems arise during course selection.

Preconditions:

- The student is an authenticated user of CampusCentral

Postconditions:

- The course has been added to the student's planned courses for the selected semester.
- The student's course schedule is updated with the new planned course.

Basic Flow (Main Success Scenario):

1. The user logs into CampusCentral as an authenticated student.
2. The user navigates the system to the Course Scheduler.
3. The user searches for their desired course in the course catalog.
4. The user adds their desired course to their plan entering the course
5. The course is added to the student's plan for that semester.

Alternate Flow (Exceptions):

*a. At any time, System fails:
1. To support recovery, the state of the student's schedule from any step of the scenario.
2. The user logs onto Campus Central, the schedule remains in the same state as before.
3. Control is returned to user.

3a. User enters incorrect course
1. The system indicates that the user entered an incorrect course
2. System prompts user for another course
3. Control is returned to user

UCCS4: Removing a planned course from the student's schedule

Purpose: To enable students to fix mistakes made on their academic plan or reschedule their previous plans for any reason.

Primary Actor: Student

Stakeholders List:

- Program Counselor:
    - To provide guidance and assistance for students that have conflicts within their academic schedule
- System Administrator:
    - Wants to be able to provide technical support for students if any problems arise during course selection.

Preconditions:

- The student is an authenticated user of CampusCentral

Postconditions:

- The course has been removed from the student's planned courses for the selected semester.
- The student's course schedule is updated to reflect the removal of the course.

Basic Flow (Main Success Scenario):

1. The user logs into CampusCentral as an authenticated student.
2. The user navigates the system to the Course Scheduler.
3. The user enters the course they want to remove from planned courses
4. The course is removed from the student's plan.

Alternate Flow (Exceptions):

*a. At any time, System fails:
1. To support recovery, the state of the student's schedule from any step of the scenario
2. The user logs onto Campus Central, the schedule remains in the same state as before

4a. The selected course is a prerequisite for another course on the student's plan.
1. The user is notified with an error message that states the course is a prerequisite for other courses on their plan.
2. The process will be canceled.
3. Control is returned to user.

UCCS5: Viewing Future Courses

Primary Actor: Student

Purpose: To allow students to preview future courses which they are required to take and be aware of any necessary prerequisites that they might need to take prior to taking a said course to allow them to plan semesters accordingly.

Stakeholders List:

- **Program Counselor**
  - To be able to advise students in their specific program about the courses which are mandatory to complete the degree.
- **Academic Advisor**
  - To be able to advise students on the best possible courses to take in specific semesters and preview which need to be taken for specific programs.
- **System Administrator:**
  - Wants to be able to provide technical support for students if any problems arise during course selection.

Preconditions:

- The student is enrolled in a program and is a student at the university.
- The student is an authenticated user of Campus Central.

Postconditions:

- Students are able to view courses they are taking in the future, for the upcoming semester

Basic Flow (Main Success Scenario):
1. The user logs into CampusCentral as an authenticated student.
2. The user navigates the system to the Course Scheduler.
3. The user enters the option to view future future courses
4. The system shows the user the courses they are registered in for the next semester

Alternate Flow (Exceptions):

*a. At any time, System fails:
1. To support recovery, the state of the student's schedule from any step of the scenario.
2. The user logs onto Campus Central, the schedule remains in the same state as before

4a. The student has no future courses
1. System messages indicating the user has no future courses
2. Control is returned to user.

UCCS6: Viewing Past Courses

Purpose: To allow students to be able to see all courses they have completed in the past

Primary Actor: Student

Stakeholders List:

- **Program Counselor**
  - To be able to guide students in their specific program about any mandatory course which may have been missed to complete the degree.
- **System Administrator:**
  - Wants to be able to provide technical support for students if any problems arise during course selection.

Preconditions:

- The student has fully completed at least 1 course whilst being enrolled.
- The student is an authenticated user of Campus Central.

Postconditions:

- Students are able to view their progress thus far with all completed courses and their grades received for said courses.

Basic Flow (Main Success Scenario):

1. The user logs into CampusCentral as an authenticated student.
2. The user navigates the system to the Course Scheduler.
3. The user enters the option to view past courses
4. The system shows courses completed, marks and when they were completed.

Alternate Flow (Exceptions):

*a. At any time, System fails:
1. To support recovery, the state of the student's schedule from any step of the scenario.
2. The user logs onto Campus Central, the schedule remains in the same state as before.

4a. The user has not completed any courses whilst being fully registered as a student
1. A brief message appears stating that no courses have been completed.
2. The student is allowed to see in order every course which is required to be taken and relevant information pertaining to each course to finish the specified program.
3. Control is returned to user

UCCS7: Viewing Current Courses

Purpose: To allow students to be able to see all courses they are currently taking

Primary Actor: Student

Stakeholders List:

- **Program Counselor**
  - To be able to guide students in their specific program about any mandatory course which may have been missed to complete the degree.
- **System Administrator:**
  - Wants to be able to provide technical support for students if any problems arise during course selection.

Preconditions:

- The student has fully completed at least 1 course whilst being enrolled.
- The student is an authenticated user of Campus Central.

Postconditions:

- Students are able to view their progress thus far with all completed courses and their grades received for said courses.

Basic Flow (Main Success Scenario):

1. The user logs into CampusCentral as an authenticated student.
2. The user navigates the system to the Course Scheduler.
3. The user enters the option to view current courses
4. The system shows courses the student is currently taking during the semester

Alternate Flow (Exceptions):

*a. At any time, System fails:
1. To support recovery, the state of the student's schedule from any step of the scenario.
2. The user logs onto Campus Central, the schedule remains in the same state as before.

4a. The user has not completed any courses whilst being fully registered as a student
1. System indicates that the user is not taking any courses for the semester
2. Control is returned to user

UCCS8: View Class Lists

Purpose: To allow Professors to view a class list for a particular course.

Primary Actor: Professor

Stakeholders List:

- System Administrator:
    - Wants to be able to provide technical support for students if any problems arise during course selection.
- Department Chair / Program Counselor **:**
    - Wants to ensure that the class list for a course includes all necessary information for each student.
- Students**:**
    - Wants to ensure that their personal information is secure and protected.

Preconditions:

The Professor is an authenticated user of the CampusCentral system.
The Professor is assigned to teach the course for which they want to download the class list.

Postconditions:

The Professor has successfully downloaded the class list for the corresponding course.
The downloaded class list includes all the necessary information for each student.

Basic Flow (Main Success Scenario):

1. The Professor logs into CampusCentral.
2. The Professor navigates the system to the Course Scheduler.
3. The Professor enters the option to view class list.
4. The Professor enters the course they want to view the class list for.
5. The system displays a list of courses the Professor is assigned to teach.
6. The Professor enters the desired course.
7. The system outputs the students registered in a course, including student's name and student id

Alternate Flow (Exceptions):

3a. The Professor is not assigned to teach the selected course:
1. The system displays an error message indicating that the Professor is not assigned to teach the selected course.
2. The Professor selects a different course or contacts the department chair for assistance.
3. Control is returned to user.

4b. There are no students registered in the course:
1. The system displays an error message indicating there are no students in the class list.
2. Control is returned to user.

6a. The professor enters an incorrect course ID/code
1. The system prompts an error message and asks the user to re-enter the course
2. Control is returned to user.

UCCS9: View courses they are teaching

Primary Actor: Professor

Purpose: To allow professors to be able to view courses they are teaching in the past, and future, and to provide accessibility to summaries and class lists for courses at any given time.

Stakeholders List:

- System Administrator
  - Wants to provide technical support to professors if the courses displayed don't match their scheduled plan
- Program Counselor
  - Wants to know the courses that a professor is currently teaching, taught in the past, and going to teach in the upcoming semesters

Preconditions:

- The professor is an authenticated user of CampusCentral.

Postconditions:

- The course has been added to the professor's schedule for the corresponding term.
- The professor's course schedule is updated.

Basic Flow (Main Success Scenario)

1. The professor logs into CampusCentral.
2. The Professor navigates the system to the Course Scheduler.
3. The professor selects if they want to view future (next semester courses) or past courses that they will be teaching or have taught.

Alternate Flow (Exceptions)

*a. At any time, System fails:
1. To support recovery, the state of the professor's schedule from any step of the scenario is saved
2. The user logs onto Campus Central, the schedule remains in the same state as before

3a. If the professor does not have any scheduled courses:
1. The system will display a message that no course has been scheduled for the semester.
2. Control is returned to user.

UCCS10: Review TA Applications

Primary Actor: Professor

Purpose: To allow professors to be able to view TA Applications for the courses they are teaching next semester

Stakeholders List:

- System Administrator
  - Wants to provide technical support to professors if the courses displayed don't match their scheduled plan
- Program Counselor
  - Wants to know the who the teaching assistants are for the courses the professor is teaching in the upcoming semester

Preconditions:

- The professor is an authenticated user of CampusCentral.
- The professor's schedule has been updated for the upcoming courses for the courses they will be teaching

Postconditions:

- The Teaching assistants for the courses have been updated

Basic Flow (Main Success Scenario)

1. The Professor logs into Campus Central
2. The Professor navigates the system to the Course Scheduler.
3. The Professor enters the option to view TA applications
4. The Professor enters a course to review TA applications for
5. The Professor selects which students they would like to approve for a teaching assistant position
6. Control is returned back to the user

Alternate Flow (Exceptions)

*a. At any time, System fails:
   1. To support recovery, the state of the professor's schedule from any step of the scenario is saved
   2. The user logs onto Campus Central, the schedule remains in the same state as before

4a. There are no Teaching Assistant Applications
   1. The system prints out a message indicating that there are no applications for the selected course
   2. Control is returned to the user

4b. The professor enters an incorrect course id/code
   1. The system prints out a message indicating that the course entered is invalid
   2. System prompts to ask the professor to re-enter the course
   3. Control is returned to the user