

Description

This use case explains the process of an advisor which approves the registrations to courses for each student through the system and outlines how this process will operate.

Stakeholders and Interests

- **Student:** The student wants to register for selected courses, check the suitability and prerequisites of the courses, view their course schedule, and access an updated transcript.
- **Course Registration System:** The system aims to securely verify student identities and accurately process course registrations and updates.
- **Academic Advisors:** Advisors play a role in approving or guiding students in their course selections. They want to assist students in making appropriate course choices and review and approve course registration requests.

Actors

- **Primary Actor:** Advisor
- **Supporting Actors:** Course Registration System, Database (JSON files)

Preconditions

- The advisor must be registered and an active advisor within the system.
- The advisor must be able to log in to the system with a username and password.
- The course registration period must be open for approval.
- The advisor must check the necessary conditions for registration for each student's registration request.

Postconditions

- The advisor's course registration approvals are successfully completed and transcript has updated.

Basic Flow

1. System Login:

1.1. The advisor logs into the system by using their username and password.

1.2. The system authenticates the advisor's identity and redirects to the homepage if the login is successful.

2. Viewing Student List and Student Selection:

2.1. The advisor selects the "Student List" module selects student(s) from student list.

2.2. The system displays a list of students which advisor responsible for current term.

3. Checking and Confirmation:

3.1. The system checks for any time conflicts between selected courses and prerequisite information against the student's academic history for selected student.

3.2. If no conflicts or prerequisite issues are detected, the system is going to prompt a approve button to advisor's screen to confirm student's each course selection.

4. Registration Approval Process:

4.1. The advisor approves or deny each student's course registration requests.

4.2. The system processes the registration and updates the records in the JSON database.

5. Registration Outcome and Transcript Update:

5.1. The system sends a successful approval message to the advisor.

5.2. The advisor updates student's transcript.

Alternative Flows

1.1.a) The advisor uses unwanted special characters in the username.

1.1.a.1) The system detects unwanted special characters in the username and informs the advisor with an error message.

1.1.a.2) The advisor realizes that a valid username is required and retries with a corrected username.

1.1.a.3) The system accepts the corrected username and proceeds to the password request step.

1.2.a) If the system detects an incorrect username or password, it displays an error message and redirects to the login screen.

1.2.a.1) The system identifies an incorrect username or password combination and informs the student with an error message.

1.2.a.2) The advisor understands that they need to enter the correct username and password and retries with corrected information.

1.2.a.3) The system accepts the correct username and password and proceeds to the course list viewing step.

2.2.a) If the courses for the term have not opened yet or the student list is empty, it displays an error message :

2.1.a.1) The system detects that the term has not started or student list is empty and informs the advisor with an error message.

2.1.a.2) The advisor understands that they should check the student list again later on.

3.2.a) If one or more of the selected courses do not match prerequisites or there is a time conflict, it displays an error message.

3.1.a.1) The system identifies that one or more registration request do not match with the prerequisites and informs the advisor with an error message.

3.2.a.2) The advisor understands that students request got denied by system and returns to student list.

4.2.a) If error occurs during approval process, the system displays an error message.

4.2.a.1) The system detects an error during approval process and informs the advisor with an error message.

4.2.a.2) The advisor understands the what causes an error message and denies the requests.

4.2.a.3) The system accepts advisor's feedback and updates the transcript.

Special Requirements

- The system must perform securely and swiftly during user login and course registration processes.

Frequency

- This process will occur at the beginning of each academic term and during designated registration periods.