Definition

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

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 into 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, such as prerequisites and credit limits for each students choice.

Basic Flow

1. **System Login:**
   - The advisor logs into the system using a username and password.
   - The system authenticates the advisor's identity and, upon successful login, redirects to the homepage.

2. **Viewing Student List:**
   - The advisor selects the "Student List" module.
   - The system displays a list of students which advisor responsible for current term.

3. **Student Selection:**
   - The advisor selects student(s) from student list.
   - The system shows the selected student's each course selection.

4. **Conflict Checking and Confirmation:**
   - The system checks for any time conflicts between selected courses and prerequisite information against the student's academic history for selected student.
   - 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.

5. **Registration Approval Process:**
   - The advisor approves student(s) selection.
   - The system processes the registration and updates the records in the JSON database.

6. **Registration Outcome and Transcript Update:**
   - The system sends a successful approval message to the advisor.
   - The advisor updates student's transcript.

Alternative Flows

- **Failed Login:**

    - The system alerts the advisor to incorrect login information and prompts for re-entry.

- **In Case of Conflicts:**

    - If there is a time conflict between selected courses or prerequisite issues of any course the system prompts an error to advisor to deny.

Postconditions

- The advisor's course registration approvals is successfully completed, list of registered courses, and updated 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.