



Use Case UC1: View Forums

Primary actors: Student, faculty, admin, and registrar

Stakeholders and Interests:

1. Student: Wants to view questions posted in forums
2. Faculty: Wants to view questions posted in forums
3. Admin: Wants to view questions posted in forums
4. Registrar: Wants to view questions posted in forums

Preconditions: Questions must be posted in forum to view; user registered in system

Post conditions: Can view questions in the forum.

Summary: Students, faculty, admin, and registrars can view questions that are posted in the forums

Basic Flow:

1. User logs into system to access
2. User selects question to view
3. System directs the user to the corresponding forum page

Alternate Flow:

1. User unable to sign in
 - a. Ensure log in credentials are correct
 - b. If password forgotten, request to reset password
3. Page not found (404)
 - a. Alert user and redirect to homepage
 - b. Notify admin about the broken link

Use Case UC2: Post Questions

Primary actors: Students, faculty, and admin

Stakeholders and Interests:

1. Students: Want to view and ask questions posted in the forums
2. Faculty: Want to view and ask questions posted in the forums
3. Admin: Want to view and ask questions posted in the forums for testing functionality

Preconditions: Must have proper permissions to ask questions.

Post conditions: Question forum started; other users can comment/answer the question

Summary: Students, faculty, and admin will be able to ask questions in the forums

Basic Flow:

1. User logs in
2. Select post new question
3. Submit question

Alternate Flow:

2. User does not have permission to post question
 - a. System notifies user and redirects to homepage
3. Error processing the request
 - a. System notifies user and refreshes the page to try again

Use Case UC3: Answer Questions

Primary actors: Students, faculty, admin

Stakeholders and Interests:

1. Students: Want to view and answer questions posted in the forums
2. Faculty: Want to view and answer questions posted in the forums
3. Admin: Want to view and answer questions posted in the forums

Preconditions: Questions must be posted in the forum to answer, must have proper permissions to answer questions.

Post conditions: User answers the question.

Summary: Students, faculty, and admin will be able to answer questions in the forums to be voted upon.

Basic Flow:

1. User logs in
2. Selects question to answer
3. Posts a new answer to the question

Alternate Flow:

- 3a. User does not have the proper permissions to answer the question
 - a. System notifies users and redirects to homepage
- 3b. Error processing answer
 - a. System notifies user and refreshes the page to try again

Use Case UC4: Vote on Answer

Primary actors: Students, faculty, and admin

Stakeholders and Interests:

1. Students: Can up vote or down vote questions and answers
2. Faculty: Can up vote or down vote questions and answers
3. Admin: Can up vote or down vote questions and answers to test system functionality

Preconditions: Questions must be posted in forum to vote on, must have proper permissions to vote on questions and answers.

Post conditions: Answer is voted upon once but can be changed

Summary: Students, faculty, and admin can vote on answers.

Basic Flow:

1. User logs in
2. Selects question to view
3. Upvote/Downvote specific answers

Alternate Flow:

3. Tries to vote multiple times on same answer
 - a. Alerts user that answer can be voted upon once, but can be changed from upvote to downvote or vice versa

Use Case UC5: Delete Questions and Answers

Primary actor: Admin

Stakeholders and Interests:

1. Admin: Can delete questions and answers if they are deemed inappropriate

Preconditions: Must be admin to delete questions and answers

Post conditions: Admin can delete questions and answers they deem inappropriate.

Summary: Admin will determine if questions and answers are appropriate to be posted to the forum.

Basic Flow:

1. User logs in
2. Selects inappropriate question/answer to edit/delete
3. Edits/deletes question/answer

Alternate Flow:

1. Not admin user
 - a. System redirects and notifies user that they do not have the proper permissions to edit/delete posts.
3. Can't process request
 - a. Notifies user and refreshes page to try again

Use Case UC6: Create and Delete Users

Primary actors: Admin and registrar

Stakeholders and Interests:

1. Admin: Can create and remove users
2. Registrar: Can create and remove users

Preconditions: Must be Admin or registrar to create and remove users; new user must not exist in system already

Post conditions: Can create and remove users

Summary: Admin and registrar can create and remove users

Basic Flow:

1. User logs in

2. Select to create a new user
3. Attempt to create new user if does not already exist in system
4. New user is created

Alternate Flow:

1. User does not have permissions to create new users
 - a. System redirects to homepage and alerts user they do not have proper permissions
3. User already in system
 - a. System notifies user that the user already exists in the system and cancels request
4. Cannot process request
 - a. System notifies user and refreshes page to try again

Use Case UC7: Edit Schedule

Primary actors: Admin and registrar

Stakeholders and Interests:

1. Admin: Can edit the students/faculty schedule
2. Registrar: Can edit the students/faculty schedule

Preconditions: Must be admin or registrar to edit schedules.

Post conditions: Semester schedules updated

Summary: Admin and registrar can edit the schedules of students/faculty for the current semester

Basic Flow:

1. User logs in
2. Navigates to the edit schedule page
3. Submit form to edit the schedule

Alternate Flow:

1. User does not have permissions to edit schedules
 - a. System notifies user and redirects to homepage
3. Cannot process form
 - a. System notifies user and refreshes page to try again

Use Case UC8: Upload Files

Primary actors: Student and Faculty

Stakeholders and Interests:

1. Students: can upload educational materials (diagrams/tutorials) to profile
2. Faculty: can upload educational materials (diagrams/tutorials) to profile

Preconditions: Must be student or faculty to have an individual profile in order to upload files to said profile.

Post conditions: Files uploaded to profile

Summary: Students and faculty can upload pertinent educational materials to their profile for public viewing

Basic Flow:

1. User logs in
2. Navigates to individual profile
3. Select to upload a file
4. Select file to upload
5. File uploaded and added to profile

Alternate Flow:

2. User does not have proper permissions to have a profile
 - a. System notifies user they cannot have a profile
- 3a. File not acceptable format
 - a. Request cancelled and user notified
- 3b. File size too large
 - a. User notified and prompted to select a different file