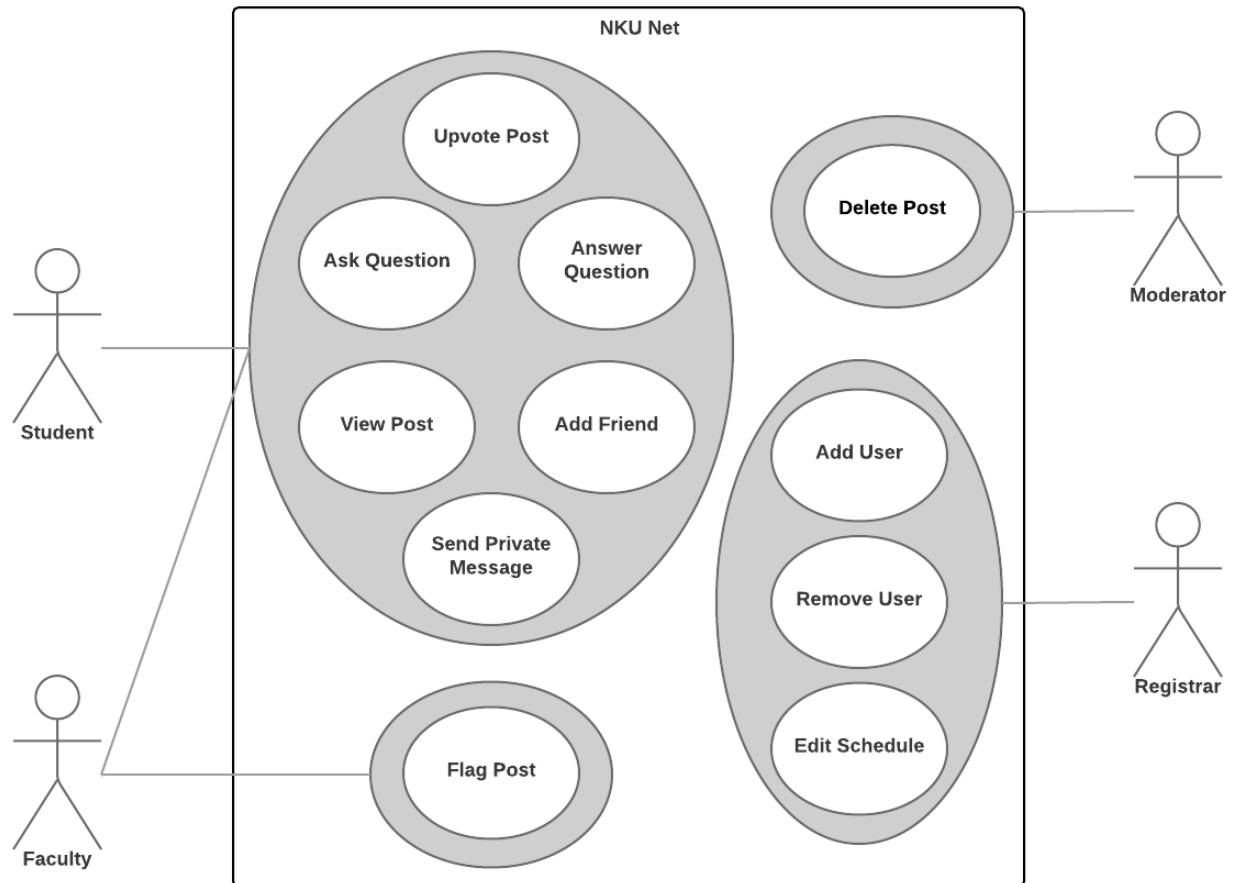


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Use Case Context Diagram:



Use Case UC1: Ask Question

Scope: Forum posting System

Level: User goal

Primary Actor: Student and Faculty

Stakes/Interests:

- Faculty – Wants to make topics that are relevant to the course on the forum.
- Student – Wants to discuss topics with others in the class on the forum.

Preconditions:

- Faculty or Student is logged in.
- Each class forum is separated from one another.

Success Guarantees: Post has title and content and ready to be posted on the forum.

Main Success Scenario:

1. Student or Faculty give the topic a title.
2. Student or Faculty create the body with the topic information.
3. Student or Faculty submit the topic.

Extensions:

- 3a. Topic is missing title, body, or both.
 1. Topic does not get posted.
 2. Goes back to the create topic page and system notifies the user.

Special Requirements: n/a

Tech & Data: Image compatibility, and accept special characters (e.g. other languages/symbols).

Frequency Of Occurrence: Very frequent, as many users should be participating.

Misc: User must be able to comment on posts.

Use Case UC2: Flag Post

Scope: Class Registration System

Level: User goal

Primary Actor: Faculty

Stakes/Interests:

- Faculty – wants to keep the discussion in the forum on-topic, clean, and friendly.
- Student – wants to have a peaceful discussion/debate with his/her classmates.

Preconditions:

- A Student has posted a comment that is off-topic and/or vulgar.
- Faculty is logged in.

Success Guarantees: The post made by the Student will be placed in a quarantine.

Main Success Scenario:

1. Faculty encounters a post that is off-topic and/or vulgar.
2. Faculty indicates that the post should be removed by flagging it.
3. After flagging it, Faculty writes the reason as to why the post should be removed.
4. The post is then temporarily removed and placed into a quarantined state.

Extensions:

3a: Reason is empty

1. The post is not flagged.
2. System notifies the user to enter the reason why the post should be removed.

Special Requirements: n/a

Tech & Data: Flagged posts are to be stored in a location that a moderator is able to access.

Frequency Of Occurrence: Low frequency.

Misc: n/a

Use Case UC3: Delete Post

Scope: Forum posting System

Level: User goal

Primary Actor: Moderator

Stakes/Interests:

- Moderator – Wants to make sure that topics are kept on the subject matter, and nothing explicit is being posted.

Preconditions:

- Moderator is logged in and has access to all posts.
- Designated post has been flagged by a user.

Success Guarantees: Moderator deems post unfit for topic and removes from the forum.

Main Success Scenario:

1. Moderator thoroughly reviews post.
2. Moderator decides to either keep or remove the post.
3. Post gets removed by moderator.
4. Notifies all faculty within the class, with moderator's reason.

Extensions:

- 3a. Post is not removed by moderator.
 1. Post gets un-flagged.
 2. Notifies all faculty within the class that a flagged post has been un-flagged.

Special Requirements: n/a

Tech & Data: n/a

Frequency Of Occurrence: Low frequency, most users aren't purposely being malicious.

Misc: n/a

Use Case UC4: View Post

Scope: Forum posting System

Level: User goal

Primary Actor: Student and Faculty

Stakes/Interests:

- Faculty – Wants to view a post.
- Student – Wants to view a post.

Preconditions:

- Faculty or student is logged in.

Success Guarantees: User is able to view the post and the associated answers (if any)

Main Success Scenario:

1. User (Student/Faculty) sees a post that interests him/her.
2. User indicates that he/she would like to view the post.
3. The post is presented to the User.

Extensions:

- 1a. User cannot find an interesting post
 1. User does not select a post to view
- 3a. The post is unable to be presented to the User.
 1. The user is shown an appropriate message.

Special Requirements: n/a

Tech & Data: Question content (title, body, author, etc...) and content for each Answer (if any).

Frequency Of Occurrence: Very frequent.

Misc: n/a

Use Case UC5: Answer Question

Scope: Forum posting System

Level: User goal

Primary Actor: Student and Faculty

Stakes/Interests:

- Faculty – Wants to answer questions that are relevant to the course on the forum.
- Student – Wants to discuss questions and answers with others in the class on the forum.

Preconditions:

- Faculty or Student is logged in.
- Each class forum is separated from one another.

Success Guarantees: Question has been posted, not flagged and able to be answered.

Main Success Scenario:

1. Student or Faculty logs in.
2. Student or Faculty finds a question that they wish to give a response to.
3. Student or Faculty clicks on the question.
4. Student or Faculty replies to the question with an answer in the body area.
5. Student or Faculty submits answer, which is then posted to the question at hand.

Extensions:

- 1a. Student or Faculty can't log in.
 1. Make sure the forums aren't down.
 2. Make sure email and password are correct.
 3. Contact administrator if unable to resolve.
- 3a. There are no questions.
 1. Make sure that the forums for the user are correct.
 2. Make sure that a question has been posted.
 3. Contact administrator if unable to resolve.
- 4a. Answer is missing body.
 1. Answer will not be posted.
 2. Goes back to the create answer page and system notifies the user.

Special Requirements: n/a

Tech & Data: Image compatibility, and accept special characters (e.g. other languages/symbols).

Frequency Of Occurrence: Very frequent, as many users should be participating.

Misc: User must be able to comment on posts.

Use Case UC6: Upvote / Downvote Post

Scope: Forum posting System

Level: User goal

Primary Actor: Student and Faculty

Stakes/Interests:

- Faculty / Student – Wants to make post that are useful or not useful visible to all users.

Preconditions:

- Faculty or Student is logged in.
- Each class forum is separated from one another.

Success Guarantees: User is able to upvote or downvote a post on the forum.

Main Success Scenario:

1. Student or Faculty finds a post on the forum.
2. Student or Faculty decides if the post is very useful / not useful
3. Student or Faculty clicks the upvote or downvote button on the post.
4. The post is marked accordingly.

Extensions:

- 4a. The post is unable to be marked
 1. Post does not get marked.
 2. Post could be locked, edited, flagged or deleted.

Special Requirements: n/a

Tech & Data: Image compatibility, and accept special characters (e.g. other languages/symbols).

Frequency Of Occurrence: Very frequent, as many users should be participating.

Misc: User must be able to comment on posts.

Use Case UC7: Add User

Scope: Forum posting System

Level: User goal

Primary Actor: Registrar

Stakes/Interests:

- Registrar – Wants to add a user to the forum

Preconditions:

- Registrar is logged in
- Registrar has class schedule and user information.

Success Guarantees: Registrar is able to add the user to the forum system.

Main Success Scenario:

1. Registrar has user information and wants to add them to forum system.
2. Registrar enters information into the system.
3. Registrar clicks the add user button.
4. User has been added into the forum.

Extensions:

- 3a. The user is unable to be added.
1. User is not added.
 2. Registrar may need to see if something is incorrect or wrong.
 3. If unable to resolve, will need to find out what is causing the issue.

Special Requirements: n/a

Tech & Data: Image compatibility, and accept special characters (e.g. other languages/symbols).

Frequency Of Occurrence: Very frequent, as all users should be entered into the forum system.

Misc: User must be able to make questions, answer questions and see questions and answers.

Use Case UC8: Remove User

Scope: Forum posting System

Level: User goal

Primary Actor: Registrar

Stakes/Interests:

- Registrar – Wants to remove a user to the forum

Preconditions:

- Registrar is logged in
- Registrar has class schedule and user information.

Success Guarantees: Registrar is able to remove the user to the forum system.

Main Success Scenario:

1. Registrar has user information and wants to remove them from the forum system.
2. Registrar finds the user in the forum system.
3. Registrar clicks the remove user button.
4. User has been removed from the forum.

Extensions:

- 3a. The user is unable to be removed.
 1. User is not removed.
 2. Registrar will need to inquiry why the action failed.
 3. If unable to resolve, will need to find out what is causing the issue to get the user removed.

Special Requirements: n/a

Tech & Data: Image compatibility, and accept special characters (e.g. other languages/symbols).

Frequency Of Occurrence: Semi frequent, as all users should be removed from the system if they are no longer an NKU student/faculty member.

Misc: n/a

Use Case UC9: Send Message

Scope: Forum posting System

Level: User goal

Primary Actor: Student (but could be faculty)

Stakes/Interests:

- Student – wants to send a private message to his/her friend

Preconditions:

- Student is logged in
- Student has added another Student as a friend

Success Guarantees: Student is able to successfully send his/her friend a message.

Main Success Scenario:

1. Student navigates to his/her friend list.
2. Student selects a user from the list to which he/she wished to send a private message.
3. Student indicates that he/she would like to send a message to the specified user.
4. Student enters some content for the message and submits it.
5. The message is stored on the server for the recipient to view when he/she logs in.

Extensions:

- 4a. The Student decides to not send the message.
 1. The Student returns to his/her friend list.
 2. The message is not sent/stored.

Special Requirements: n/a

Tech & Data: The messages will be stored on the server.

Frequency Of Occurrence: Fairly frequent if the Forum is as active as we hope.

Misc: n/a

Use Case UC10: View Message

Scope: Forum posting System

Level: User goal

Primary Actor: Student (but could be faculty)

Stakes/Interests:

- Student – wants to send a view his/her private messages

Preconditions:

- Student is logged in
- Student has added another Student as a friend

Success Guarantees: Student is able to successfully view his/her private messages.

Main Success Scenario:

1. Student navigates to his/her inbox
2. Student views the messages that he/she has received
3. Student replies to a message – see UC9: Send Message (step: 4)
4. Student deletes the message
5. The message is deleted from the server

Extensions: n/a

Special Requirements: n/a

Tech & Data: The messages will be stored on the server.

Frequency Of Occurrence: Fairly frequent if the Forum is as active as we hope.

Misc: n/a

Use Case UC11: Edit Schedule

Scope: Forum posting System

Level: User goal

Primary Actor: Registrar

Stakes/Interests:

- Registrar – Wants to edit the courses assigned to a user.

Preconditions:

- Registrar is logged in
- Registrar has class schedule and user information.

Success Guarantees: Registrar is able edit the courses assigned to a user

Main Success Scenario:

1. Registrar has a list of classes that a user wants
2. Registrar selects the desired user
3. Registrar indicates the courses that should be added to the user's schedule
4. The selected courses are added to the user's schedule

Extensions: n/a

Special Requirements: n/a

Tech & Data: n/a

Frequency Of Occurrence: Semi-frequent, but primarily just at the beginning of a semester.

Misc: n/a

Use Case UC12: Add/Remove Friend

Scope: Friends List in Forum

Level: User goal

Primary Actor: Student (but could be any user)

Stakes/Interests:

- Student – wants to have easy access to friends.

Preconditions:

- Student is logged in

Success Guarantees: Student can add another Student to his/her friend list.

Main Success Scenario:

1. Student finds another user
2. Student indicates that he/she would like to add that user as a friend
3. Student's friend list is updated
4. Student decides that he/she no longer wishes to be friends with a user
5. Student indicates that he/she would like to remove that user from his/her friend list
6. Student's friend list is updated

Extensions: n/a

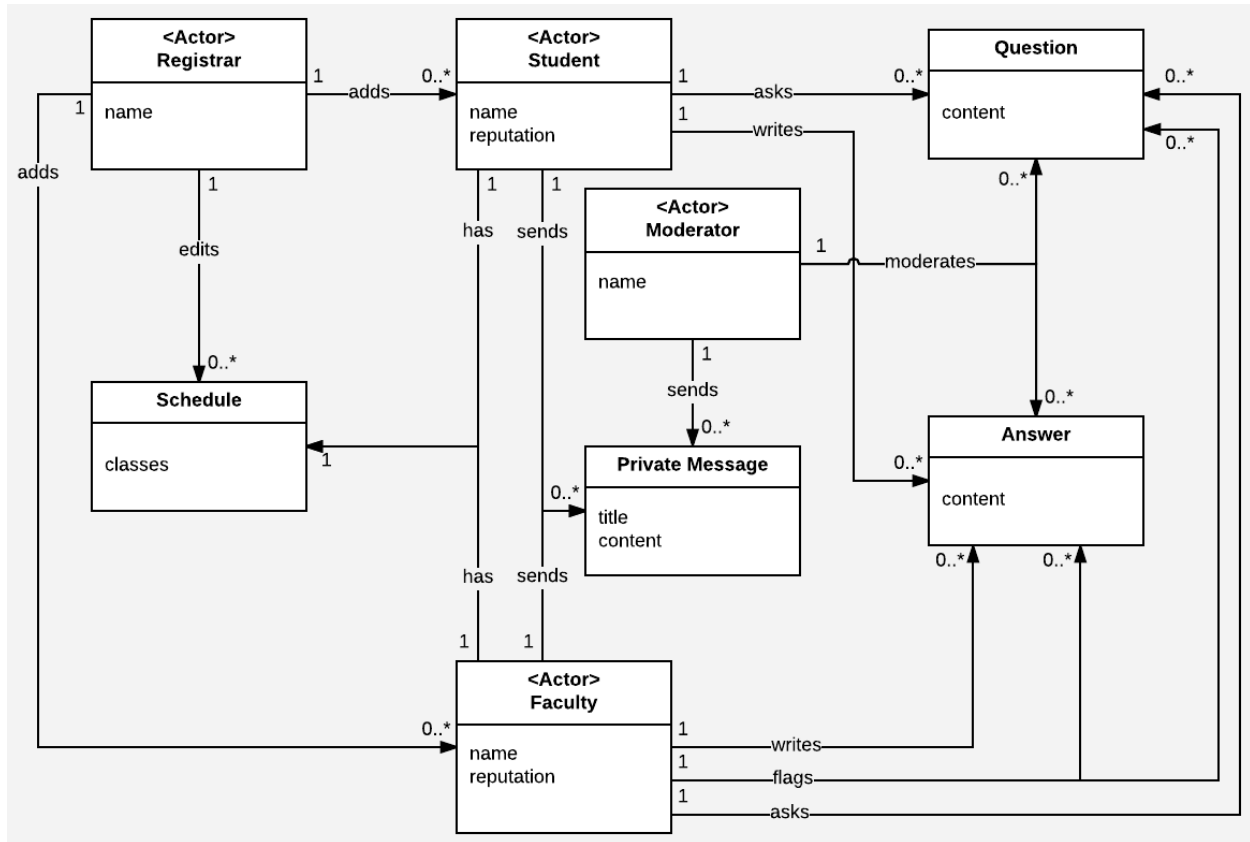
Special Requirements: n/a

Tech & Data: n/a

Frequency Of Occurrence: Semi frequent, as users may want friends to chat with. But is not mandatory.

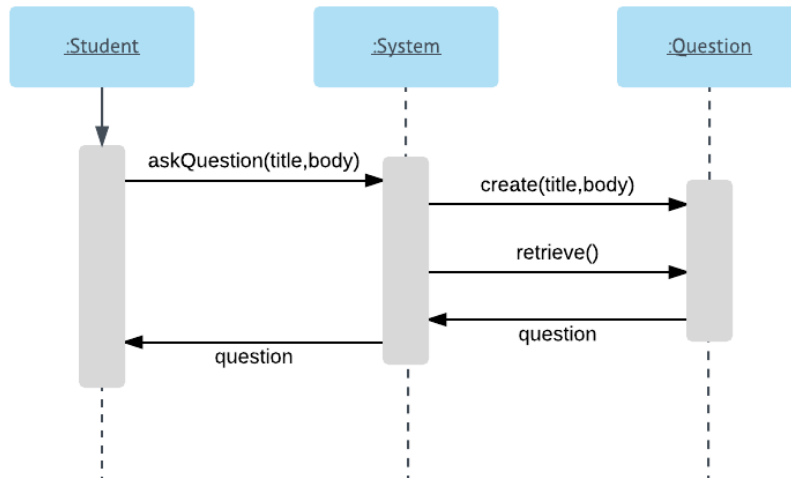
Misc: n/a

Domain Model:

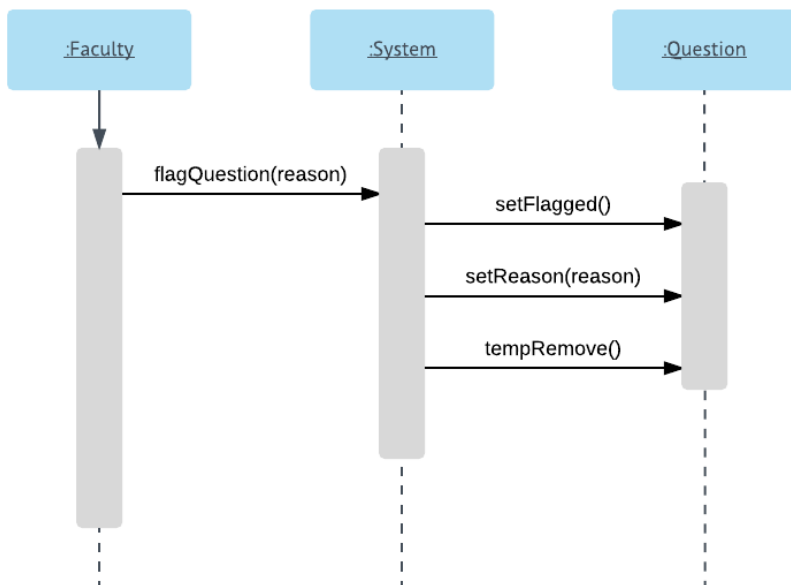


System Sequence Diagrams:

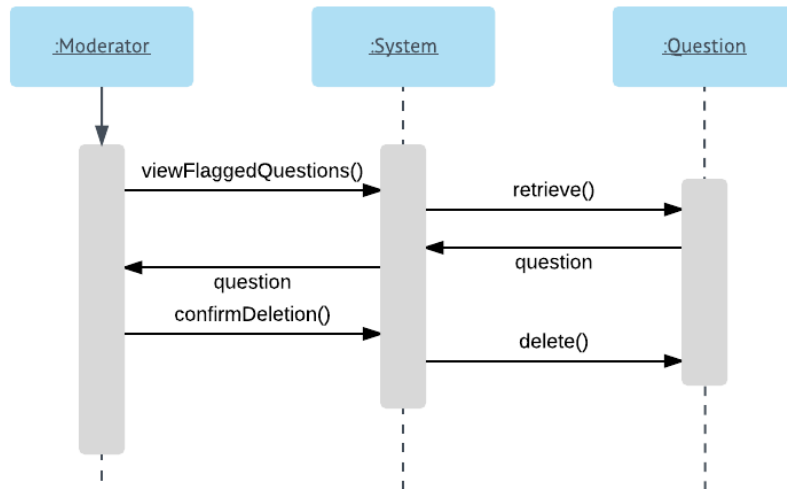
Ask Question:



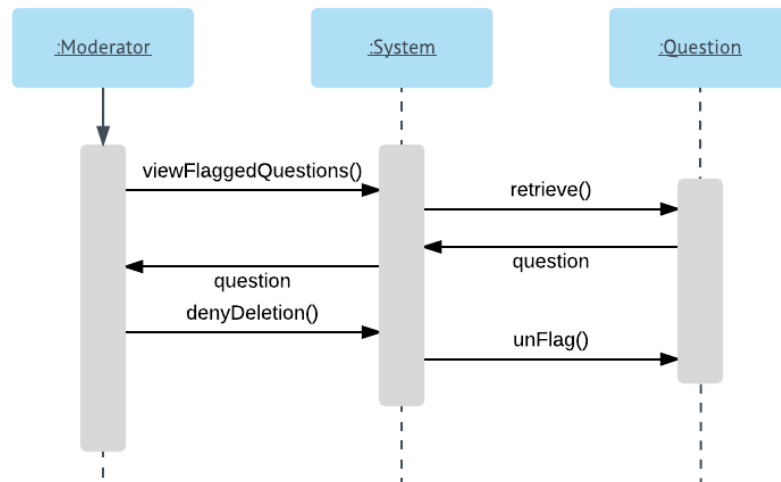
Flag Post:



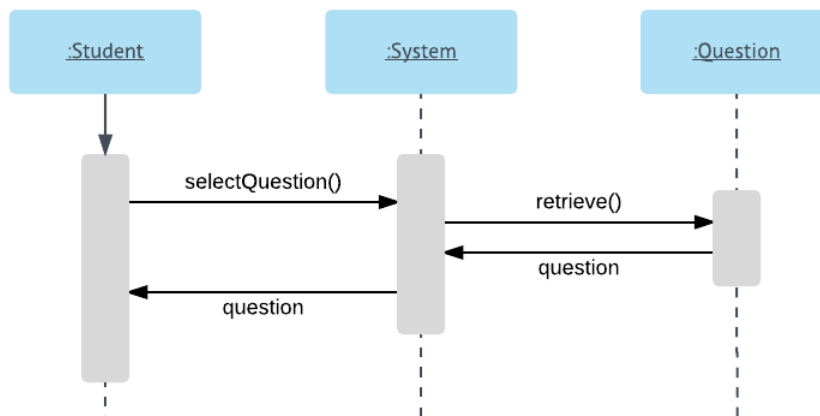
Delete Post:



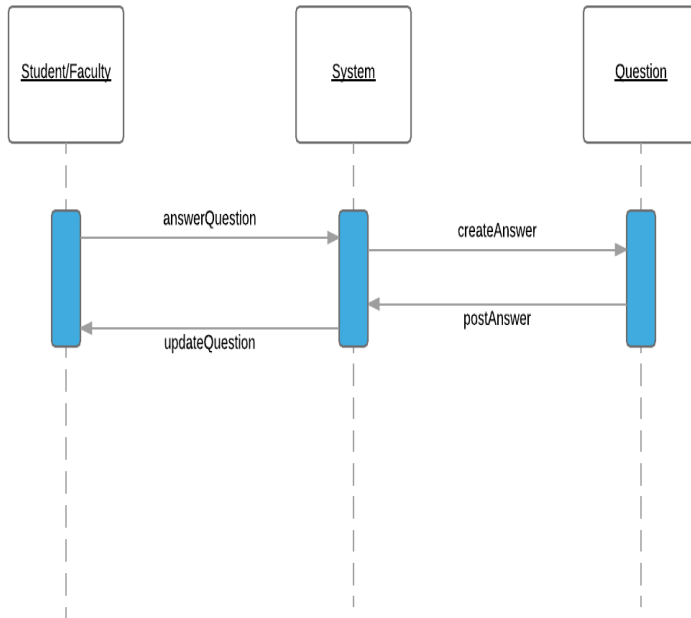
Delete Post Extension 3a:



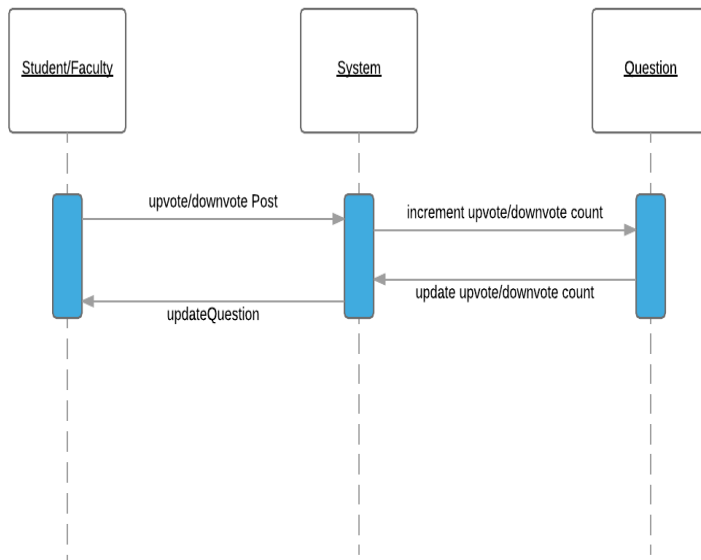
View Post:



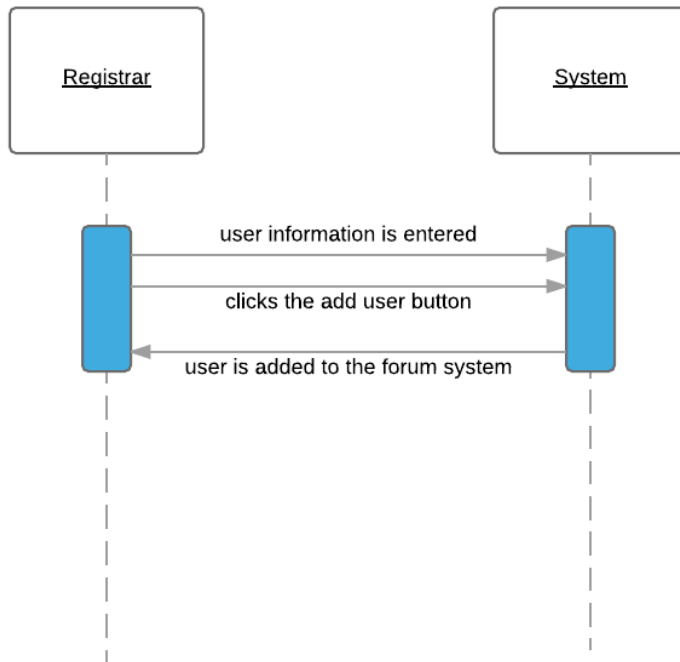
Answer Question:



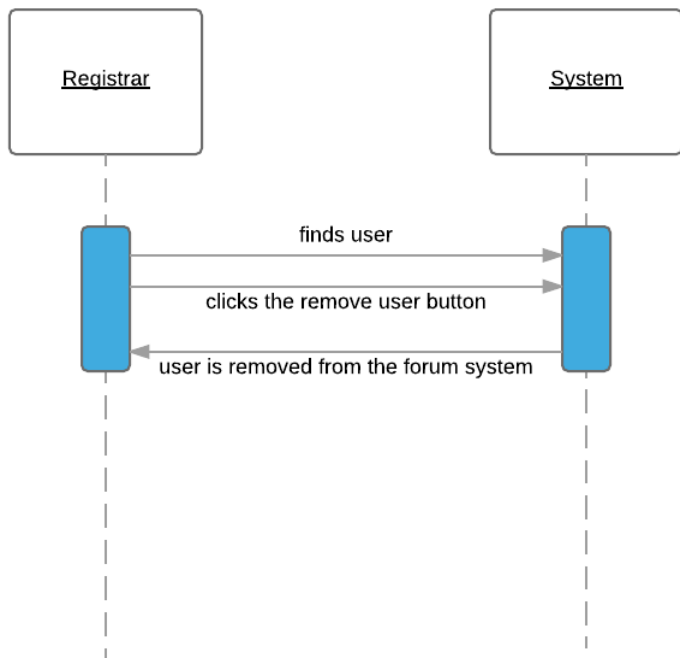
Upvote / Downvote Post:



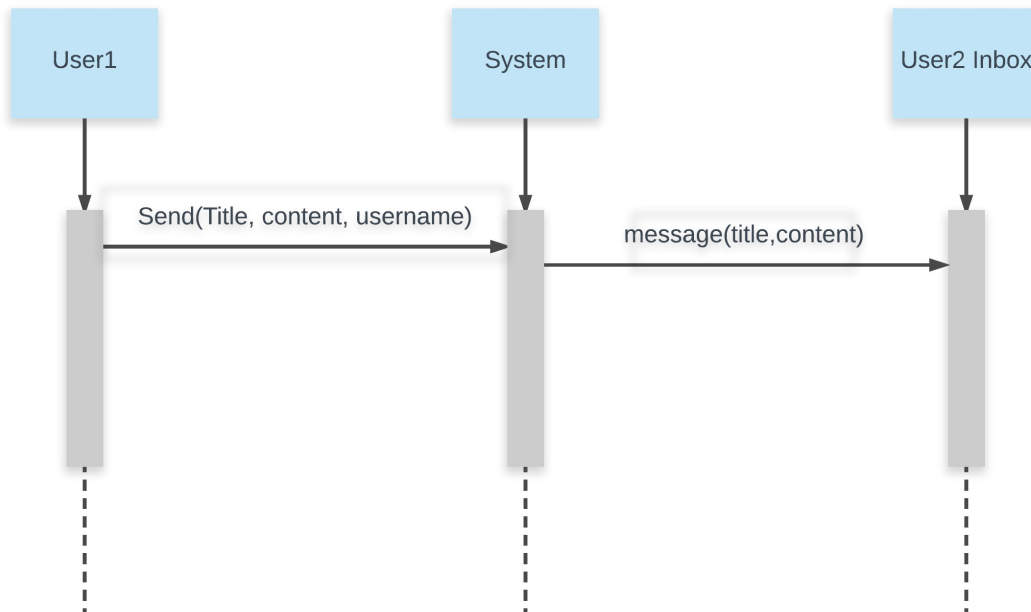
Add User:



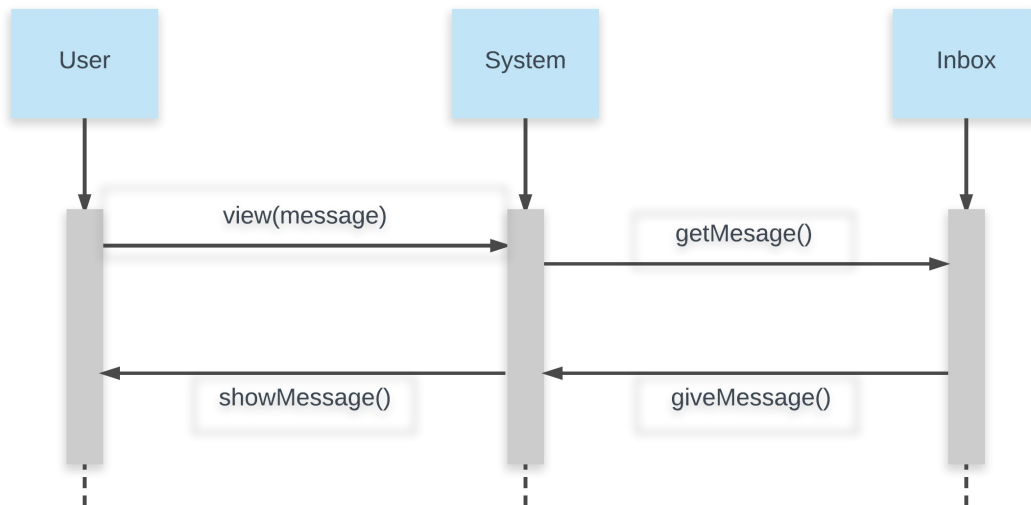
Remove User:



Send Private Message:



View Private Message:



Add/Remove Friend:

