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Use Case Model

We identified six use cases in the figuring out the requirements for this project. The users are going to want to post a question, post an answer either with or without an attachment, vote on an answer, remove a question, and remove an answer.

Use Case Context Model
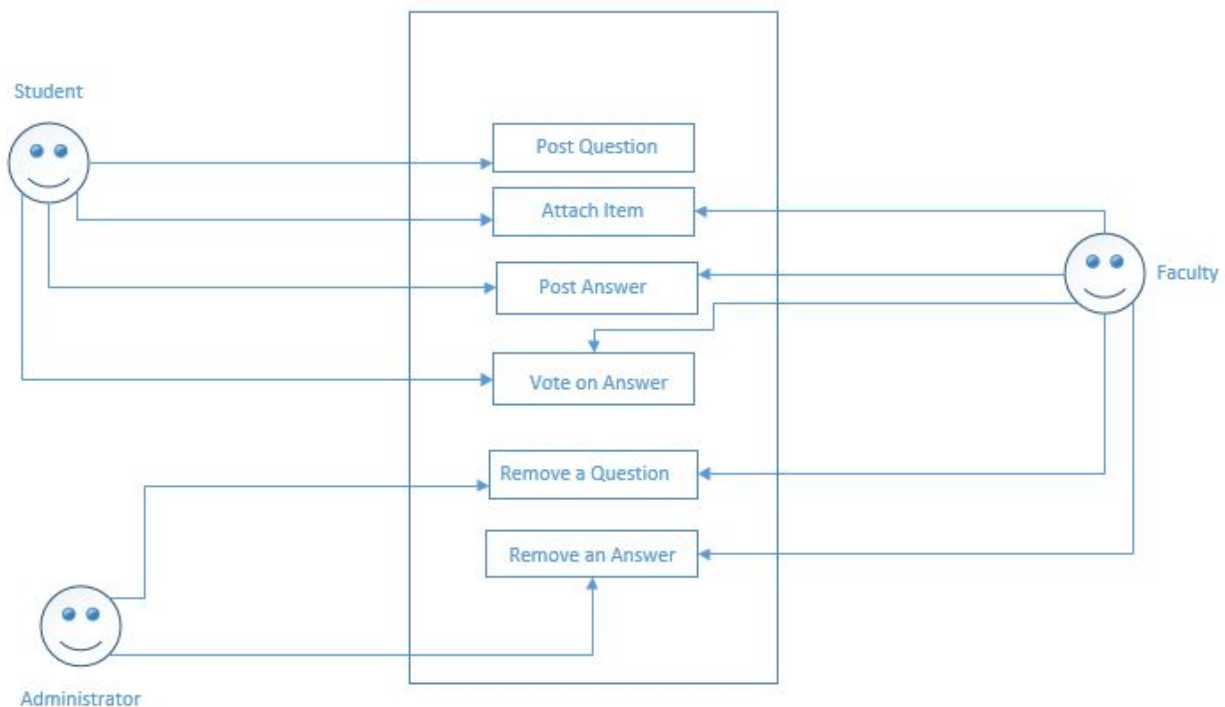
Fully Dressed Use Cases

Use Case 1: Post a Question
Scope: NKUNet application
Level: user goal
Primary Actor: Student, Faculty
Stakeholders and Interests:
     - Student: Wants to be able to ask a question on a particular forum.
Preconditions: Student must be logged in and registered to a forum.
Success Guarantee: Question is posted. Student Users in the forum are able to vote on the question.
Main Success:
1. Student selects a forum to view.
2. System checks to make sure the student is in the class.

3. System allows Student to enter forum.
4. Student posts question in forum.
5. System creates timestamp for question.

Extensions:

*a. At any time, the System checks for login:
    1. System checks for Student login.
        1a. Student is not logged in:
            1. System rejects Student from forum.
            2. System redirects Student to main page.
            3. System alerts Student to login.

2a. System sees that Student is not in class:
    1. System rejects Student from forum.
    2. System redirects Student to main page.
    3. System alerts Student that they are not in the class.

4a. Student cancels posting question:
    1. System alerts Student if they want to cancel post.
    2. Student User decides on action.
        2a. Student accepts canceling post:
            1. System redirects Student to forum page.
        2b. Student declines canceling post:
            1. System redirects Student back to create post page.

Special Requirements:
    - Student must be registered to class and section.

Frequency of Occurrence: Whenever a Student posts a question.

Use Case 2: Remove a Question
Scope: NKUNet application
Level: user goal
Primary Actor: Admin
Stakeholders and Interests:
    - Admin: Wants to moderate a forum by removing an inappropriate/irrelevant question.
Preconditions: Admin must be logged in.
Success Guarantee: Inappropriate/Irrelevant question is removed from the forum.
Main Success:
    1. Administrator enters a forum.
    2. Administrator selects a question.
    3. Administrator deletes question.
    4. System deletes question and all associated answers.

Extensions:

*a. At any time, the System checks for login:
    1. System checks for Admin login.
        1a. Admin is not logged in:
            1. System rejects Admin from entering forum.
            2. System redirects Admin to main page.

3. System alerts Admin to login.

3a. Administrator decides to not delete question:
1. System notifies Administrator if deletion is final.
    1a. Administrator declines deletion:
        1. System redirects Administrator back to forum page.

Frequency of Occurrence: When necessary.

Use Case 3: Remove a Answer
Scope: NKUNet application
Level: user goal
Primary Actor: Admin
Stakeholders and Interests:
    - Admin: Wants to moderate a forum by removing an inappropriate/irrelevant answer.
Preconditions: Admin must be logged in.
Success Guarantee: Inappropriate/Irrelevant answer is removed from the forum.
Main Success:
1. Administrator enters a forum.
2. Administrator selects a question.
3. Administrator selects an answer.
4. System deletes answer and all related sub answers.

Extensions:
*a. At any time, the System checks for login:
1. System checks for Admin login.
    1a. Admin is not logged in:
        1. System rejects Admin from entering forum.
        2. System redirects Admin to main page.
        3. System alerts Admin to login.

4a. Administrator decides to not delete question:
2. System notifies Administrator if deletion is final.
    1a. Administrator declines deletion:
        2. System redirects Administrator back to forum page.

Frequency of Occurrence: When necessary.

Use Case 4: Post answer to a question
Scope: NKUNet application
Level: user goal
Primary actor: Student, Faculty
Stakeholders and Interests:
    - Student: wants to be able to answer a question on a forum.
Preconditions: Student must be logged in and registered to a forum.
Success Guarantee: Answer is posted. Student Users in the forum are able to vote on the question.
Main Success:
1. Student selects a forum to view.
2. System checks to make sure the student is in the class.

3. System allows Student to enter forum.
4. Student posts answer to a question.
5. System creates timestamp for answer.

Extensions:

*a. At any time, the System checks for login:
    1. System checks for Student login.
        1a. Student is not logged in:
            1. System rejects Student from forum.
            2. System redirects Student to main page.
            3. System alerts Student to login.

2a. System sees that Student is not in class:
    1. System rejects Student from forum.
    2. System redirects Student to main page.
    3. System alerts Student that they are not in the class.

4a. Student cancels posting answer:
    1. System alerts Student if they want to cancel post.
    2. Student User decides on action.
        2a. Student accepts canceling post:
            1. System redirects Student to forum page.
        2b. Student declines canceling post:
            1. System redirects Student back to create post page.

Special Requirements:
    - Student must be registered to class and section.

Frequency of Occurrence: Whenever a Student answers a question.

Remaining Use Cases

Use Case 5: Attach item

Scope: NKUNet application
Level: user goal
Primary actor: Student, Faculty
Stakeholders and Interests:
    - Student: wants to be able to attach an item to answer a question on a forum.
Preconditions: Student must be logged in and registered to a forum.
Success Guarantee: Answer is posted with attachment. Student Users in the forum are able to vote on the question.
Main Success:
    1. Student selects a forum to view.
    2. System checks to make sure the student is in the class.
    3. System allows Student to enter forum.
    4. Student posts answer to a question with attachment.
    5. System creates timestamp for answer.

Use Case 6: Vote on answer

Scope: NKUNet application

Level: user goal
Primary actor: Student, Faculty
Stakeholders and Interests:
    - Student: wants to be able to vote on an answer or question.
Preconditions: Student must be logged in and registered to a forum.
Success Guarantee: Vote is recorded. Vote count is updated in the system.
Main Success:
1. Student selects a forum to view.
2. System checks to make sure the student is in the class.
3. System allows Student to enter forum.
4. Students votes up or down on a question/answer
5. Post reflects the vote.

Analysis of Requirement

For this iteration of the project we have identified four use cases that we are going to implement. Those are post question, post answer, remove question, and remove answer.
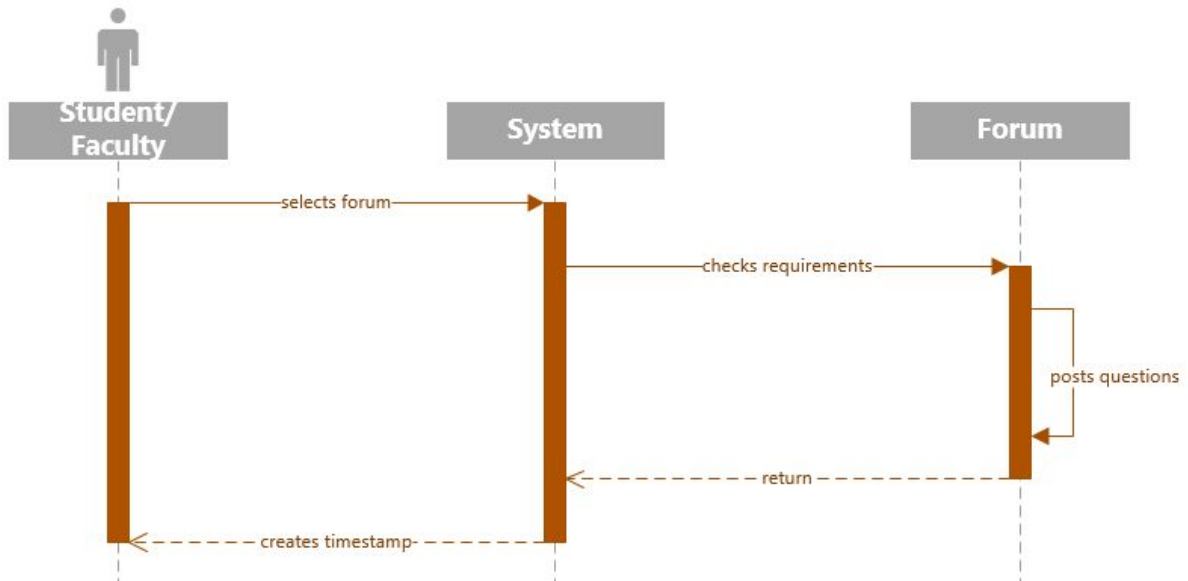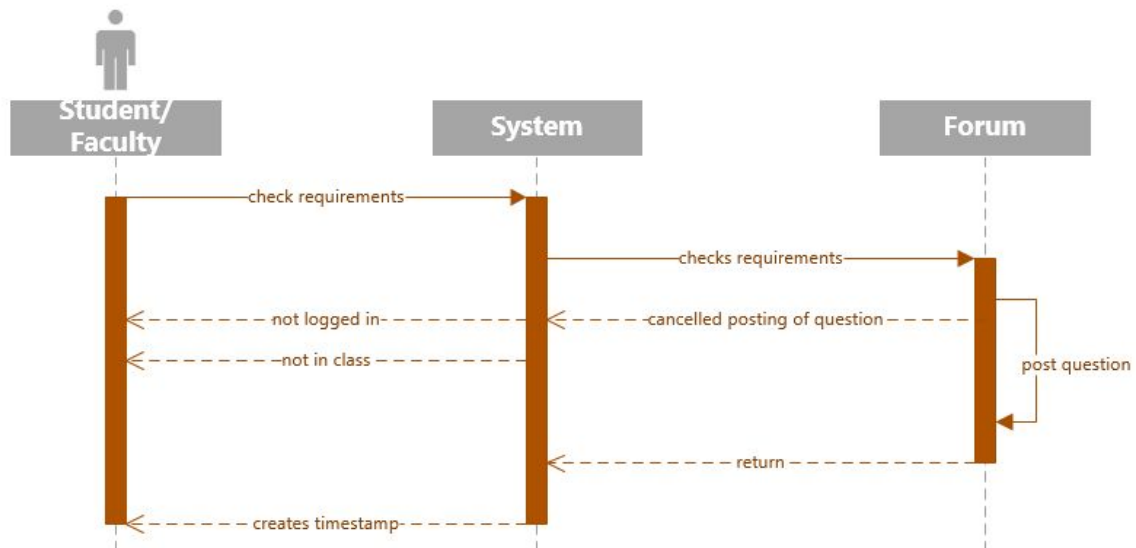
Domain Model
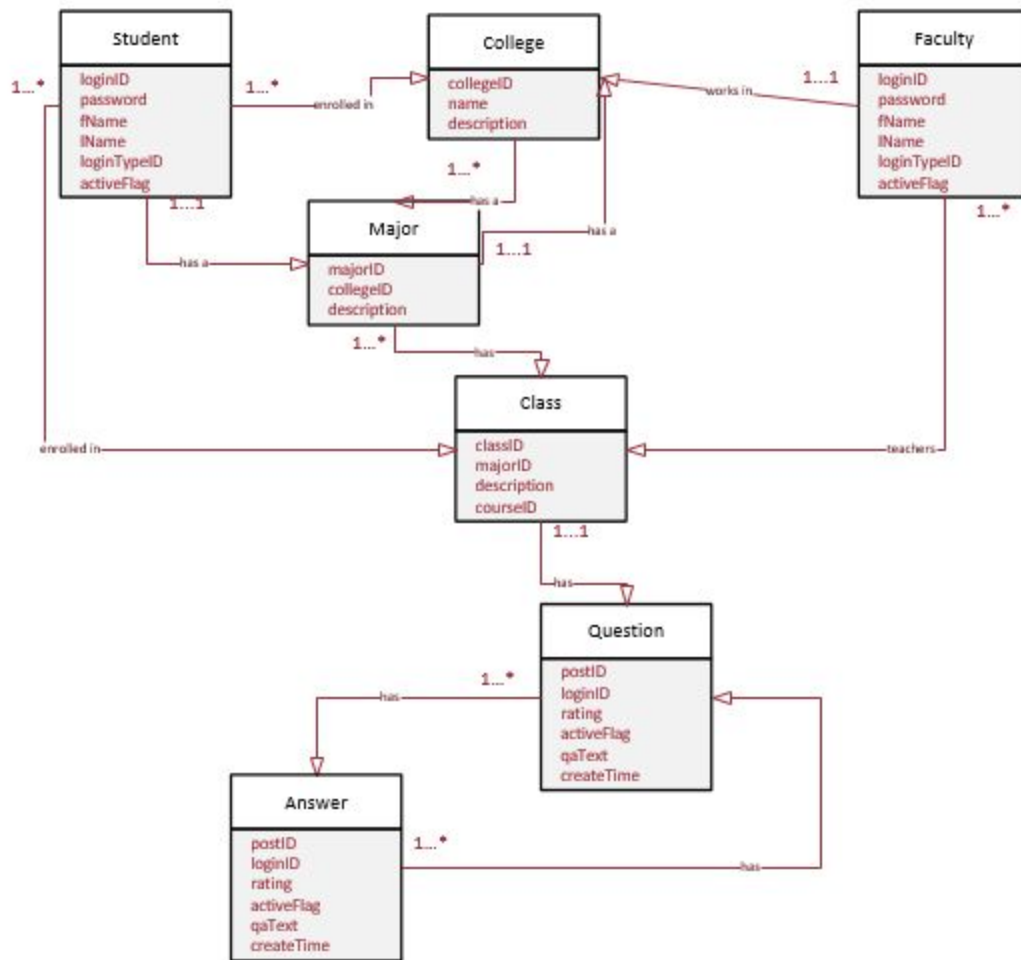
System Sequence Diagrams

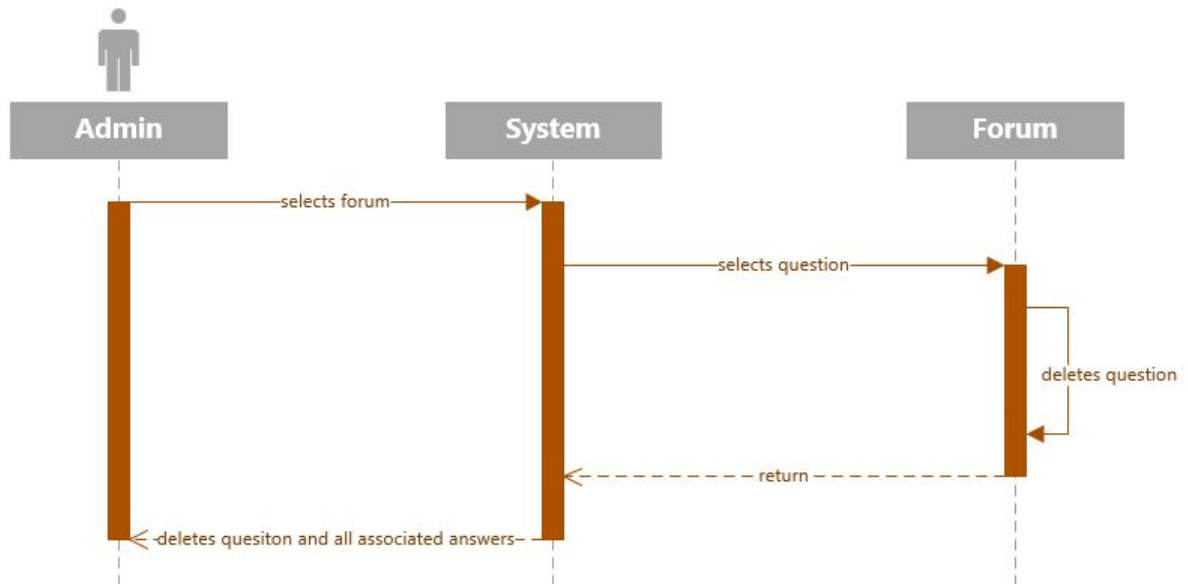Below are the SSD's for the implemented use cases for this iteration
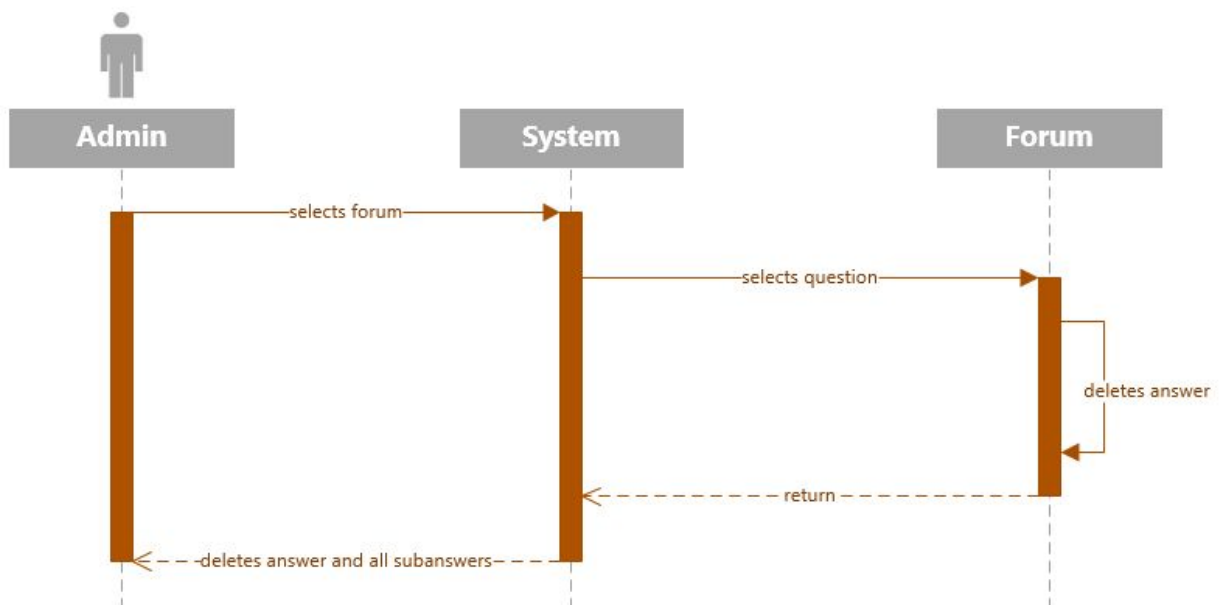
UC1: Post Question

UC1: Post Question Extentions

UC2: Delete Question

UC3: Delete Answer

UC4: Post Answer