Requirements Document

The Borne Collective: NKUNet

Use Case Model

Context Diagram
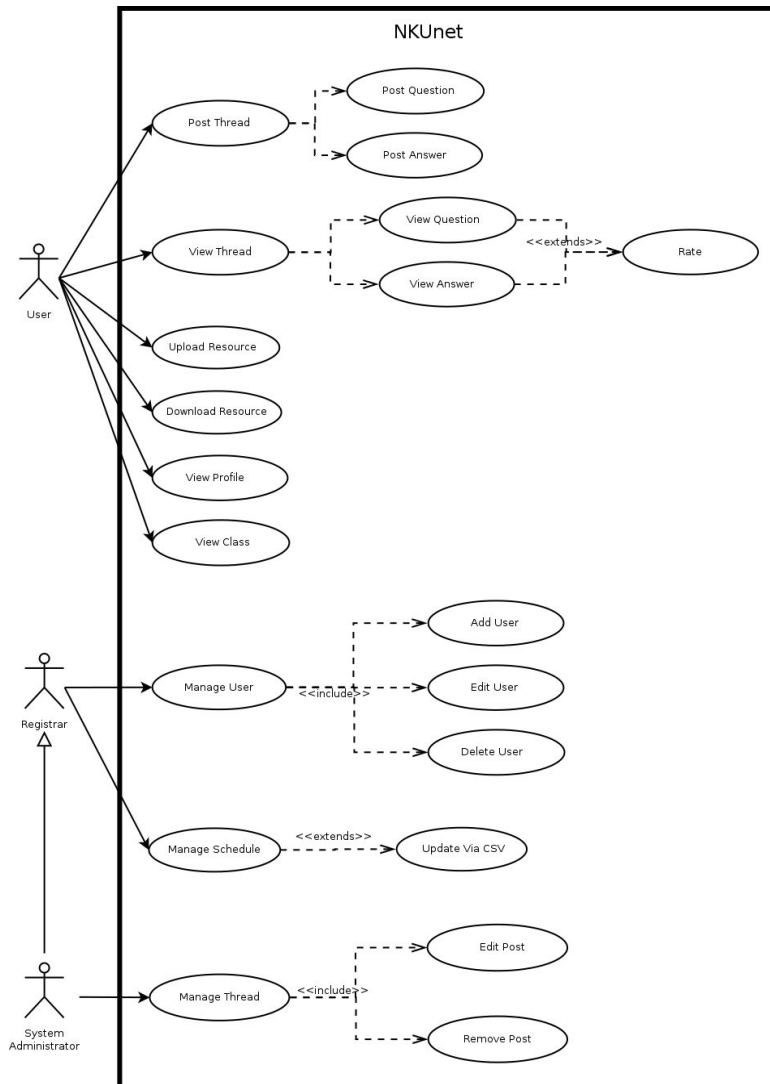
Use Cases

UC1: View Forum

Scope: NKUnet System

Level: user goal

Primary Actor: User
Stakeholders and Interest:

- User: Wants to view a forum of questions related to a specific topic
- NKU: Wants to group questions by forums to organize topics.
- System Administrator: Wants questions grouped by forums for site organization.

Preconditions: User has an account and is logged into NKUNet

Postconditions: View of specific forum is open, showing list of questions.

Basic Flow:
1. User picks a forum to view and selects it.
2. A new page is displayed with a list of questions in that forum.

Alternate Flow:

2a. No questions have been asked in that forum yet.
1. User can ask a question or return to home page.

UC2: Ask Question

Scope: NKUnet System

Level: user goal

Primary Actor: User

Stakeholders and Interest:
- User: Wants to ask a question in a forum about a topic.
- NKU: Wants students to be able to ask questions to have answered.
- System Administrator: Wants question to be placed in forum with the ability to be answered and managed.

Preconditions: User has an account and is logged into NKUNet

Postconditions: Question is posted and others can respond.

Basic Flow:
1. User enters forum from home page.
2. User initiates process to ask question.
3. User enters question title and body.
4. User submits question.

Alternate Flow:

4a. User forgets to enter title
1. System throws error and prompts user to correct mistake.

4b. User forgets to enter body.
1. System throws error and prompts user to correct mistake.

UC3: Answer Question

Scope: NKUnet System

Level: user goal

Primary Actor: User

Stakeholders and Interest:

- User: Wants to share an answer to a question from another user.
- NKU: Wants users to be able to easily answer questions to share knowledge.
- System Administrator: Wants answer process to be quick and responsive.

Preconditions: User has an account and is logged into NKUNet

Postconditions: Response is posted and others can reply or vote.

Basic Flow:
1. User selects forum to view questions.
2. User selects question to view its body.
3. User initiates process to answer question.
4. User enters body of response.
5. User submits response.

Alternate Flow:

5a. User enters nothing in response body.
1. System throws error and prompts user to correct mistake

4a. User cancels answering question.
1. System exits answer process and returns to initial question view.

UC4: View Thread

Scope: NKUnet System
Level: user goal
Primary Actor: User (Student or Faculty)
Stakeholders and Interest:
- User: Wants to view the contents of a thread to read or answer other user questions
- Admin: Wants to log threads visited by users

Preconditions: User Authenticated

Postconditions: Thread post and replies are all displayed, separated by pages if necessary. A user can reply to comments or the main post via an appropriate input field along with buttons to vote up or down a particular replies or posts.

Basic Flow:
1. User searches for a thread
2. System displays search results (UC5)
3. User clicks on a thead
4. System displays all post and replies for the selected thread
5. User can choose to reply to the thread if they desire

Alternate Flow:

1a. User wants to delete a post created by them.
1. User selects the delete option on desired post.
2. System asks user to confirm action
3. System sets a delete flag in database for the post if the user accepts

1b. User wants to edit a post created by them.
1. User selects the edit option on desired post

2. System moves to an edit form with previous post filled in
3. User edits their post then confirms edits
4. System updates post and labels post as 'edited'

UC5: Manage Thread

An administrator needs to be able to edit and delete threads where necessary.

UC6: Manage Users

An administrator needs to be able to manage users, including adding, modifying, and deleting them. A registrar should also be able to add users via a web form or CSV.
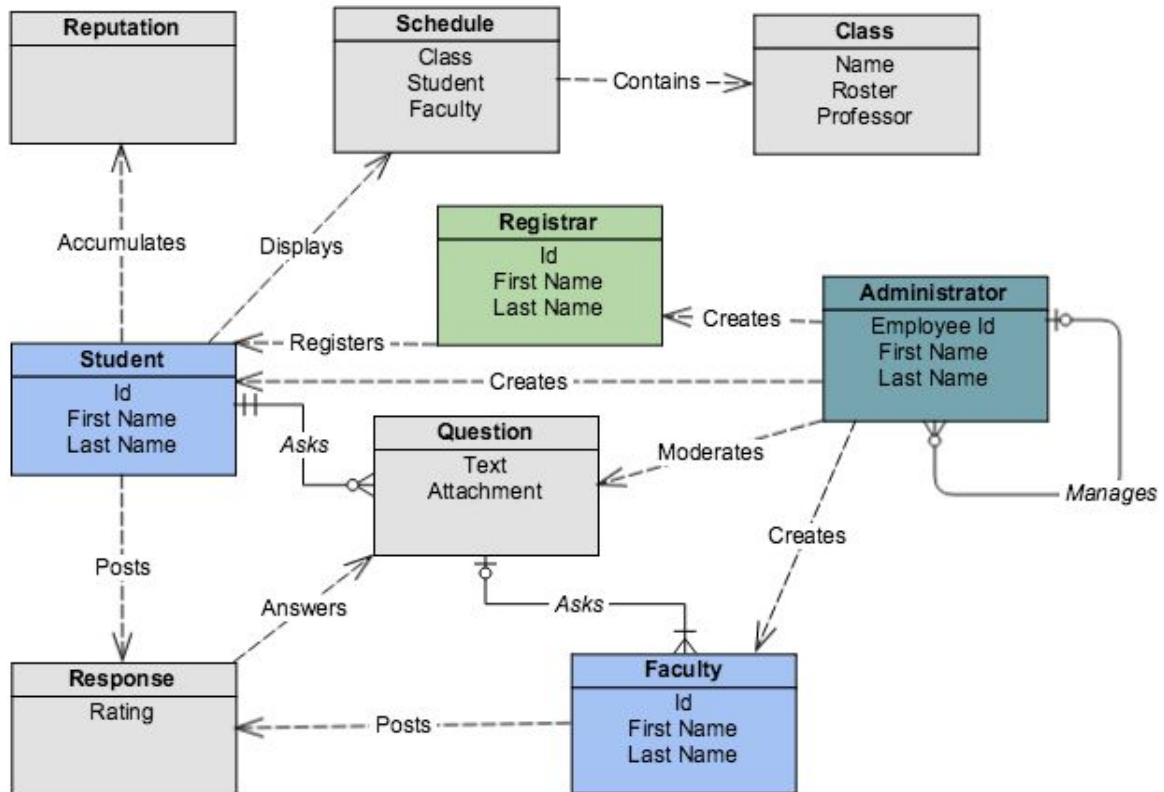
UC7: Search

All users should be able to search for threads by keyword that could be in the thread's title, body, or answers.
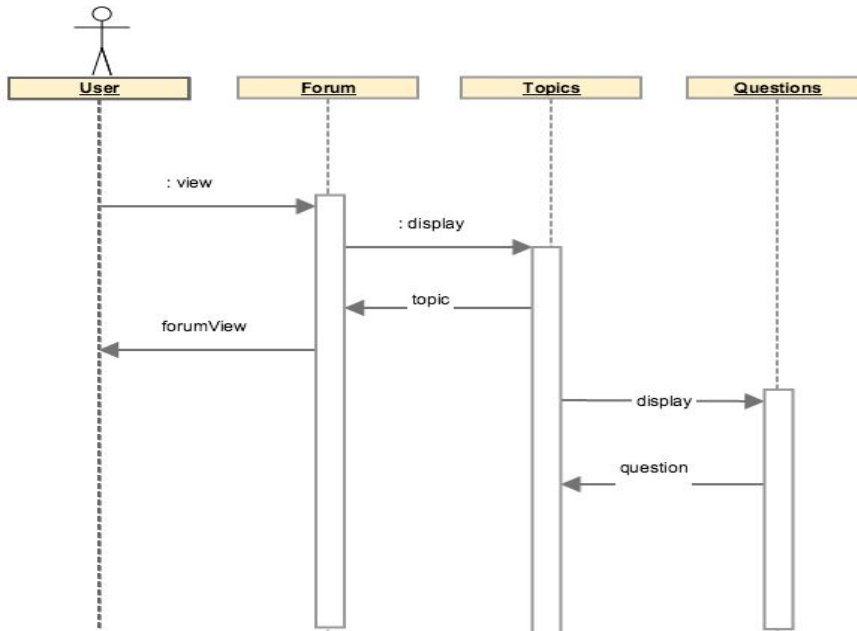
UC8: Manage Schedule

Registrars can manage the class schedules of student users each semester. They can do this via a web form or uploading a CSV. This schedule is displayed on a student's profile.
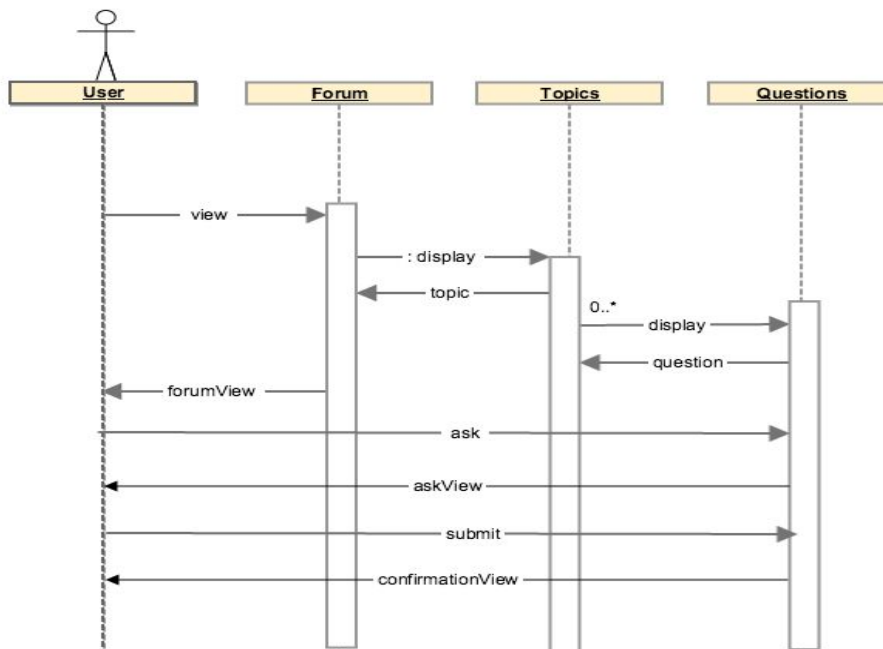
Domain Model

Reputation

Schedule
Class
Student
Faculty

— Contains → **Class**
Name
Roster
Professor

Accumulates

Displays

Registrar
Id
First Name
Last Name

← Creates — **Administrator**
Employee Id
First Name
Last Name

— Registers → **Student**
Id
First Name
Last Name

— Creates —

Asks

Question
Text
Attachment

Moderates

Manages

Posts

Answers

Asks

Creates

Response
Rating

← Posts — **Faculty**
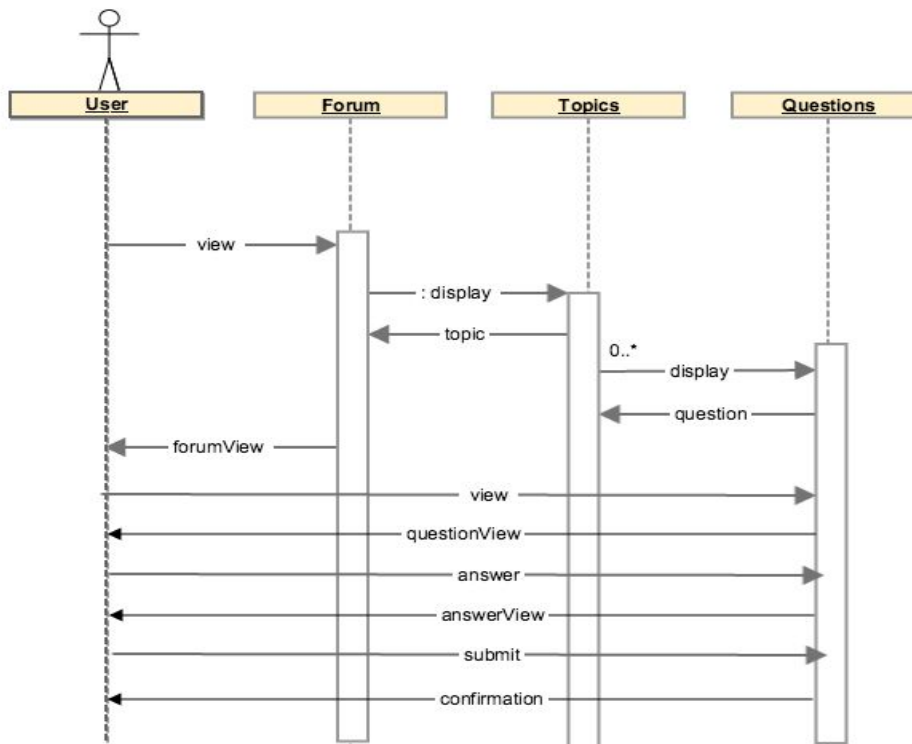Id
First Name
Last Name

System Sequence Diagrams

1. View Forum

2. Ask Question

3. Answer Question

4. View Thread