Requirements Document

High Speed Rail

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Use Case Model

Brief Descriptions

<u>UC1 - View Question</u> - User selects question they wish to view from the system. User is now viewing question and its associated answers, if any.

<u>UC2 - Post Question</u> - User wishes to post a question. User navigates to index in which they want to post their question. User confirms to post new topic.

<u>UC3 - Answer Question</u> - User is viewing a question and chooses to answer it. User drafts a response. User submits the answer. System updates the question with the answer.

<u>UC4 - Rate Answer</u> - User makes a judgement on whether they feel the answer was good or bad. The user chooses the appropriate input based on their opinion. The system will register their input and appropriately update the answers rating.

<u>UC5 - View User</u> - User wishes to view details about another user or view details about their own account. User selects a user from the system. System displays relevant information on selected user.

<u>UC6 - Search for question</u> - User inputs a search term. System returns with a list of questions related to search term.

<u>UC7 - Upload Resource</u> - User wishes to upload file. User accesses upload interface. User browses for relevant file(s) and confirms upload.

<u>UC8 - Manage Question</u> - Admin sees a post of questionable content. Admin chooses to edit question or delete question. If admin chooses to edit the question, the admin drafts the edit. Admin confirms the deletion or modification.

<u>UC9 - Manage Answer</u> - Admin sees a answer of questionable content. Admin chooses to edit or delete the answer. If admin chooses to edit the answer, the admin drafts the edit. Admin confirms the deletion or modification.

<u>UC10 - Manage User</u> - Registrars and Admins wish to add a user, remove a user or edit user schedules. They can access a user through their form, or upload edits.

<u>UC11 - View Topic</u> - User selects Topic they wish to view from the system. User is now viewing Topic and its associated questions, if any.

<u>UC12 - Create Topic</u> - Faculty/Admin opens Topic for their Course.

<u>UC13 - View Course</u> - User selects Course to view from the system. User is now viewing Course and all associated information.

<u>UC14 - Create Course</u> - Faculty/Administrator selects to create Courses.

Fully Dressed

UC5: View User

Primary Actor: User

Stakeholders and Interests:

Student/Faculty: See data about a user to access their or others' cumulative

reputation and other questions and answers by the user.

Administrator: Check user data to decide if it requires punitive action.

Preconditions: Logged in, select a user.

Postconditions: User can view their or other User's data. **Summary:** User selects a username to view that user's data.

Basic Flow:

1. User selects a username.

2. User can view user's avatar, name, cumulative reputation, and recently made questions and answers.

UC8: Manage Question

Primary Actor: Administrator **Stakeholder and Interests:**

Administrator: Quick links for easy access to handle punitive functionality. **Precondition:** Logged in. Viewing some question which an Administrator deems inappropriate.

Postcondition: The question is removed.

Summary: Admin selects to remove question, and does so.

Basic Flow:

1. Admin selects to remove question.

2. System removes question.

UC9: Manage Answer

Primary Actor: Administrator **Stakeholders and Interests:**

Administrator: Quick links for easy access to handle punitive functionality. **Precondition:** Viewing some question where an Administrator deems an answer inappropriate.

Postcondition: The answer is removed.

Summary: Administrator selects answer to be removed, and does so.

Basic Flow:

- 1. Admin selects to remove answer.
- 2. System removes answer.

UC10: Create User

Primary Actor: Administrator, Registrar

Stakeholders and Interests:

Administrator: Quick links for easy access. In-depth creation and management

Precondition: Logged in. Administrator or Registrar wishes to add users.

Postcondition: User is added.

Summary: Administrator wishes to add user. Inputs user data. System adds user and changes list of users accordingly.

Basic Flow:

- 1. Administrator chooses to add user.
- 2. Administrator inputs users data.
- 3. Administrator submits form.
- 4. System creates user accordingly.

Alternate Flow:

- 3a. Administrator submits form with invalid data.
 - a. Bring up notice and ask for correction upon attempted submission.

UC11: View Topic

Primary Actor: User

Stakeholders and Interests:

User: Quick, obvious functionality to get to a relevant topic.

Precondition: Logged in

Postcondition: User is viewing Topic

Summary: User selects to view that Topic data.

Basic Flow:

- 1. User selects Topic to view
- 2. User can view the selected Topic, containing its questions

UC12: Create Topic

Primary Actor: Faculty, Administrator

Stakeholders and Interests:

Faculty: Create Topic for a Course with information required to identify it.

Administrator: Have quick, easy means to remove Topic if needed.

Precondition: Faculty or Administrator have class info to add to the system, or

Administrator wishes to remove Topic.

Postcondition: New Topic created, or chosen Topic removed.

Summary: Faculty or Administrator navigate to Topic management. Administrator picks

existing class to delete, or either enters details for a new class.

Basic Flow:

- 1. Faculty/Administrator selects Topic creation page.
- 2. Faculty/Administrator enters information on topic to create.
- 3. System commits addition or deletion.

Alternate Flow:

- 3a. Faculty/Administrator submits form with invalid data.
 - a. System brings up notice and ask for correction upon attempted submission.

UC13: View Course

Primary Actor: User

Stakeholders and Interests:

User: Quick, easy access to course and associated information.

Precondition: Logged in

Postcondition: User is viewing Course.

Summary: User selects Course they wish to view, and see its associated information

Basic Flow:

1. User selects Course they wish to view

2. User can view selected Course and its associated information.

UC14: Create Course

Primary Actor: Administrator **Stakeholders and Interests:**

Administrator: Quick access to quickly manage classes.

Precondition: Logged in. Administrator has a course to add, edit, or remove.

Postcondition: Change is made according to administrator action.

Summary: Administrator navigates to Course management. Picks an existing class to edit or remove, or selects to create a new class. Fills out relevant information. Submits change.

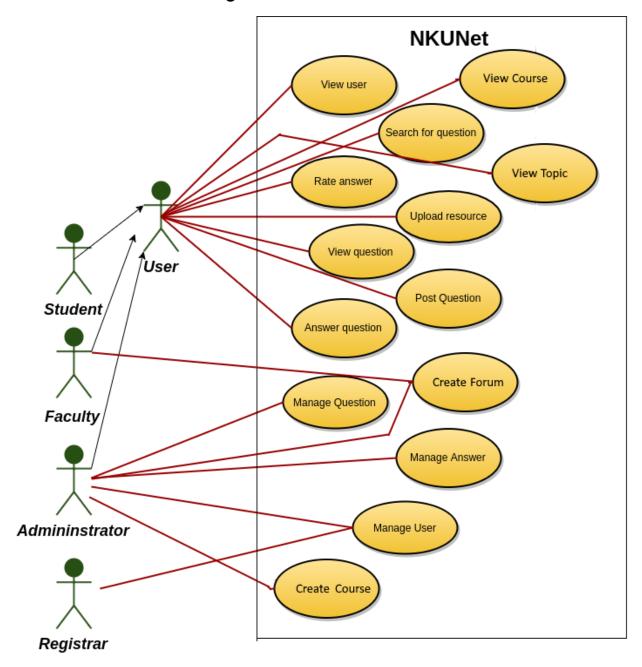
Basic Flow:

- 1. Administrator navigates to Course creation.
- 2. Administrator picks class to add
- 3. Administrator fills out relevant information
- 4. Administrator submits change to system

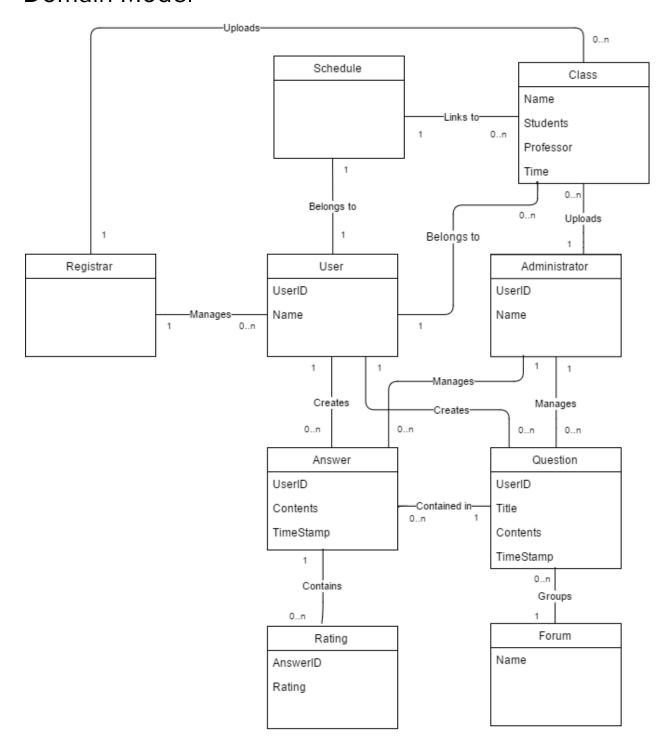
Alternate Flow:

- 4a. Administrator submits form with invalid data.
 - a. System brings up notice and ask for correction upon attempted submission.

Use Case Context Diagram



Domain Model



System Sequence Diagrams

