Requirements Document

High Speed Rail

Andy Gergel | E.J. Schroeder | Matt Moellman | Mikael Soto

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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

Fully Dressed

UC1: View question

    Primary actor: User

    Preconditions: User is authenticated

    Postconditions: User can view full question and responses

    Stakeholders and Interests:

        Students: Wants questions to be viewed and answered

        System: Wants questions to be accessible and easily found.

    Summary: User selects a question from a list and gets to see the full question and all associated answers.

    Basic Flow:

1. User selects the question they want to view from the forum
2. System finds all data associated with the question.
3. System displays the question along with all responses and their ratings.

    Alternate Flows:

        2a. System is unable to load the question

            1. System returns user to previous screen.

UC2: Post question

    Primary actor: User

    Stakeholders and Interests:

        Student: Simple layout. Quick, easy options.

        Faculty: Simple layout. Quick, easy options.

    Preconditions: Authenticated as student, faculty, or administrator user.

    Postconditions: Question is recorded, and user is taken to the newly created question.

    Summary: User will click button to create new question in a forum or on their page. Editor window will allow data entry. Submit button will post question for anyone to see.

    Basic Flow:

1. User select viewing a forum to post a question
2. User enters information, including formatting
3. User select to submit and post question
4. System now displays question in respective forum or page

    Alternate Flow:

        3a. User chooses to cancel the submission.

            1. System returns user to previous screen.

        4a. System rejects submission because of missing content

            1. System returns user to previous screen and displays errors

UC3: Answer question

Primary actor: User

Stakeholders and Interests:

Student: Quick, simple interface

Faculty: Quick, simple interface, report

Preconditions: Logged in as either student, faculty or an administrator and viewing a question.

Postconditions: Answer displayed with its respective question

Summary: User looks at a question and chooses to answer it. User edits a response and submits. System updates the question with a new answer.

Basic Flow:

1. User selects to answer when viewing a question
2. User enters information with formatting
3. User selects to submit and post answer with the respective question
4. System now displays answer under question

Alternate Flows:

3a. User decides to discard the answer

1. System returns the user to the question page.

4a. System rejects submission due to missing content.

1. System returns user to previous screen with a list of errors

UC4: Rate answer

Primary actor: User

Stakeholders and Interests:

Student/Faculty: The answer poster's reputation should be viewable to see its reputability. Simple means to show support for an answer they approve of. Question-asker wants simple way to see commonly supported answer.

Preconditions: Logged in, viewing a question, has at least 1 answer they wish to rate
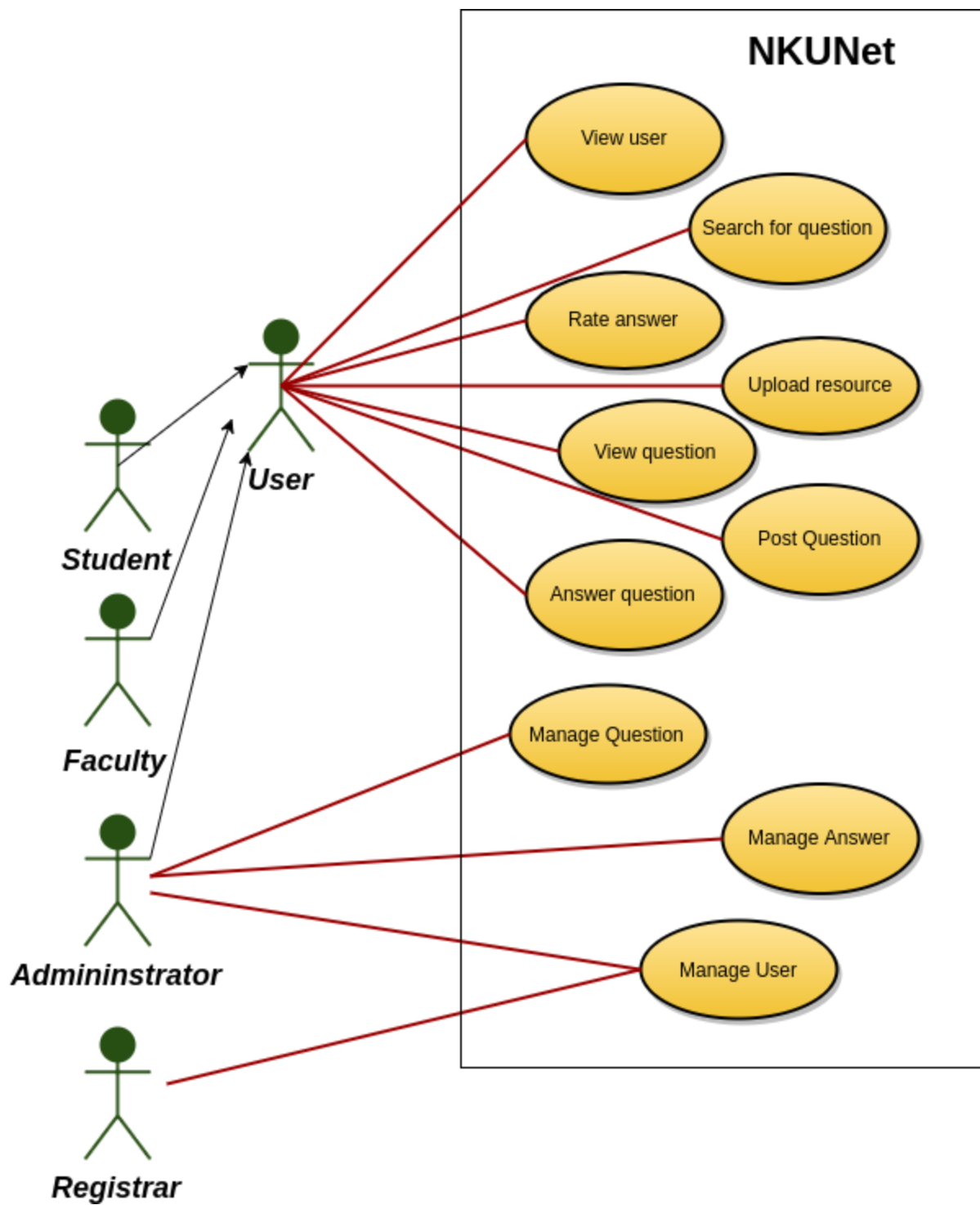
Postconditions: Local change to denote vote, system stores it for future requests

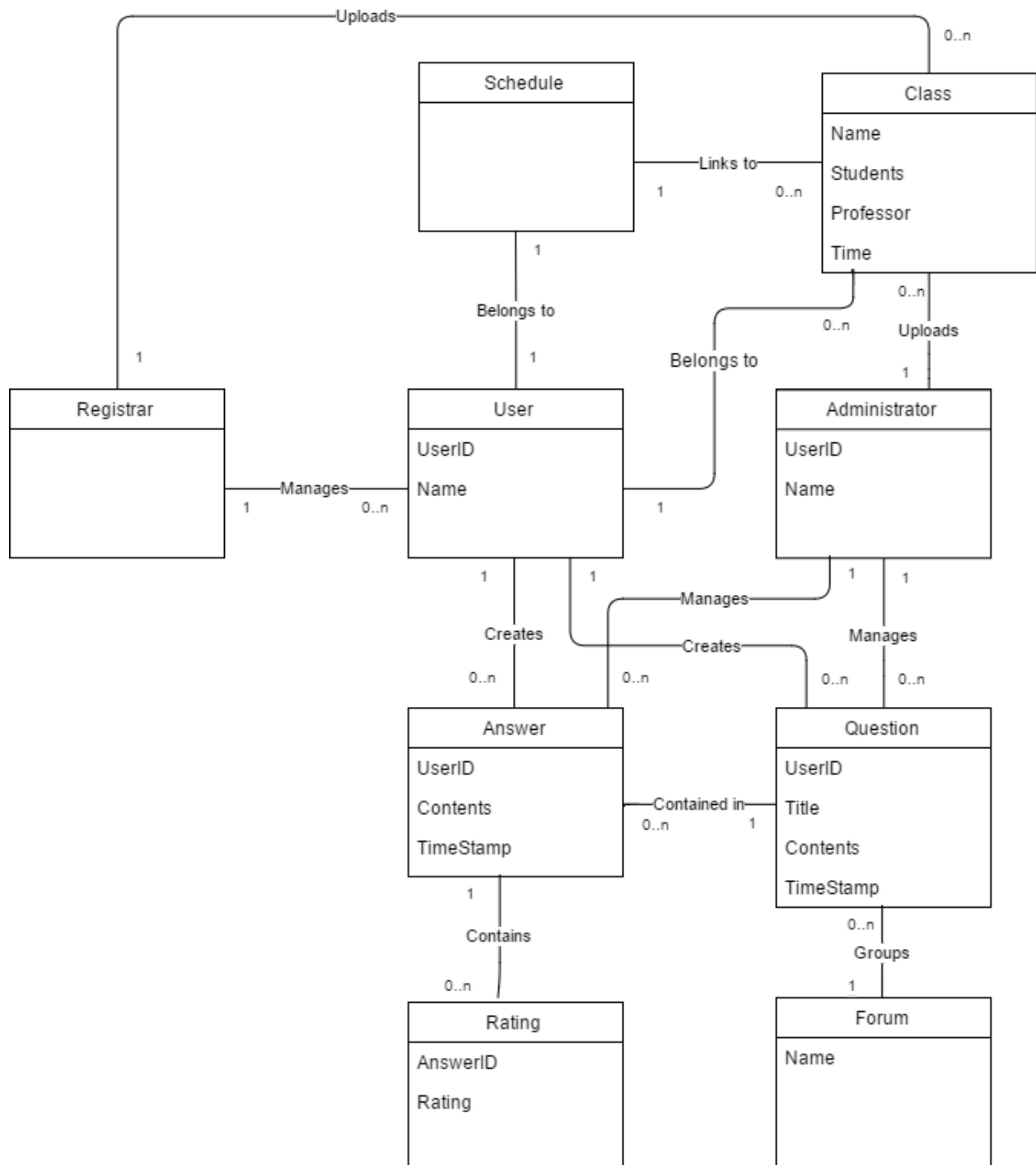**Summary:** Admin deletes an inappropriate answer to a question.

Basic Flow:

1. User selects up or down vote button while viewing answers to question.
2. System locally confirms the vote.
3. System saves vote to edit answer's cumulative vote rating.

Use Case Context Diagram

Domain Model

System Sequence Diagrams