

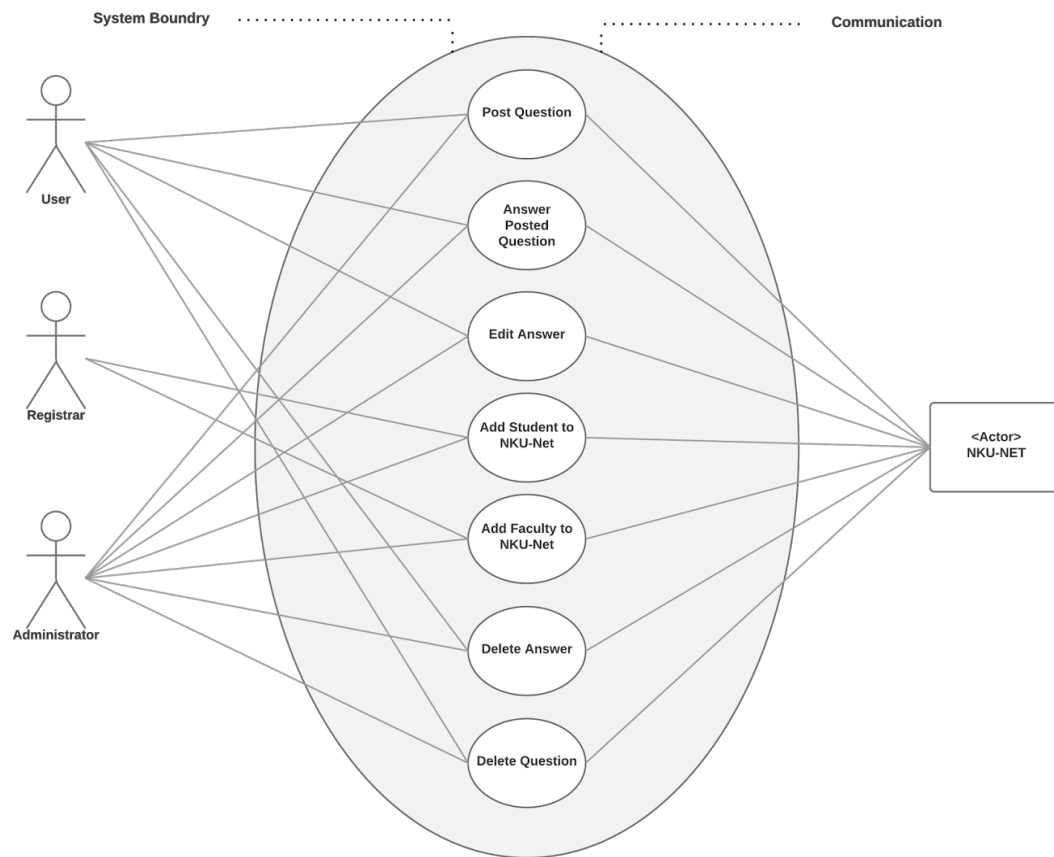
Requirements Document

USE CASE DIAGRAM:	2
USE CASES	3
Use Case (UC1): Post Question.	3
Use Case (UC2): Answer Question.	4
Use Case (UC3): Edit Answer.	5
Use Case (UC4): Delete Answer.	6
Use Case (UC5): Delete Question.	7
Use Case (UC6): Edit Question.	8
Use Case (UC7): Upvote/Downvote Question.	9
Use Case (UC8): Upvote/Downvote Answer.	10
Use Case (UC9): Authenticate User.	11
Brief Use Cases:	12
DOMAIN MODEL:	13
SYSTEM SEQUENCE DIAGRAMS:	14

USE CASE DIAGRAM:

USE CASE DIAGRAM

Team Super Ghost | Iteration 1



USE CASES

Use Case (UC1): Post Question.

Scope: Post Question System

Level: user-goal

Primary Actor: Student, Faculty Member

Stakeholders and Interests:

- Student: Wants to be able to post question on NKU-Net.
- Faculty Member: Wants to be able to post question on NKU-Net.
- Administrator: Wants to be able to post question on NKU-Net.
- School: Wants students/faculty to be able to post questions as quickly as possible.

Preconditions: Student or faculty member is logged into system upon being identified and authenticated.

Success guarantee (or Postconditions): Student or faculty member posts question onto NKU-Net.

Main Success Scenario (or Basic Flow):

1. Student/faculty member navigates to course forum.
2. Student/faculty member types out question title.
3. Student/faculty member types out question body.
4. Student/faculty member submits question to NKU-Net.

Student/faculty member repeats steps 1-4 until done posting questions.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. To ensure security of system, student/faculty member is logged off and connection is shut off.

Special Requirements:

- System posts question within 30 seconds, 90% of the time.
- Compatible with all major Internet browsers.

Technology and Data Variations List:

*a. Student/faculty member can use any major web browser (Firefox, Google Chrome, Safari, Microsoft Edge, etc.).

Frequency of Occurrence: Could be nearly continuous.

Use Case (UC2): Answer Question.

Scope: Submit Answer System

Level: user-goal

Primary Actor: Student, Faculty Member

Stakeholders and Interests:

- Student: Wants to be able to post answer to question on NKU-Net.
- Faculty Member: Wants to be able to post answer to question on NKU-Net.
- Administrator: Wants to be able to post answer to question on NKU-Net.
- School: Wants students/faculty members to post answers as quickly/easily as possible.

Preconditions: Student or faculty member is logged into system upon being identified and authenticated.

Success guarantee (or Postconditions): Student or faculty member posts answer to question on NKU-Net.

Main Success Scenario (or Basic Flow):

1. Student/faculty member selects course forum.
2. Student/faculty member selects question to answer.
3. Student/faculty member types out their answer to question.
4. Student/faculty member submits answer to question to NKU-Net.

Student/faculty member repeats steps 1-4 until done posting questions.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. To ensure security of system, student/faculty member is logged off and connection is shut off.

Special Requirements:

- System posts answer to question within 30 seconds, 90% of the time.
- Compatible with all major Internet browsers.

Technology and Data Variations List:

*a. Student/faculty member can use any major web browser (Firefox, Google Chrome, Safari, Microsoft Edge, etc.).

Frequency of Occurrence: Could be nearly continuous.

Use Case (UC₃): Edit Answer.

Scope: Edit Answer System

Level: user-goal

Primary Actor: Administrator

Stakeholders and Interests:

- Administrator: Wants to be able to edit answer on NKU-Net.
- School: Wants answers to be correct and helpful to students.

Preconditions: Administrator is logged into system upon being identified and authenticated with admin permissions.

Success guarantee (or Postconditions): Administrator's updated edit of the answer is uploaded to NKU-Net.

Main Success Scenario (or Basic Flow):

1. Administrator selects a class forum.
2. Administrator selects a question forum.
3. Administrator selects an answer that he/she wants to edit.
4. Administrator edits the answer to his/her liking.
5. Administrator saves the edit.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. To ensure security of system, Administrator is logged off and connection is shut off.

Special Requirements:

- System posts edited answer within 30 seconds, 90% of the time.
- Compatible with all major Internet browsers.

Technology and Data Variations List:

*a. Administrator can use any major web browser (Firefox, Google Chrome, Safari, Microsoft Edge, etc.).

Frequency of Occurrence: Could be nearly continuous.

Use Case (UC4): Delete Answer.

Scope: Delete Answer System

Level: user-goal

Primary Actor: Administrator

Stakeholders and Interests:

- Administrator: Wants to be able to delete answer on NKU-Net.
- School: Wants inappropriate answers to be removed quickly.

Preconditions: Administrator is logged into system upon being identified and authenticated with admin permissions.

Success guarantee (or Postconditions): Administrator's chosen answer is deleted from NKU-Net.

Main Success Scenario (or Basic Flow):

1. Administrator selects a class forum.
2. Administrator selects a question forum.
3. Administrator selects an answer that he/she wants to edit
4. Administrator chooses to delete the answer.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. To ensure security of system, Administrator is logged off and connection is shut off.

Special Requirements:

- System deletes answer within 30 seconds, 90% of the time.
- Compatible with all major Internet browsers.

Technology and Data Variations List:

*a. Administrator can use any major web browser (Firefox, Google Chrome, Safari, Microsoft Edge, etc.).

Frequency of Occurrence: Could be nearly continuous.

Use Case (UC5): Delete Question.

Scope: Delete Question System

Level: user-goal

Primary Actor: Administrator

Stakeholders and Interests:

- Administrator: Wants to be able to delete question on NKU-Net.
- School: Wants inappropriate questions to be deleted promptly.

Preconditions: Administrator is logged into system upon being identified and authenticated with admin permissions.

Success guarantee (or Postconditions): Administrator's chosen question is deleted from NKU-Net.

Main Success Scenario (or Basic Flow):

1. Administrator selects a class forum.
2. Administrator selects a question forum.
3. Administrator selects a question that he/she wants to edit
4. Administrator chooses to delete the question.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. To ensure security of system, Administrator is logged off and connection is shut off.

Special Requirements:

- System deletes question within 30 seconds, 90% of the time.
- Compatible with all major Internet browsers.

Technology and Data Variations List:

*a. Administrator can use any major web browser (Firefox, Google Chrome, Safari, Microsoft Edge, etc.).

Frequency of Occurrence: Could be nearly continuous.

Use Case (UC6): Edit Question.

Scope: Edit Question System

Level: user-goal

Primary Actor: Administrator

Stakeholders and Interests:

- Administrator: Wants to be able to edit question on NKU-Net.
- School: Wants questions to be appropriate and helpful to students.

Preconditions: Administrator is logged into system upon being identified and authenticated with admin permissions.

Success guarantee (or Postconditions): Administrator's updated edit of the question is uploaded to NKU-Net.

Main Success Scenario (or Basic Flow):

1. Administrator selects a class forum.
2. Administrator selects a question that he/she wants to edit.
3. Administrator edits question to his/her liking.
4. Administrator saves question.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. To ensure security of system, Administrator is logged off and connection is shut off.

Special Requirements:

- System posts edited question within 30 seconds, 90% of the time.
- Compatible with all major Internet browsers.

Technology and Data Variations List:

*a. Administrator can use any major web browser (Firefox, Google Chrome, Safari, Microsoft Edge, etc.).

Frequency of Occurrence: Could be nearly continuous.

Use Case (UC7): Upvote/Downvote Question.

Scope: Upvote/Downvote Question System

Level: user-goal

Primary Actor: Student, Faculty Member

Stakeholders and Interests:

- Student: Wants to receive credit/incentive for question.
- Faculty: Wants to encourage students into posting good questions.
- Administrator: Wants good posting techniques to be encouraged.
- School: Wants good posting techniques to be encouraged.

Preconditions: Student/Faculty Member is logged into system upon being identified and authenticated.

Success guarantee (or Postconditions): Question's upvote/downvote information is updated in NKU-Net.

Main Success Scenario (or Basic Flow):

1. Student/Faculty Member selects a class forum.
2. Student/Faculty Member selects a question in forum.
3. Student/Faculty Member upvotes or downvotes a question.
4. System updates the vote count for the question.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. To ensure security of system, Administrator is logged off and connection is shut off.

Special Requirements:

- System upvotes/downvotes question within 30 seconds, 90% of the time.
- Compatible with all major Internet browsers.

Technology and Data Variations List:

*a. Administrator can use any major web browser (Firefox, Google Chrome, Safari, Microsoft Edge, etc.).

Frequency of Occurrence: Could be nearly continuous.

Use Case (UC8): Upvote/Downvote Answer.

Scope: Upvote/Downvote Answer System

Level: user-goal

Primary Actor: Student/Faculty Member

Stakeholders and Interests:

- Student: Wants to be able to receive credit/incentive for answer.
- Faculty Member: Wants to encourage students into posting good answers.
- Administrator: Wants to encourage students into posting good answers.
- School: Wants answers that are the most helpful to be seen first.

Preconditions: Student/Faculty Member is logged into system upon being identified and authenticated.

Success guarantee (or Postconditions): Answer's upvote/downvote information is updated on NKU-Net.

Main Success Scenario (or Basic Flow):

1. Student/Faculty Member selects a class forum.
2. Student/Faculty Member selects a question forum.
3. Student/Faculty Member upvotes/downvotes the answer of their liking.
4. System updates the vote count for the answer.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. To ensure security of system, Administrator is logged off and connection is shut off.

Special Requirements:

- System updates votes within 30 seconds, 90% of the time.
- Compatible with all major Internet browsers.

Technology and Data Variations List:

*a. Administrator can use any major web browser (Firefox, Google Chrome, Safari, Microsoft Edge, etc.).

Frequency of Occurrence: Could be nearly continuous.

Use Case (UC9): Authenticate User.

Scope: Authenticate System

Level: user-goal

Primary Actor: User

Stakeholders and Interests:

- Students: Wants to login as fast as possible.
- Faculty: Wants to login as fast as possible.
- Administrator: Wants login to be secure.
- School: Wants students to not be able to modify each other's data.

Preconditions: User already has an account created.

Success guarantee (or Postconditions): Administrator's updated edit of the answer is uploaded to NKU-Net.

Main Success Scenario (or Basic Flow):

1. User types in email address and password into login page.
2. System authenticates user.
3. System notifies user of successful login and redirects them to course page.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. To ensure security of system, Administrator is logged off and connection is shut off.

2a. Authentication Fails

1. System notifies user of authentication failure.

Special Requirements:

- System posts edited answer within 30 seconds, 90% of the time.
- Compatible with all major Internet browsers.

Technology and Data Variations List:

*a. Administrator can use any major web browser (Firefox, Google Chrome, Safari, Microsoft Edge, etc.).

Frequency of Occurrence: Could be nearly continuous.

Brief Use Cases:

Upvote/Downvote Answer to Question: User views their course forum that has a list of questions. User selects a question to view and views question's answers. The user selects an answer and upvotes or downvotes it. The system increments/decrements the votes for the answer and updates the database. The system displays to the user the updated page.

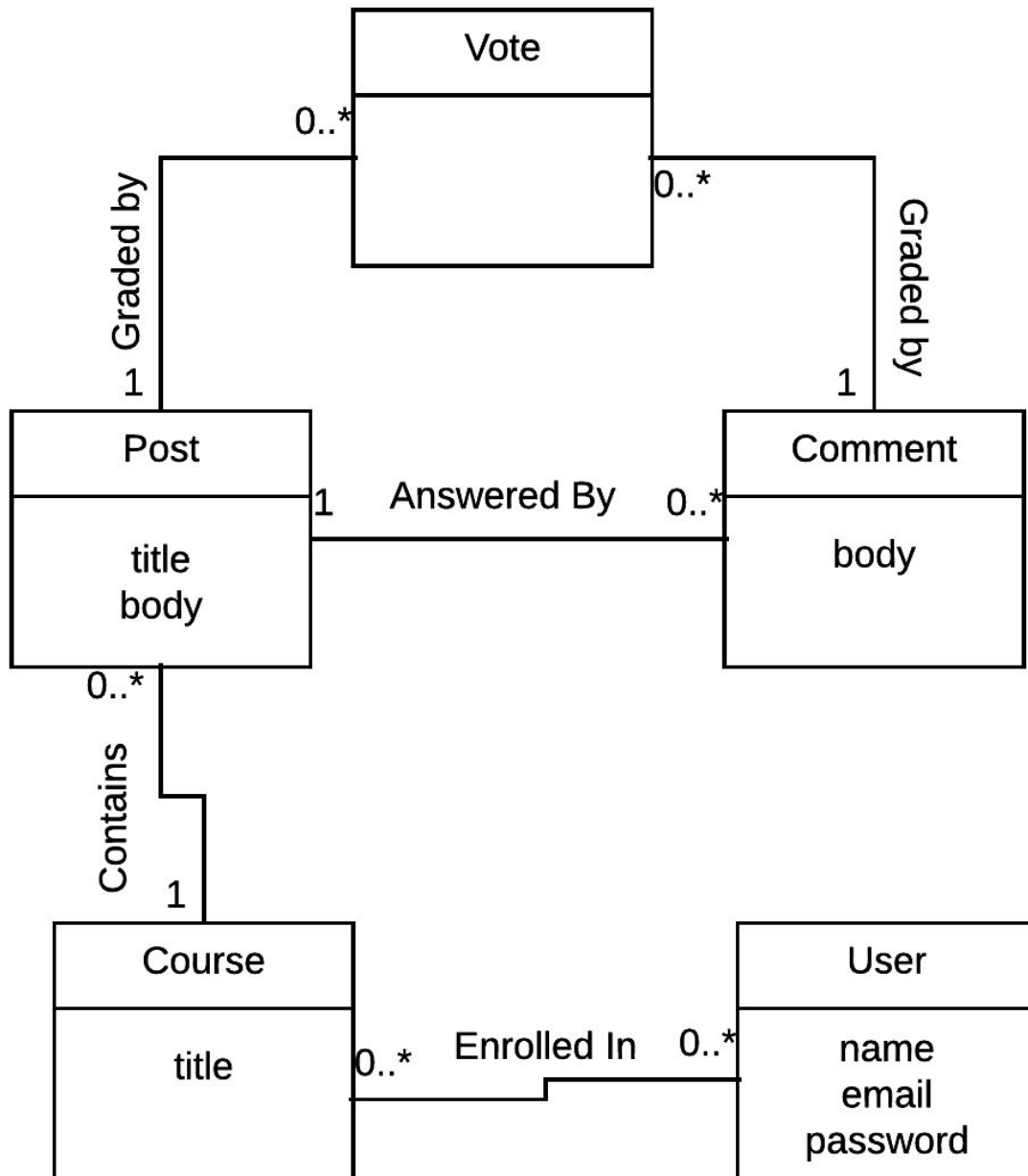
Add Student to NKU-Net: Registrar/Administrator arrives on the update/create user page and fills out the required fields for the new student. The Registrar/Administrator submits the input and the system processes and validates the user input. If the information is unique then a new student is created by the system. If it is not unique then the system asks the Registrar/Administrator if they would like to update the student's information. The Registrar/Administrator says yes and the system updates the database. The system notifies the Registrar/Administrator of the successful update or creation of the student.

Add Faculty Member to NKU-Net: Registrar/Administrator arrives on the update user page and fills out the required fields for the new faculty member. The Registrar/Administrator submits the input and the system processes and validates the user input. If the information is unique then a new faculty member is created by the system. If it is not unique then the system asks the Registrar/Administrator if they would like to update the faculty member's information. The Registrar/Administrator says yes and the system updates the database. The system notifies the Registrar/Administrator of the successful update or creation of the faculty member.

Update Profile Page: The user arrives on their profile page and edits fields that they would like to change. The user saves the changes and the system validates and processes user input. The changes are made in the database and the system displays to the user the updated page.

DOMAIN MODEL:

Domain Model: Iteration 2



SYSTEM SEQUENCE DIAGRAMS:

