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# Requirements Document

# USE CASE DIAGRAM:

**USE CASE DIAGRAM**                                        Team Super Ghost | Iteration 1
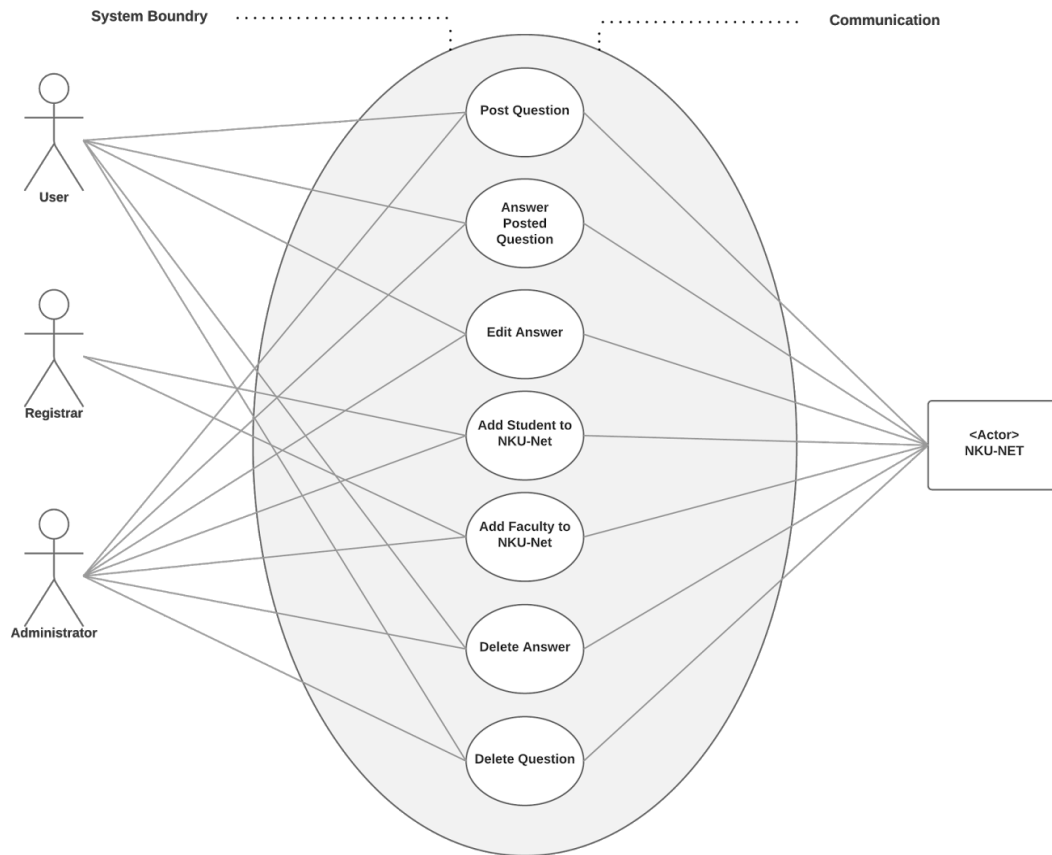
# USE CASES

## Use Case (UC1): Post Question.

**Scope**: Post Question System
**Level**: user-goal
**Primary Actor**: Student, Faculty Member
**Stakeholders and Interests**:
— <u>Student</u>: Wants to be able to post question on NKU-Net.
— <u>Faculty Member</u>: Wants to be able to post question on NKU-Net.
— <u>Administrator</u>: Wants to be able to post question on NKU-Net.
— <u>School</u>: Wants students to be added as immediately 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 clicks 'post question' button.
2. Student/faculty member clicks textbox in newly displayed window.
3. Student/faculty member types out question of their choice.
4. Student/faculty member clicks 'submit' button to post question on 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): Post Answer.

**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 able to post answer to question on NKU-Net.
— School: Wants students to be added as immediately 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 clicks 'answer question' button to post answer.
2.     Student/faculty member clicks textbox in newly displayed window.
3.     Student/faculty member types out their answer to question.
4.     Student/faculty member clicks 'submit' button to post answer on 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**:

— <u>Administrator</u>: Wants to be able to delete answer on NKU-Net.
— <u>School</u>: 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**:
— <u>Administrator</u>: Wants to be able to delete question on NKU-Net.
— <u>School</u>: 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.).

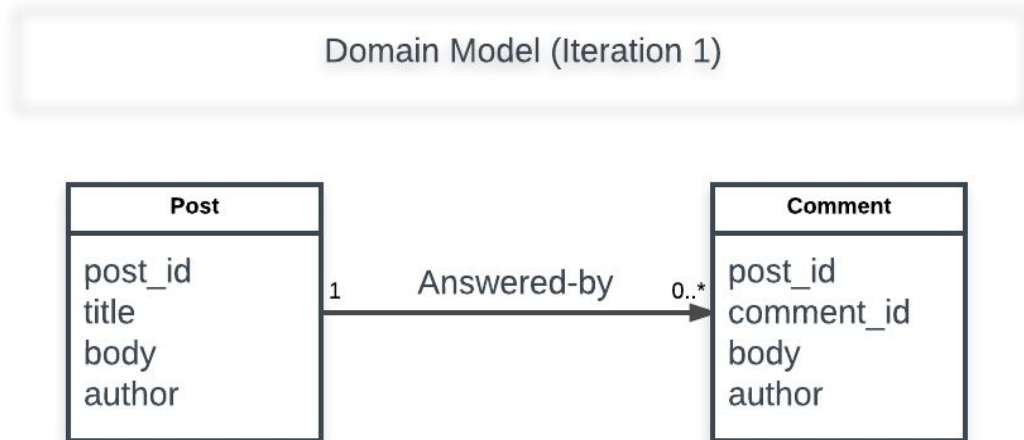**Frequency of Occurrence**: Could be nearly continuous.

# Brief Use Cases:

*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.

# DOMAIN MODEL:



Domain Model (Iteration 1)

| Post | | Comment |
|------|------|---------|
| post_id<br>title<br>body<br>author | 1 — Answered-by → 0..* | post_id<br>comment_id<br>body<br>author |

# SYSTEM SEQUENCE DIAGRAMS:

Post Question



:User create(title, body, author) :System

Post Answer



:User create(body, author) :System

Edit Answer



:Admin editComment(body, author) :System

Delete Answer

:Admin

deleteComment()

:System

Delete Question

:Admin

deletePost()

:System