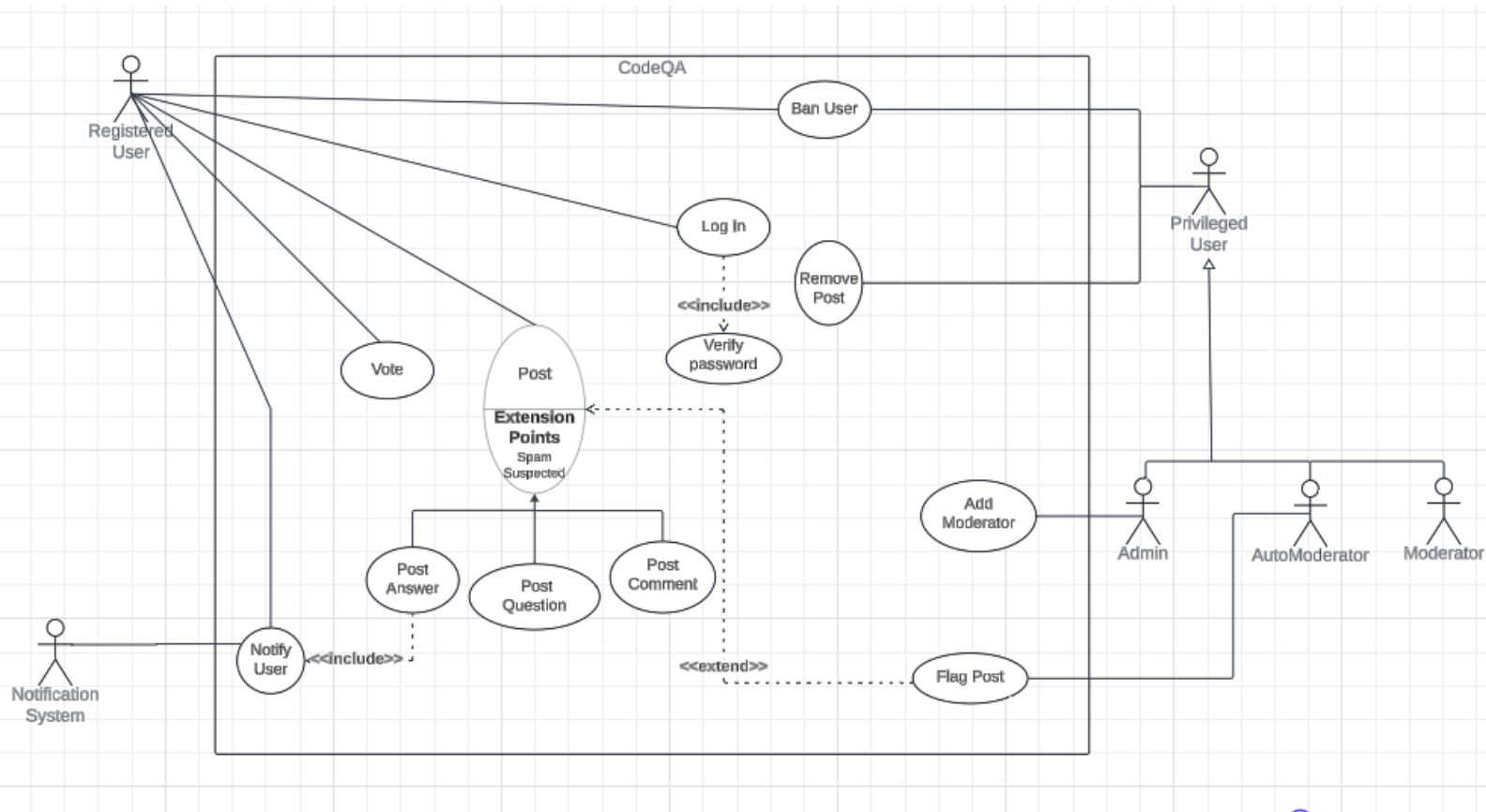


Use Case Diagram



Use Case Description

Use Case: Post
ID: 1
Brief description This use case allows registered users to create posts that can be questions or answers on the CodeQA platform. Each post can be voted on, commented on, and contains statistics such as views and the number of answers.
Primary actors Registered User
Secondary actors Automoderator
Preconditions The user must be registered and logged in to create a post.

Main flow

1. The use case starts when a registered user selects the option to "Create Post."
2. The platform presents a template to create a question or an answer.
3. The user enters the content of the post and assigns relevant tags.
4. The user submits the post for publishing.
5. The system validates the post content.
6. If the content is valid, the system publishes the post and notifies the user of success.
7. The system updates the platform to display the new post to other users.

Extension point: spam suspected

Else:

- 6.1 If the content is not valid, the system notifies the user of the errors.
- 6.2. The user edits the content and resubmits the post.

Postconditions

A new post is successfully created and is visible on the CodeQA platform.

Alternative flows

- If the post is identified as irrelevant by other users or admins, it enters the moderation queue for potential deletion.
- Users may edit their posts after creation, triggering a post-update process.
- If the user cancels the post creation, then no post is created.

Use Case: Log In**ID: 2****Brief description**

The user logs into their CodeQA account

Primary actors

Registered User

Secondary actors

None

Preconditions

None

Main flow

1. The use case starts when the registered user clicks the 'Log In' button on the webpage
2. The system loads a pop-up login form
3. The registered user fills in the fields for username and password and clicks the 'Log In' button on the form
4. Include (Verify Password)
5. The user is logged in
6. The login form closes and the user is returned to the page they were previously viewing
- .
- .

Postconditions

The registered user is logged in to their account.

Alternative flows

Incorrect Password

Username not found

Use Case: Ban User

ID: 3

Brief description: Allows moderators to ban a user from the CodeQA platform

Primary actors: Privileged User

Secondary actors: Registered User

Preconditions: The privileged user is logged in.

Main flow 1. Privileged user navigates to the user’s profile or the moderation panel 2. Privileged user selects the “Ban User” option 3. Privileged user provides a reason for the ban (optional) 4. Privileged user specifies the duration of the ban (if applicable) 5. Privileged user confirms the ban 6. System disables the user’s account and prevents them from accessing the platform .
Postconditions: The registered user is banned from the platform, and their account is disabled
Alternative flows: If the moderator cancels the ban, no action is taken.

Use Case: Notify User (Munzir)
ID: 4
Brief description: Allows the Notification System to send notification to users when answers are posted on the CodeQA platform
Primary actors: Notification System
Secondary actors: Registered User
Preconditions: The Notification System has access to the event triggering the notification.
Main flow 1. Notification System receives a new answer to a user’s question 2. Notification System identifies the user to notify 3. Notification System checks the user’s notification preferences to determine the preferred notification channel 4. Notification System formats the notification messages based on the event trigger and user’s preferences. 5. Notification System sends the notification to the user via the preferred notification channel(s) 6. Notification System logs the sent notification for tracking and reporting purposes .
Postconditions: The user receives the notification regarding the event.
Alternative flows: If the user has disabled notifications, the Notification System does not send the notification to the User

Class Diagram

