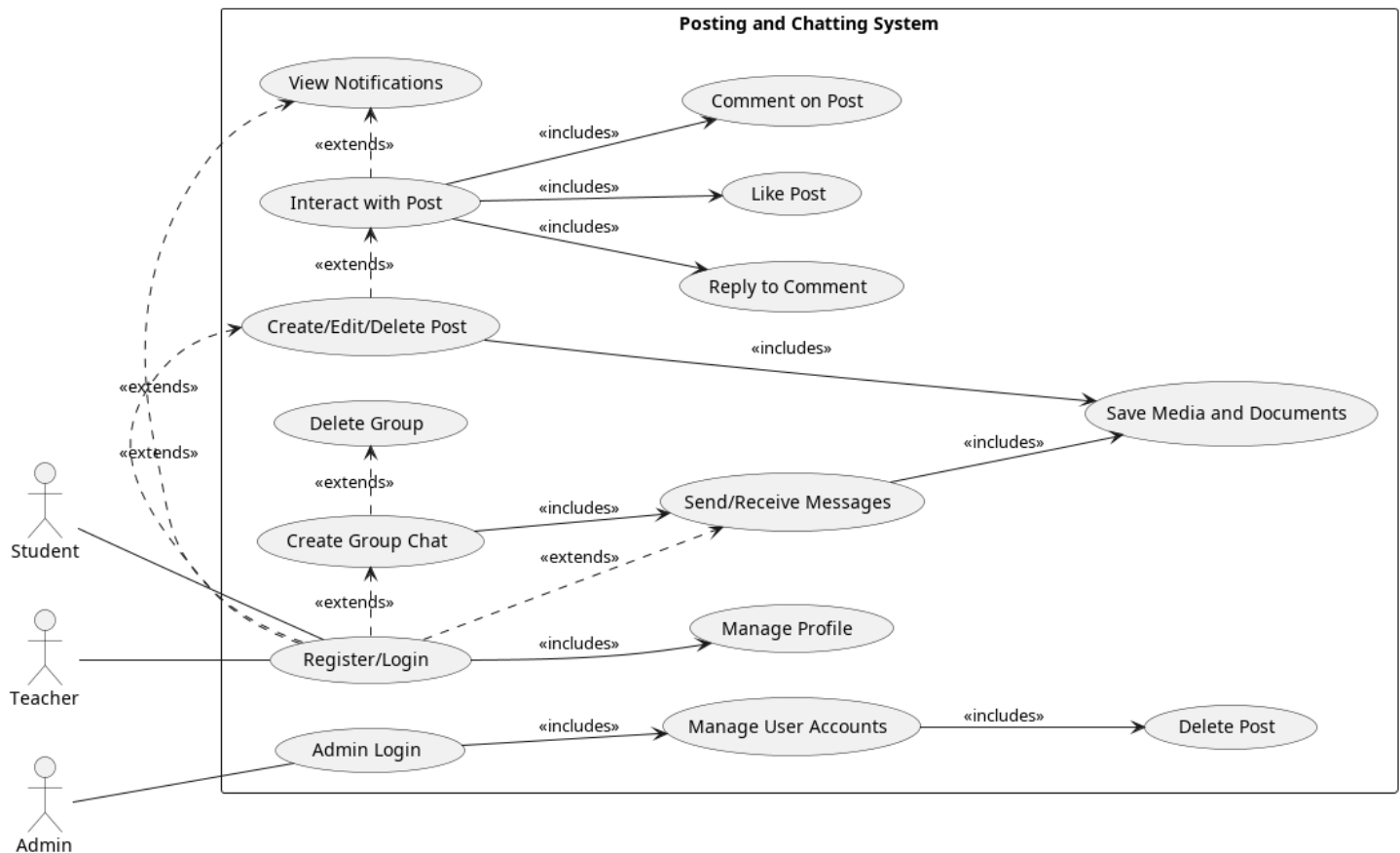# UCSH Community Project

Posting and Chatting System

Posting and Chatting System Use Case Diagram

Posting and Chatting System Use Case Description

Use Case 1: Select Role (User or Admin)

Use Case 1:	Select Role (User or Admin)
Description	When a user first accesses the system, they must select their role (User or Admin) before proceeding to register or log in.
Scenario 1:	**Mainline Sequence**
1.	User opens the system for the first time.
2.	System displays a prompt to select a role: **User** or **Admin**.

3.	User selects their role (e.g., User for students/teachers, Admin for administrators).
4.	System directs the user to the appropriate interface based on the selected role (e.g., registration/login for Users, login only for Admins).
Alternative Flow:	**At Step 3**
3.	If the user does not select a role, the system displays: *"Please select a role to proceed."*
Error Handling:	**At Step 4**
4.	If the system fails to redirect the user, it displays: *"Failed to load the selected role interface. Please try again later."*

Use Case 2: Register/Login (User Only)

Use Case 2:	Register/Login (User Only)
Description	Users (students/teachers) can register using their university email and log in to access the system. Admins do not need to register; they can log in directly.
Scenario 1:	**Mainline Sequence (Registration)**
1.	User selects the "Register" option.
2.	System prompts for university email, password, and other required details (e.g., name, profile picture).
3.	User enters the required information.
4.	System validates the email and password.
5.	System creates a new account and confirms successful registration.
Scenario 2:	**Mainline Sequence (Login)**
1.	User selects the "Login" option.
2.	System prompts for email and password.
3.	User enters their credentials.
4.	System verifies the credentials and grants access to the account.

Alternative Flow:	At Step 4 (Registration)
4.	If the email is already registered, the system displays: *"This email is already registered. Please log in or use a different email."*
Alternative Flow:	At Step 4 (Login)
4.	If the credentials are incorrect, the system displays: *"Invalid email or password. Please try again."*

Use Case 3: Admin Login Only

Use Case 3:	Admin Login Only
Description	Admins can log in directly without needing to register. They are pre-registered in the system and can access the admin dashboard after logging in.
Scenario 1:	Mainline Sequence
1.	Admin selects the "Login" option.
2.	System prompts for admin email and password.
3.	Admin enters their credentials.
4.	System verifies the credentials and grants access to the admin dashboard.
Alternative Flow:	At Step 4
4.	If the credentials are incorrect, the system displays: *"Invalid email or password. Please try again."*
Error Handling:	At Step 4
4.	If the system fails to log in the admin, it displays: *"Login failed. Please try again later."*

Use Case 4: Create/Edit/Delete Post

Use Case 4:	Create/Edit/Delete Post

Description	Users can create, edit, or delete posts. Posts can include text, images, videos, and documents.
Scenario 1:	**Mainline Sequence (Create Post)**
1.	User selects the "Create Post" option.
2.	User enters post content (e.g., text, images, videos, documents).
3.	User clicks "Post."
4.	System saves the post and displays it on the feed.
Scenario 2:	**Mainline Sequence (Edit Post)**
1.	User selects the "Edit" option on an existing post.
2.	User modifies the content (e.g., updates text).
3.	User clicks "Save."
4.	System updates the post with the new content.
Scenario 3:	**Mainline Sequence (Delete Post)**
1.	User selects the "Delete" option on an existing post.
2.	System prompts for confirmation.
3.	User confirms deletion.
4.	System removes the post permanently.
Alternative Flow:	**At Step 3 (Create Post)**
3.	If the post content is empty, the system displays: *"Post content cannot be empty."*
Alternative Flow:	**At Step 3 (Create Post)**
3.	If a file exceeds the allowed size, the system displays: *"File size too large. Please upload a smaller file."*

Use Case 5: Create Group Chat

Use Case 5:	Create Group Chat
Description	Users can create a group chat, add members, leave the group, edit the group profile, and admins can delete the group.
Scenario 1:	**Mainline Sequence (Create Group)**
1.	User navigates to the "Chat" section and selects "Create Group Chat."
2.	User enters a name for the group chat and selects members to add.
3.	System validates the selected members and creates the group chat.
4.	Members can now send and receive messages, images, videos, and documents in the group chat.
Scenario 2:	**Add Member**
1.	User (group admin or member with permission) selects the "Add Member" option in the group chat.
2.	User selects a new member to add from their contact list.
3.	System validates the new member and adds them to the group chat.
4.	The new member receives a notification and can now participate in the group chat.
Scenario 3:	**Leave Group**
1.	User selects the "Leave Group" option in the group chat.
2.	System prompts for confirmation.
3.	User confirms leaving the group.
4.	System removes the user from the group chat and notifies the remaining members.
Scenario 4:	**Edit Group Profile**
1.	User (group admin or member with permission) selects the "Edit Group Profile" option in the group chat.

2.	User updates the group name, profile picture, or other details.
3.	User clicks "Save" to update the group profile.
4.	System validates and saves the changes, and updates the group profile for all members.
Scenario 5:	**Delete Group (Admin Only)**
1.	Admin selects the "Delete Group" option in the group chat.
2.	System prompts for confirmation.
3.	Admin confirms deletion.
4.	System removes the group chat permanently and notifies all members.
Alternative Flow:	**At Step 3 (Create Group)**
3.	If the system fails to create the group chat, it displays: *"Failed to create group chat. Please try again later."*
Alternative Flow:	**At Step 3 (Add Member)**
3.	If the selected member is already in the group, the system displays: *"This member is already in the group."*
Alternative Flow:	**At Step 3 (Leave Group)**
3.	If the user is the last member in the group, the system deletes the group automatically.
Alternative Flow:	**At Step 3 (Edit Group Profile)**
3.	If the group name is empty, the system displays: *"Group name cannot be empty."*
Alternative Flow:	**At Step 3 (Delete Group)**
3.	If the admin cancels the deletion, the group remains in the system.
Error Handling:	**General Errors**
-	If any operation fails (e.g., due to network issues), the system displays: *"Failed to [action]. Please try again later."*

Use Case 6: Send/Receive Messages

Use Case 6:	Send/Receive Messages
Description	Users can send and receive direct messages, including text, images, videos, and documents.
Scenario 1:	Mainline Sequence
1.	User selects a recipient from their contact list or searches for a user.
2.	User composes a message (e.g., text, images, videos, documents) and clicks "Send."
3.	System delivers the message to the recipient and stores it in the chat history.
4.	Recipient receives a notification about the new message.
Alternative Flow:	At Step 2
2.	If a file exceeds the allowed size, the system displays: *"File size too large. Please upload a smaller file."*

Use Case 7: Interact with Post (Like/Comment/Reply)

Use Case 7:	Interact with Post (Like/Comment/Reply)
Description	Users can like posts, comment on posts, and reply to comments.
Scenario 1:	Mainline Sequence (Like Post)
1.	User clicks the "Like" button on a post.
2.	System increments the like count and records the user's like.
Scenario 2:	Mainline Sequence (Comment on Post)
1.	User clicks the "Comment" button on a post.
2.	User enters their comment and clicks "Submit."
3.	System adds the comment to the post and increments the comment count.
Scenario 3:	Mainline Sequence (Reply to Comment)

1.	User selects a comment and clicks the "Reply" button.
2.	User enters their reply and clicks "Submit."
3.	System adds the reply to the comment thread and increments the reply count.
Alternative Flow:	**At Step 2 (Comment/Reply)**
2.	If the comment or reply is empty, the system displays: *"Comment/Reply cannot be empty."*

Use Case 8: View Notifications

Use Case 8:	View Notifications
Description	Users can view notifications about new messages, comments, and post likes.
Scenario 1:	**Mainline Sequence**
1.	User clicks on the "Notifications" icon.
2.	System displays a list of recent notifications (e.g., new messages, comments, post likes).
3.	User can click on a notification to view the related content.
4.	System marks the notification as read.
Alternative Flow:	**At Step 2**
2.	If there are no new notifications, the system displays: *"No new notifications."*

Use Case 9: Manage Profile

Use Case 9:	Manage Profile
Description	Users can update their profile information, such as name and profile picture.
Scenario 1:	**Mainline Sequence**
1.	User navigates to the "Profile" section.

2.	User edits their profile information (e.g., name, profile picture).
3.	User clicks "Save" to update the profile.
4.	System validates and saves the changes.
Alternative Flow:	**At Step 3**
3.	If the profile picture exceeds the allowed size, the system displays: *"File size too large. Please upload a smaller image."*

Use Case 10: Save Media and Documents

Use Case 10:	**Save Media and Documents**
Description	Users can save images, videos, and documents shared in chats or posts to their local device or system folder.
Scenario 1:	**Mainline Sequence**
1.	User views a shared image, video, or document in a chat or post.
2.	User clicks the "Save" button next to the file.
3.	System prompts the user to choose a location to save the file (e.g., local device or system folder).
4.	File is saved to the selected location.
Alternative Flow:	**At Step 3**
3.	If the file cannot be saved (e.g., due to insufficient storage), the system displays: *"Failed to save file. Please check your storage and try again."*

Use Case 11: Delete Post (Admin)

Use Case 11:	**Delete Post (Admin)**
Description	Admins can delete posts that violate community guidelines.
Scenario 1:	**Mainline Sequence**

1.	Admin views a post and identifies it as violating community guidelines.
2.	Admin selects the "Delete Post" option.
3.	System prompts for confirmation.
4.	Admin confirms deletion.
5.	System removes the post and notifies the author.
Alternative Flow:	**At Step 3**
3.	If the admin cancels the deletion, the post remains in the system.