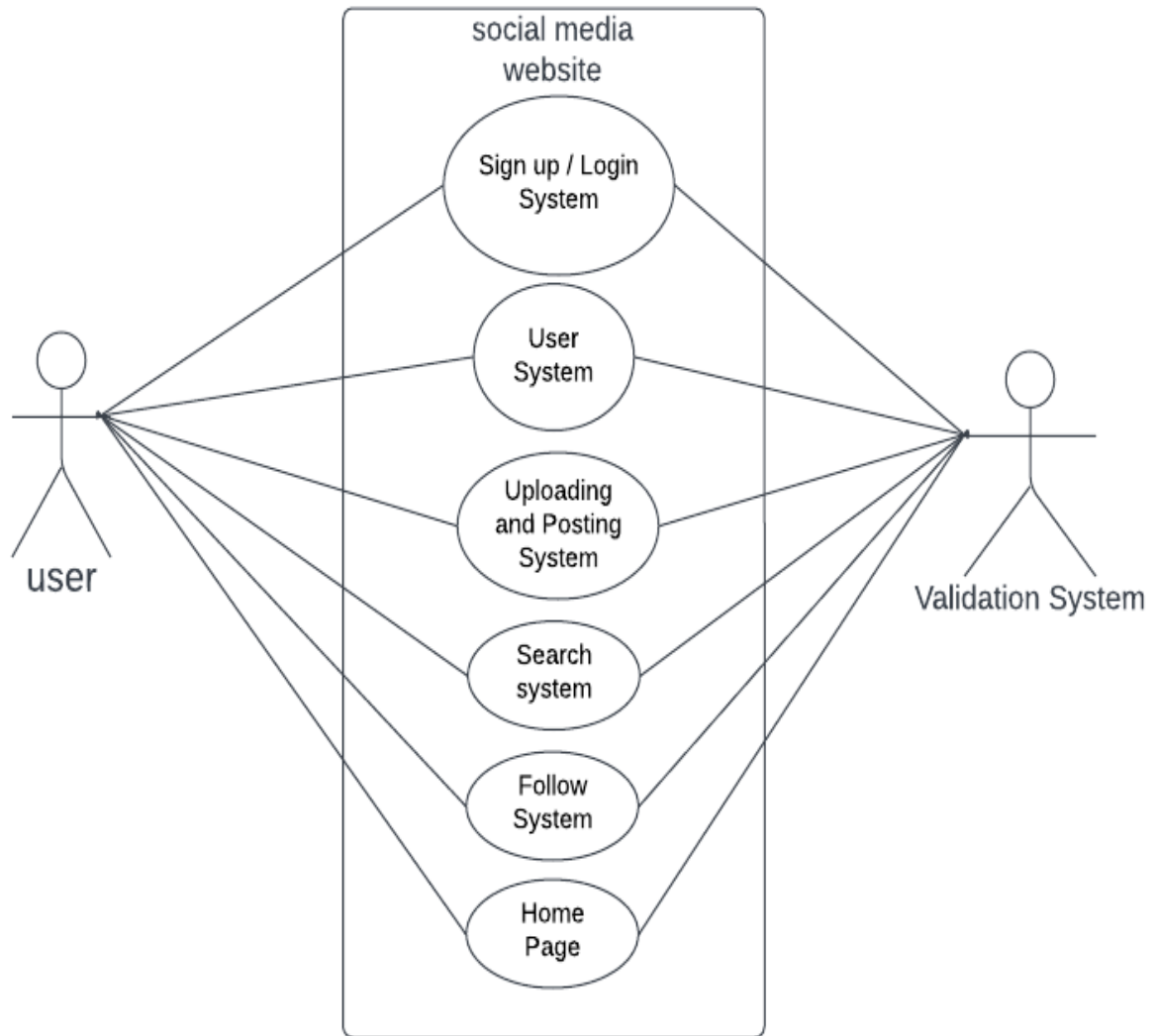


- **The main Use Case for the social media website :**



# 1- Sign up / Login System :

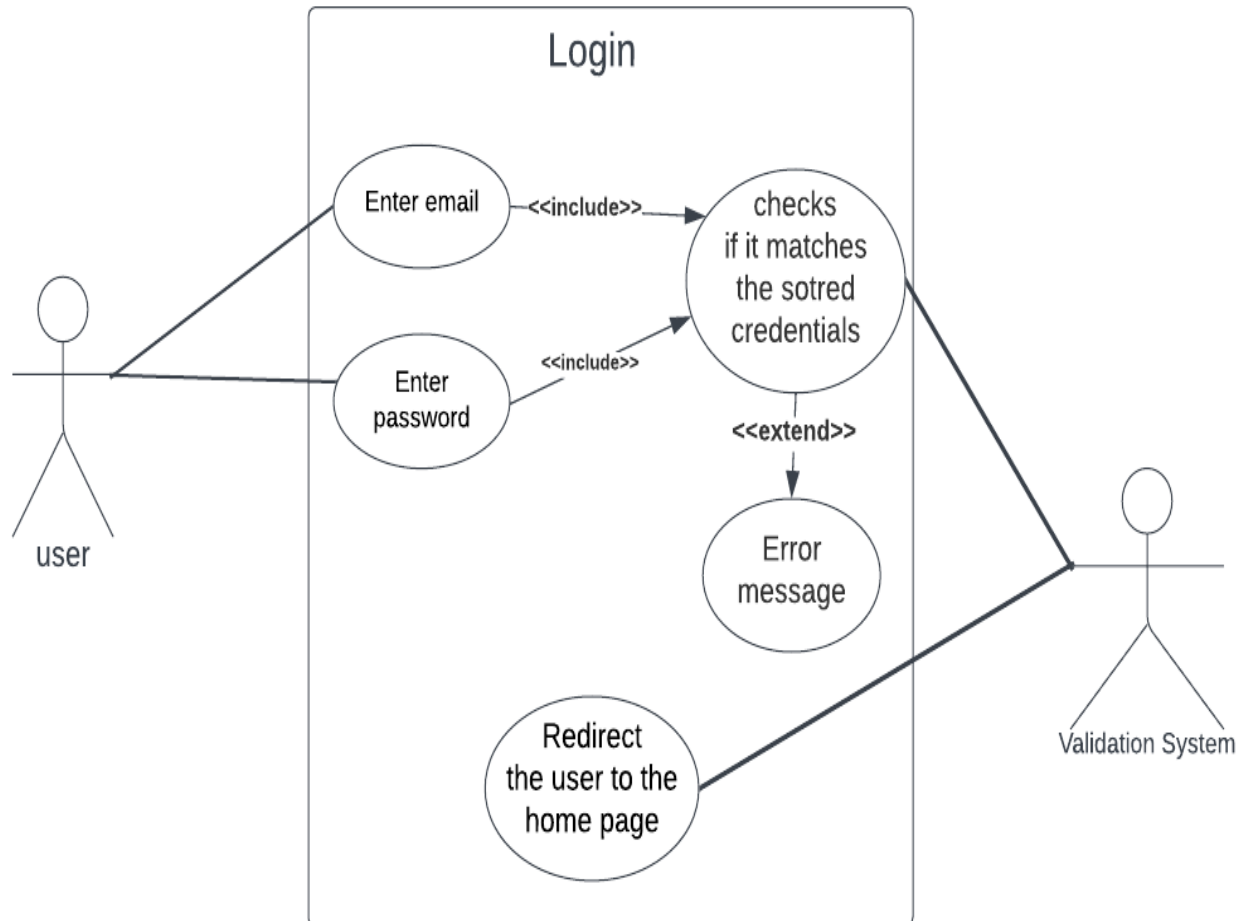
- Use case 1 :Sign Up Use Case :



- **Use Case Description :**

Use case/Actors	Sign up / User - Validation System
Goal	Create a new account and access the website
Pre condition	<ol style="list-style-type: none"><li>1. The user is not already registered with the website.</li><li>2. The user has a valid email address, username, and password.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The user has a new account with the website.</li><li>2. The user is authenticated and logged in to the website.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● The user navigates to the sign-up page.</li><li>● The user enters their email address, username, password, and confirms the password.</li><li>● The system validates the user's input:</li><li>● Checks if the email address is valid format.</li><li>● Checks if the username is already in use.</li><li>● Checks if the password meets the criteria (less than 6 characters and does not include upper-case letters and numbers and does not match the username).</li><li>● Checks if the two passwords match.</li><li>● If the input is valid, the system:</li><li>● Creates a new user account.</li><li>● Stores the user's information in the database.</li><li>● Redirects the user to the home page.</li><li>● If the input is invalid, the system displays an error message indicating the specific error.</li></ul>

- **Use case 2 :Login Use Case :**

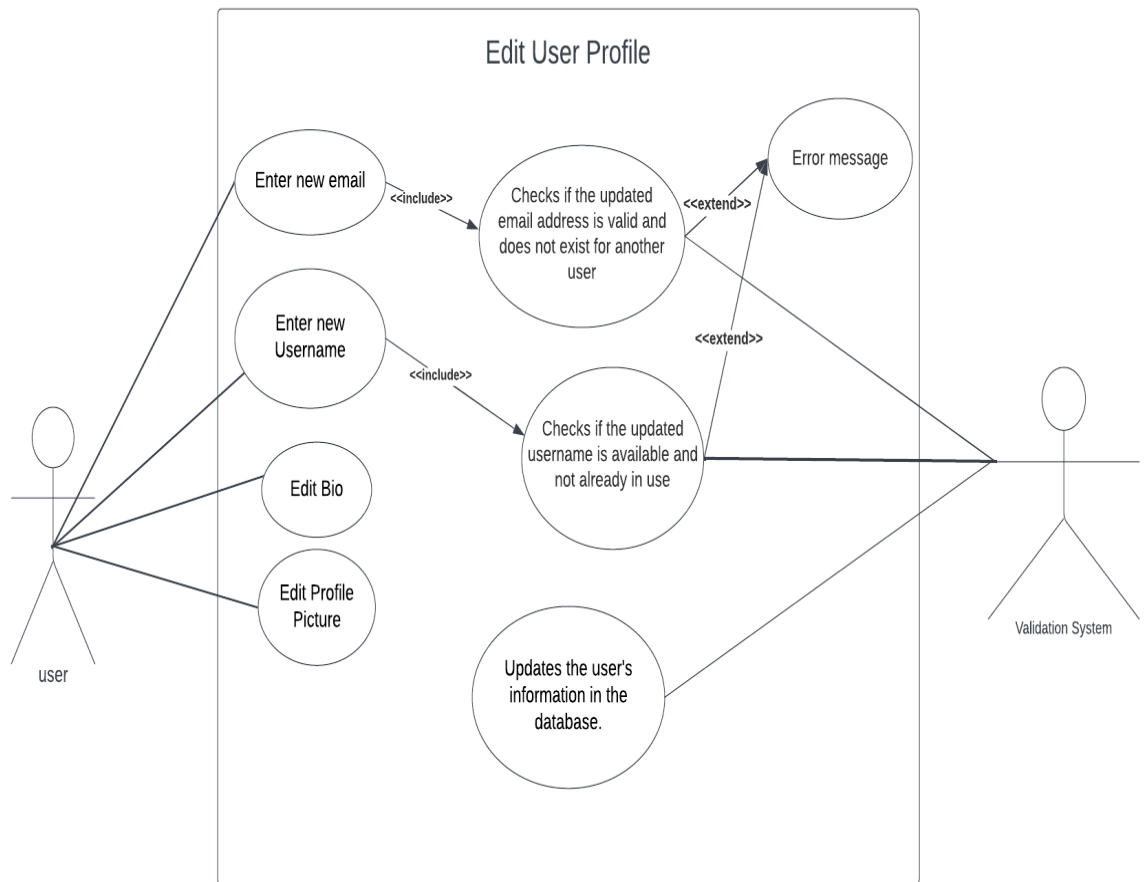


- **Use Case Description :**

Use case/Actors	Login / User - Validation System
Goal	Access the website using their existing account
Pre condition	<ol style="list-style-type: none"><li>1. The user has an existing account with the website.</li><li>2. The user knows their email address or username and password.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The user is authenticated and logged in to the website.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● The user navigates to the login page.</li><li>● The user enters their email address or username and password.</li><li>● The system validates the user's credentials.</li><li>● If the credentials are valid, the system:<ul style="list-style-type: none"><li>● Redirects the user to the home page.</li><li>● Sets a session cookie to authenticate the user.</li></ul></li><li>● If the credentials are invalid, the system displays an error message indicating the credentials are incorrect.</li></ul>

## 2- User System :

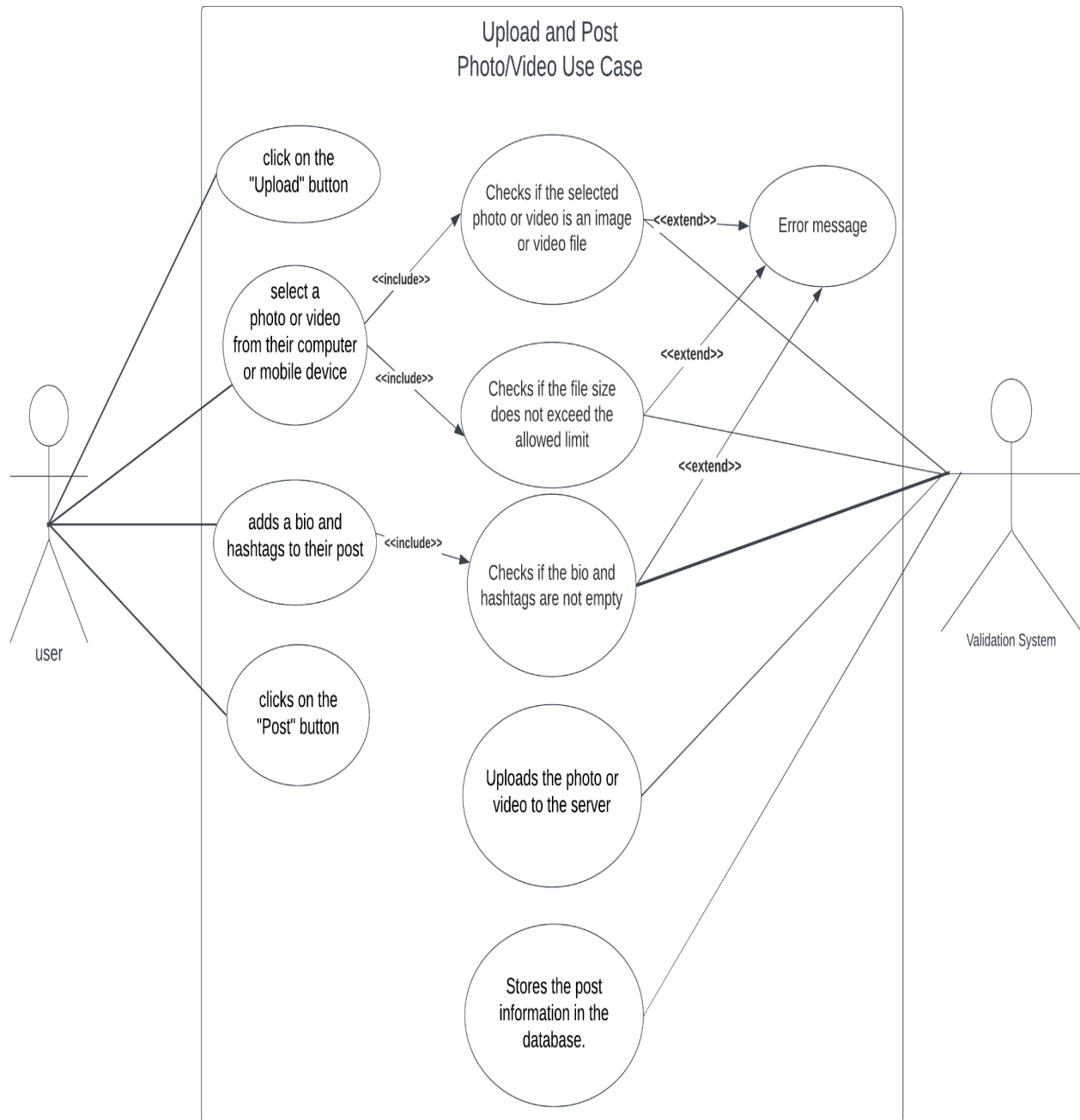
- Edit Profile Use case :



- **Use Case Description :**

Use case/Actors	Edit User Profile / User - Validation System
Goal	Modify their personal information in their profile
Pre condition	<ol style="list-style-type: none"><li>1. The user is logged in to the website.</li><li>2. The user has access to their profile page.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The user's profile information is updated in the database.</li><li>2. The user's profile page reflects the updated information.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● The user navigates to their profile page and clicks on the "Edit Profile" button.</li><li>● The user edits their desired information (email, username, bio, profile picture).</li><li>● The user clicks on the "Update" button.</li><li>● The system validates the user's changes:</li><li>● Checks if the updated email address is valid and does not exist for another user.</li><li>● Checks if the updated username is available and not already in use.</li><li>● If the changes are valid, the system:</li><li>● Updates the user's information in the database.</li><li>● If the changes are invalid, the system:</li><li>● Displays an error message indicating the specific error(s).</li></ul>

- **3- Uploading and Posting System :**
- **Use case 1 :Upload and Post Photo/Video :**

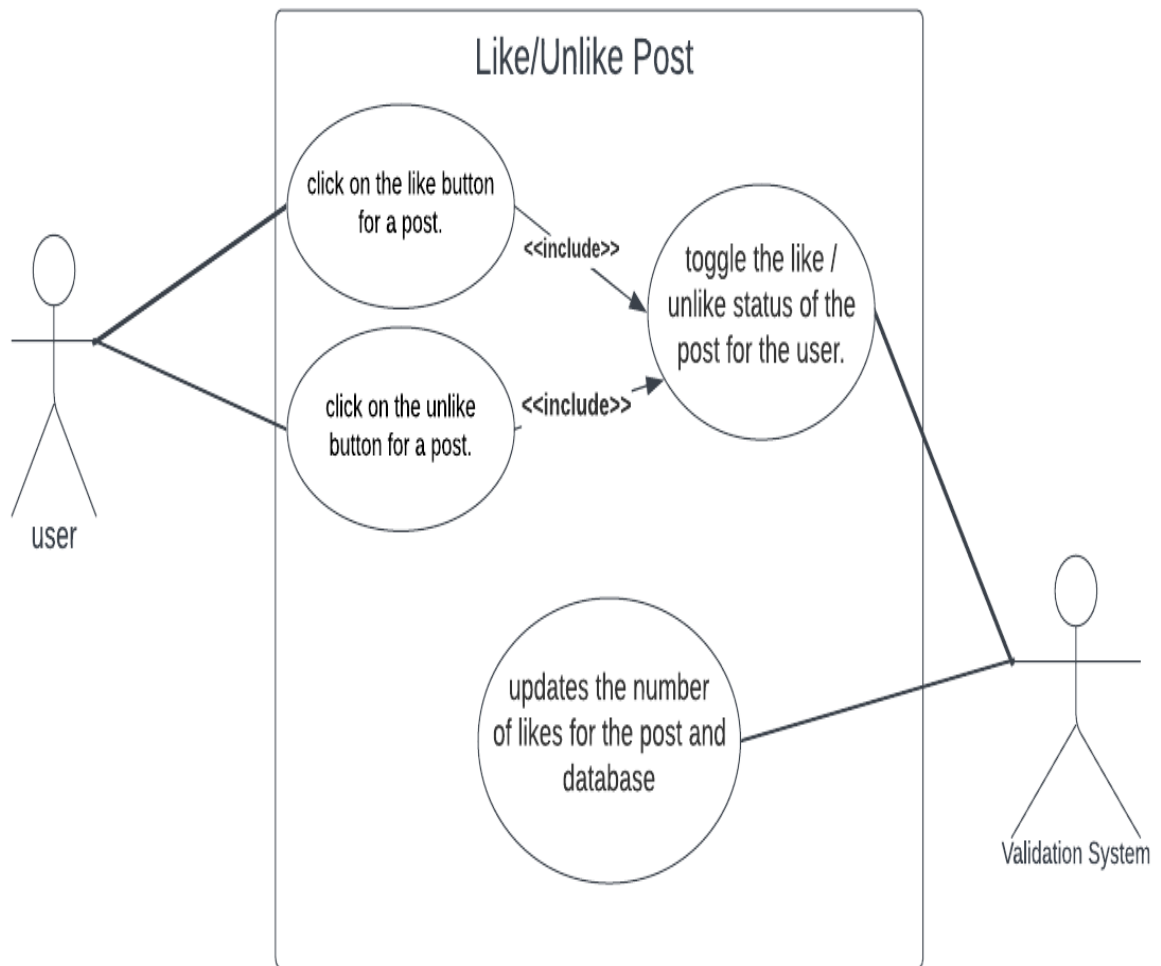




● **Use Case Description :**

Use case/Actors	Upload and Post Photos and Videos / User - Validation System
Goal	Share media content (photos, videos) with other users
Pre condition	<ol style="list-style-type: none"> <li>1. The user is logged in to the website.</li> <li>2. The user has access to the Upload page.</li> </ol>
Post condition	<ol style="list-style-type: none"> <li>1. The user's photo or video is uploaded to the server.</li> <li>2. The post information is stored in the database.</li> <li>3. The post is displayed on the user's profile page or the main feed.</li> </ol>
Basic Flow	<ul style="list-style-type: none"> <li>● The user navigates to the Upload page and clicks on the "Upload" button.</li> <li>● The user selects a photo or video from their computer or mobile device.</li> <li>● The user adds a bio and hashtags to their post.</li> <li>● The user clicks on the "Post" button.</li> <li>● The system validates the user's input:</li> <li>● Checks if the selected photo or video is an image or video file.</li> <li>● Checks if the file size does not exceed the allowed limit.</li> <li>● Checks if the bio and hashtags are not empty.</li> <li>● If the input is valid, the system:</li> <li>● Uploads the photo or video to the server.</li> <li>● Stores the post information (photo/video URL, bio, hashtags, user ID) in the database.</li> <li>● If the input is invalid, the system:</li> <li>● Displays an error message indicating the specific error(s).</li> </ul>

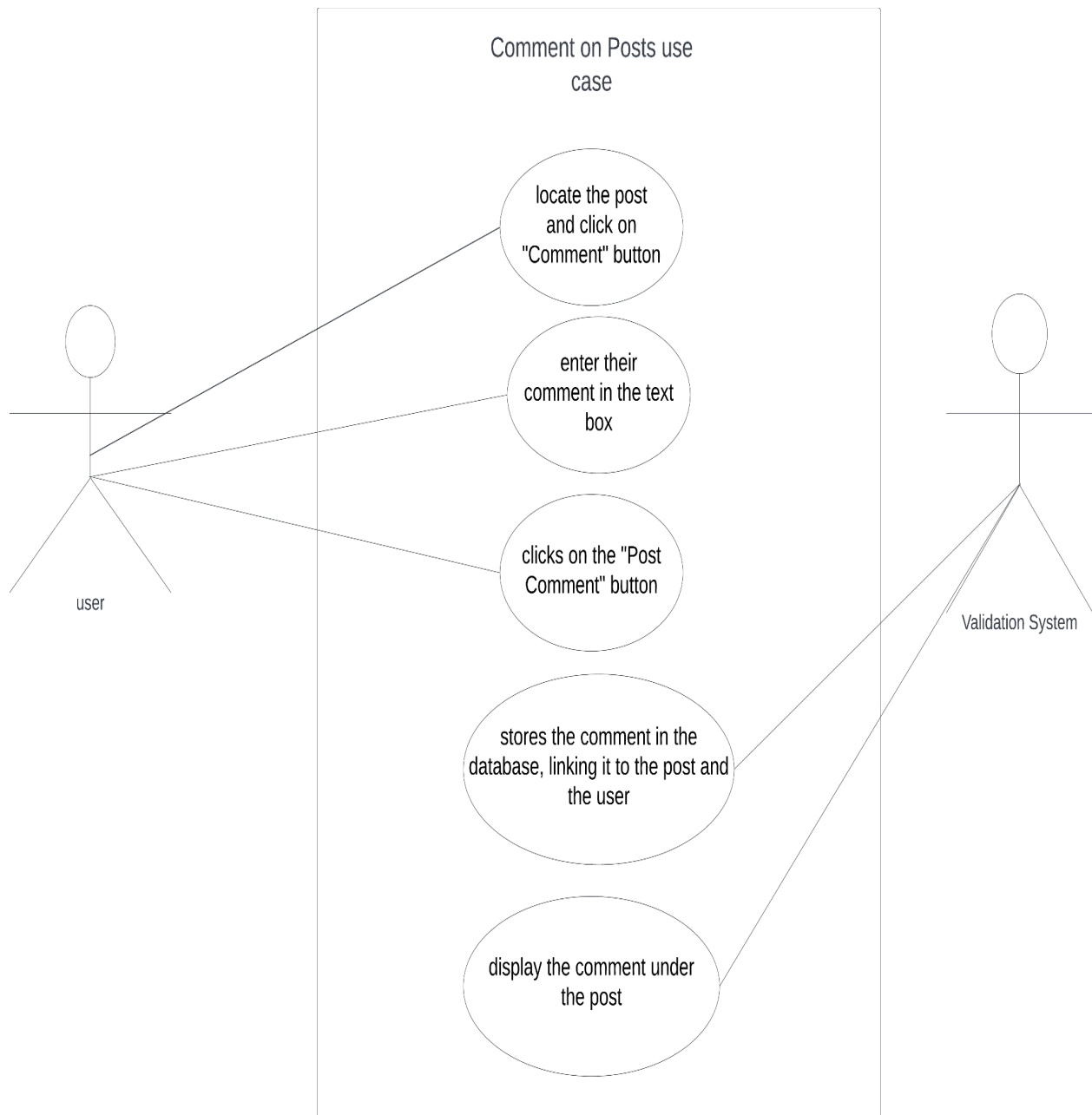
- Use case 2 :Like/Unlike Post :



- **Use Case Description :**

Use case/Actors	Like/Unlike Posts / User - Validation System
Goal	Express appreciation or disapproval of a post
Pre condition	<ol style="list-style-type: none"><li>1. The user is logged in to the website.</li><li>2. The user has access to the main feed or another user's profile page.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The like count for the post is updated.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● The user locates the post they want to like or unlike.</li><li>● The user clicks on the "Like" or "Unlike" button.</li><li>● The system updates the like count for the post.</li></ul>

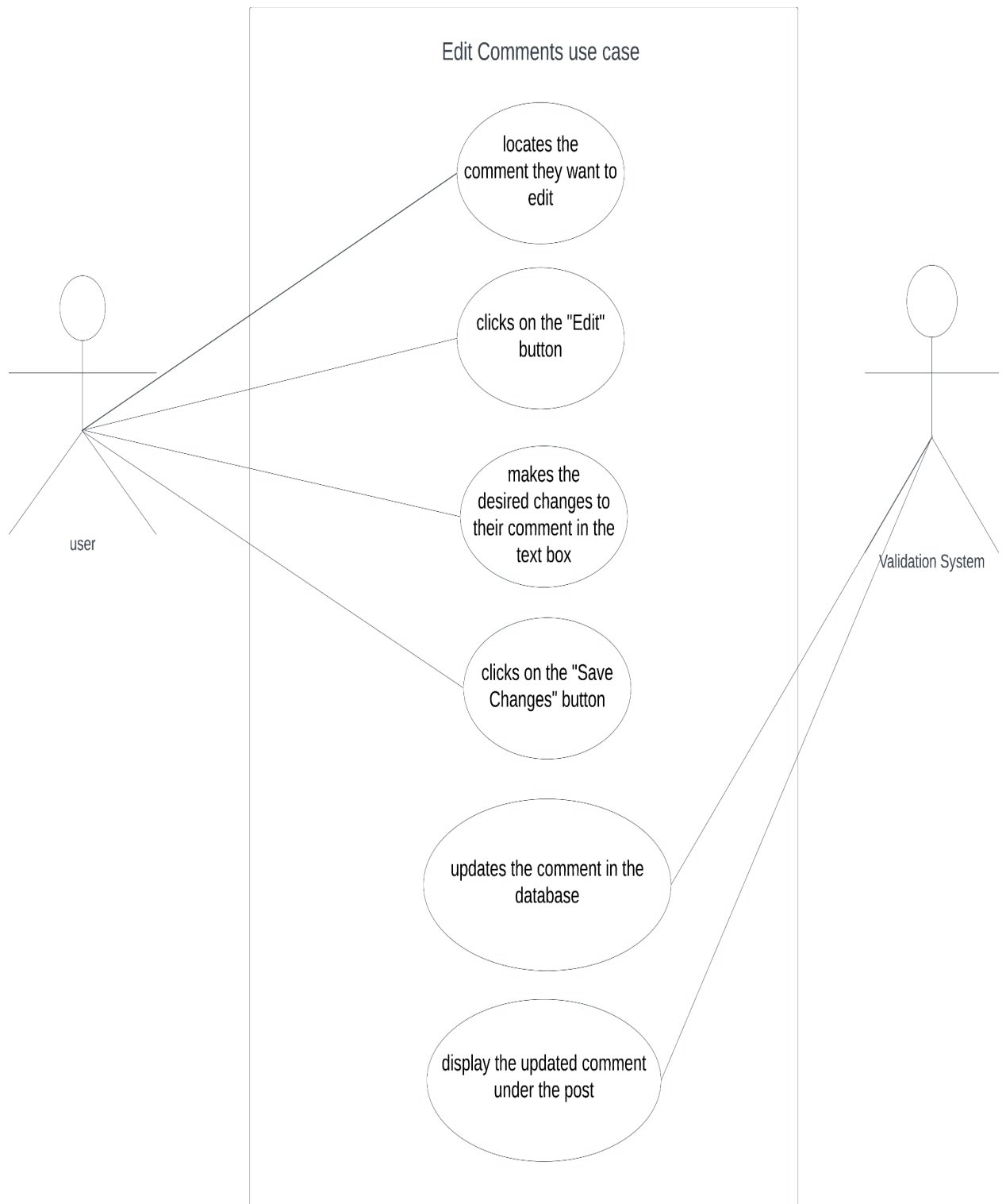
- **Use case 3 : Comment on Posts**



- **Use Case Description :**

Use case/Actors	Comments on Posts / User - Validation System
Goal	Add thoughts or opinions to a post
Pre condition	<ol style="list-style-type: none"><li>1. The user is logged in to the website.</li><li>2. The user has access to the main feed or another user's profile page.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The user's comment is stored in the database.</li><li>2. The comment is displayed under the post.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● The user locates the post they want to comment on.</li><li>● The user clicks on the "Comment" button.</li><li>● The user enters their comment in the text box.</li><li>● The user clicks on the "Post Comment" button.</li><li>● The system stores the comment in the database, linking it to the post and the user.</li><li>● The comment is displayed under the post.</li></ul>

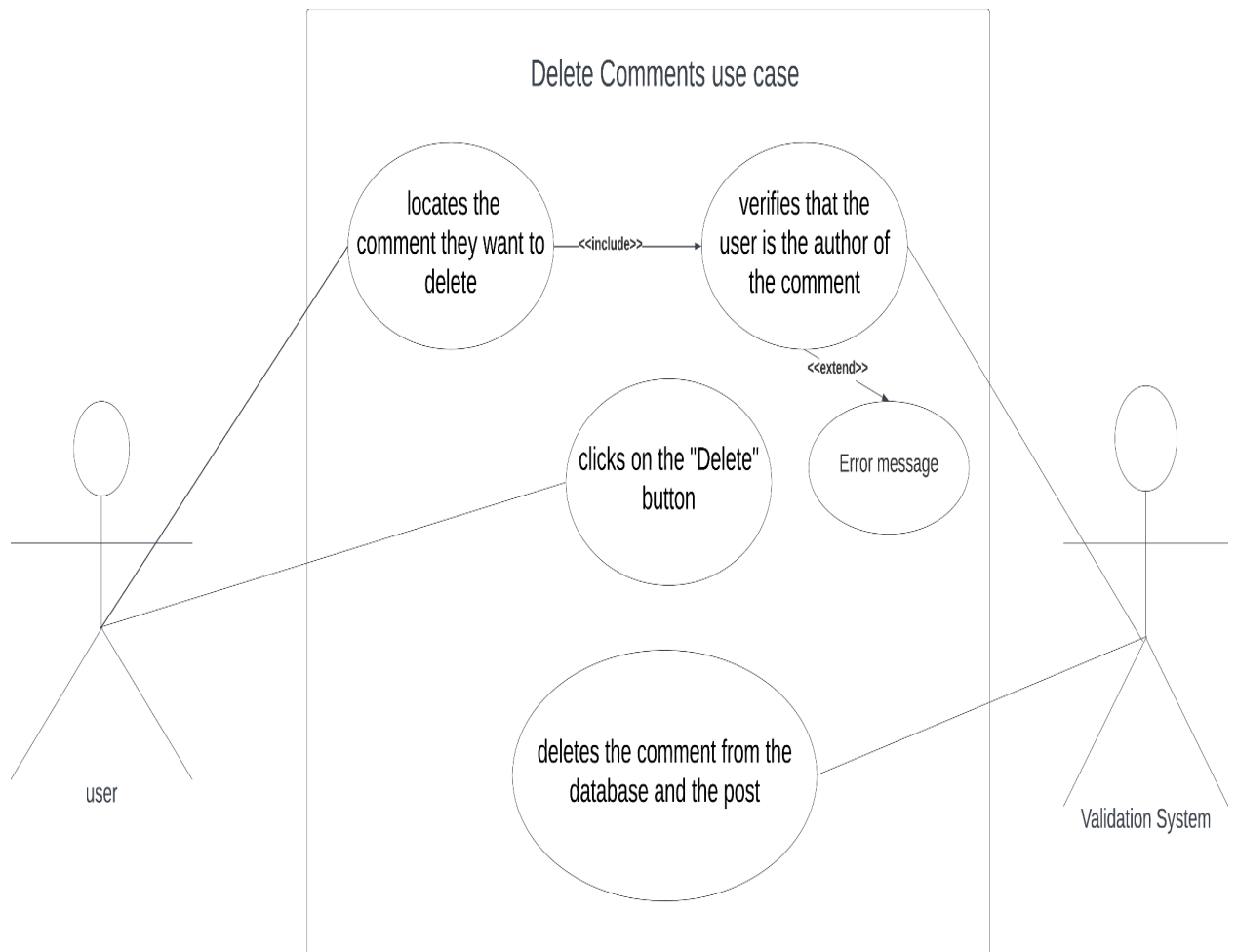
- **Use case 4 : Edit Comments**



● **Use Case Description :**

Use case/Actors	Edit Comments / User - Validation System
Goal	Modify a previously posted comment
Pre condition	<ol style="list-style-type: none"><li>1. The user is logged in to the website.</li><li>2. The user has access to the main feed or their profile page.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The user's updated comment is stored in the database.</li><li>2. The updated comment is displayed under the post.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● The user locates the comment they want to edit.</li><li>● The user clicks on the "Edit" button.</li><li>● The user makes the desired changes to their comment in the text box.</li><li>● The user clicks on the "Save Changes" button.</li><li>● The system updates the comment in the database.</li><li>● The updated comment is displayed under the post.</li></ul>

- **Use case 5 : Delete Comments**





- **Use Case Description :**

Use case/Actors	Delete Comments / User - Validation System
Goal	Remove a previously posted comment
Pre condition	<ol style="list-style-type: none"><li>1. The user is logged in to the website.</li><li>2. The user has access to the main feed or their profile page.</li><li>3. The user has created the comment they want to delete.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The user's comment is removed from the database.</li><li>2. The comment is removed from the post.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● The user locates the comment they want to delete.</li><li>● The user clicks on the "Delete" button.</li><li>● The system verifies that the user is the author of the comment.</li><li>● If the user is the author, the system deletes the comment from the database.</li><li>● The comment is removed from the post.</li></ul>

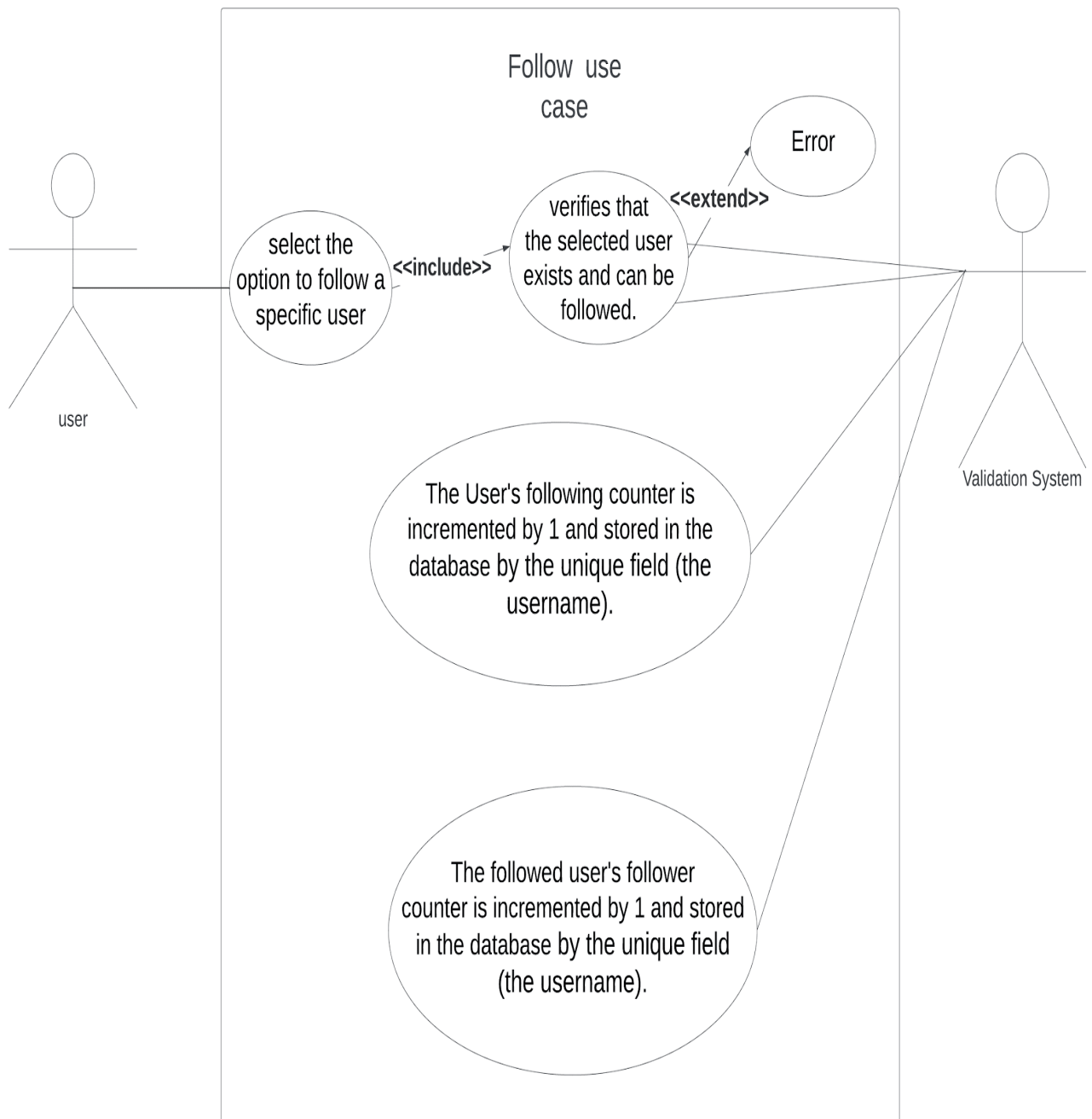
- **4- Search System :**
- **Search Use case :**



- **Use Case Description :**

Use case/Actors	Search / User - Validation System
Goal	Allow users to search for a hashtag or a user.
Pre condition	<ol style="list-style-type: none"><li>1. The User is logged in to the system.</li><li>2. The Search System is accessible and functional.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. Search results are displayed to the User.</li><li>2. If the search query does not match any posts as a hashtag or any user's username, a warning message is shown to the User.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● User enters a search query in the search bar.</li><li>● User submits the search query.</li><li>● Validation System processes the search query and retrieves relevant results.</li><li>● If search results are found, they are displayed to the User.</li><li>● If no search results are found:<ol style="list-style-type: none"><li>a. A warning message is shown to the User indicating that the search query did not yield any results.</li></ol></li></ul>

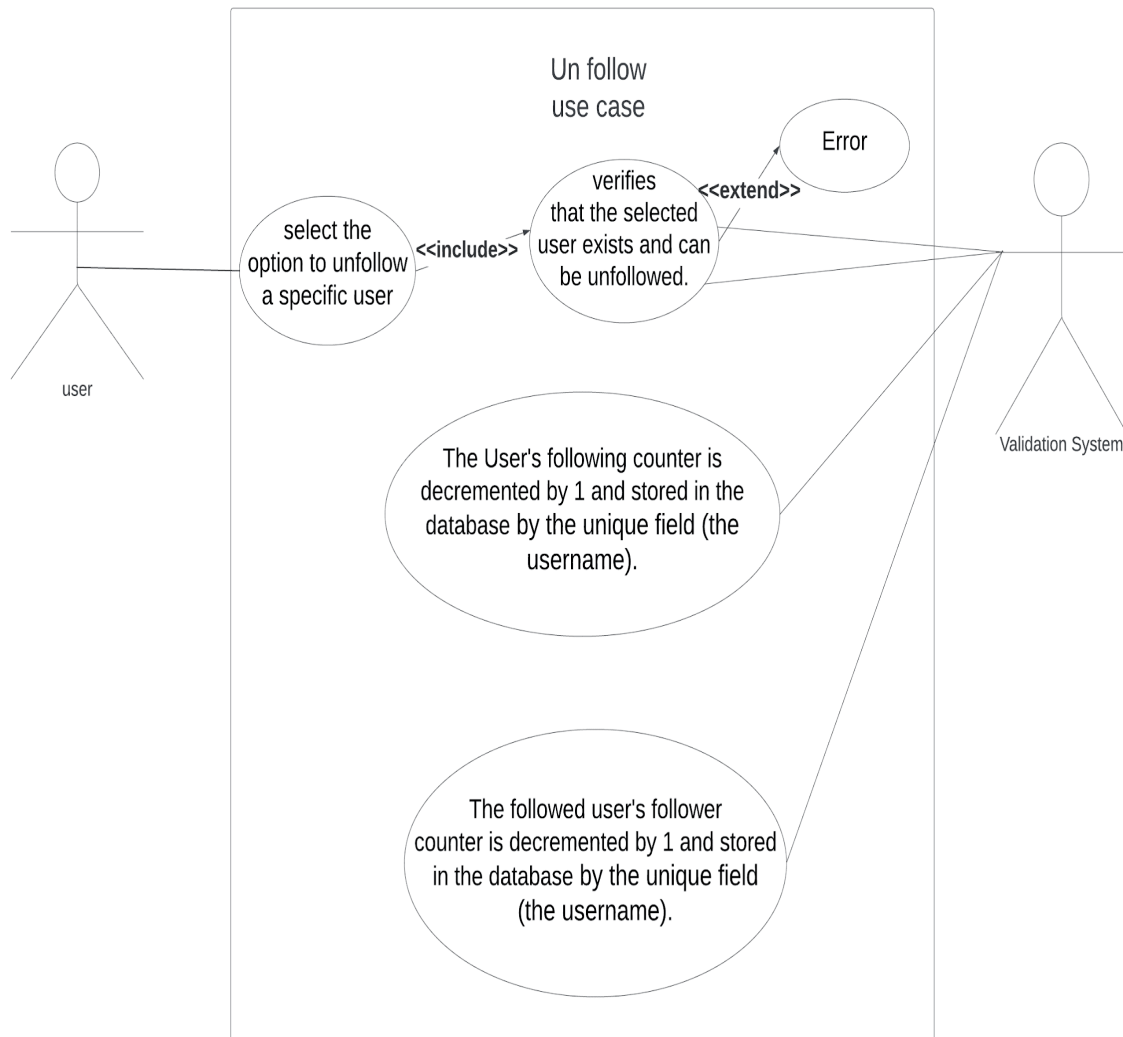
- **5- Follow System :**
- **Use case 1 :Follow use case :**



- **Use Case Description :**

Use case/Actors	Follow / User - Validation System
Goal	Allow users to follow other users
Pre condition	<ol style="list-style-type: none"><li>1. The User is logged in to the system.</li><li>2. The Follow System is accessible and functional.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The User's following counter is updated upon following.</li><li>2. The followed user's follower counter is updated upon being followed.</li><li>3. The relationship between the follower and followed users is stored in the database.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● User selects the option to follow a specific user.</li><li>● Validation System verifies that the selected user exists and can be followed.</li><li>● If the selected user can be followed:<ol style="list-style-type: none"><li>● a. The User's following counter is incremented by 1.</li><li>● b. The followed user's follower counter is incremented by 1.</li><li>● c. The relationship between the User and the followed user is stored in the database.</li></ol></li></ul>

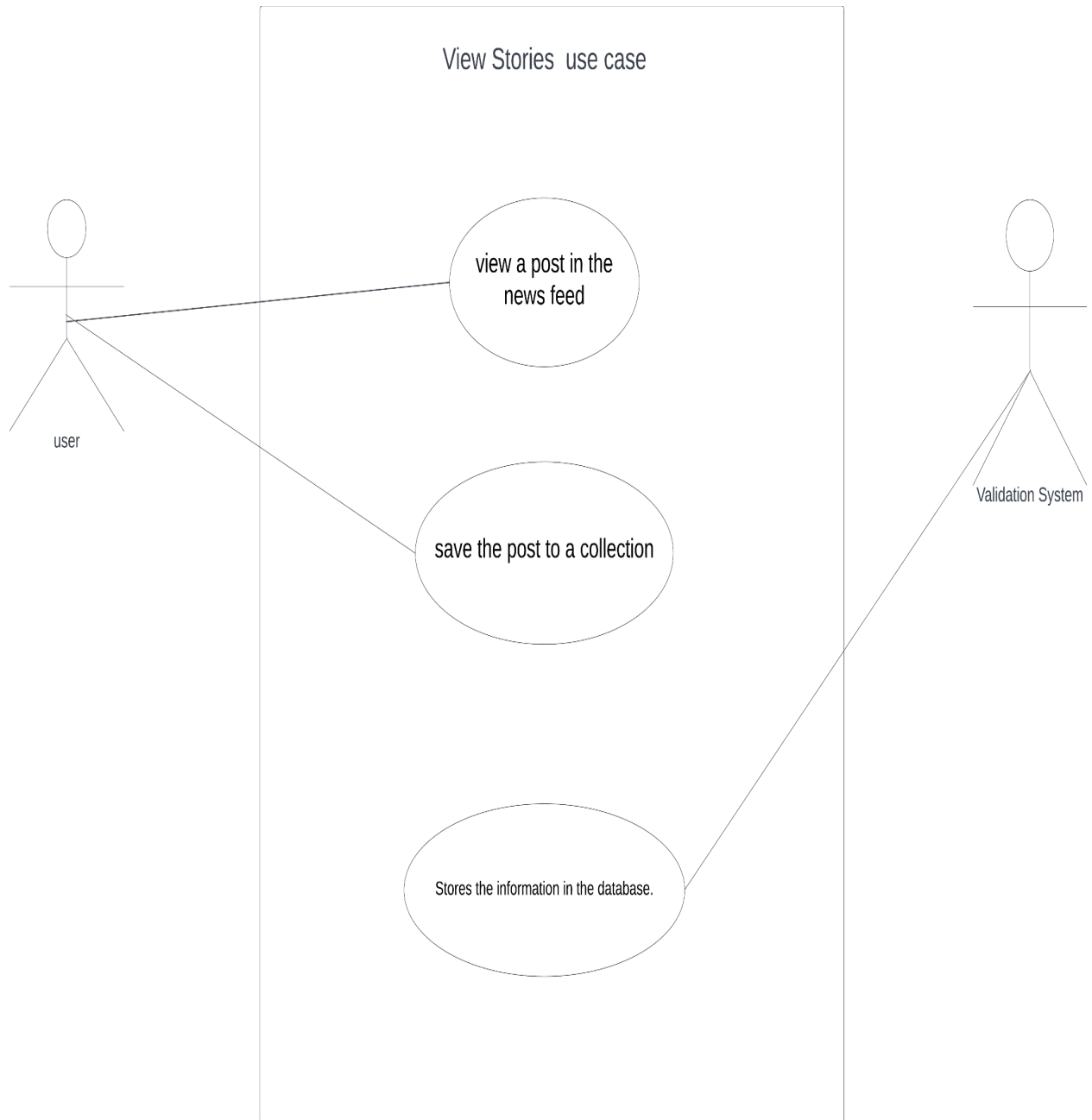
- Use case 2 :UnFollow use case :



- **Use Case Description :**

Use case/Actors	UnFollow / User - Validation System
Goal	Allow users to unfollow other users
Pre condition	<ol style="list-style-type: none"><li>1. The User is logged in to the system.</li><li>2. The Follow System is accessible and functional.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The User's following counter is updated upon unfollowing.</li><li>2. The followed user's follower counter is updated upon being unfollowed.</li><li>3. The relationship between the follower and followed users is stored in the database.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● User selects the option to unfollow a specific user.</li><li>● Validation System verifies that the selected user exists and can be unfollowed.</li><li>● If the selected user can be unfollowed:<ol style="list-style-type: none"><li>a. The User's following counter is decremented by 1.</li><li>b. The followed user's follower counter is decremented by 1.</li><li>c. The relationship between the User and the followed user is removed from the database.</li></ol></li></ul>

- **5- Home Page System :**
- **Use case 1 :View News Feed use case :**

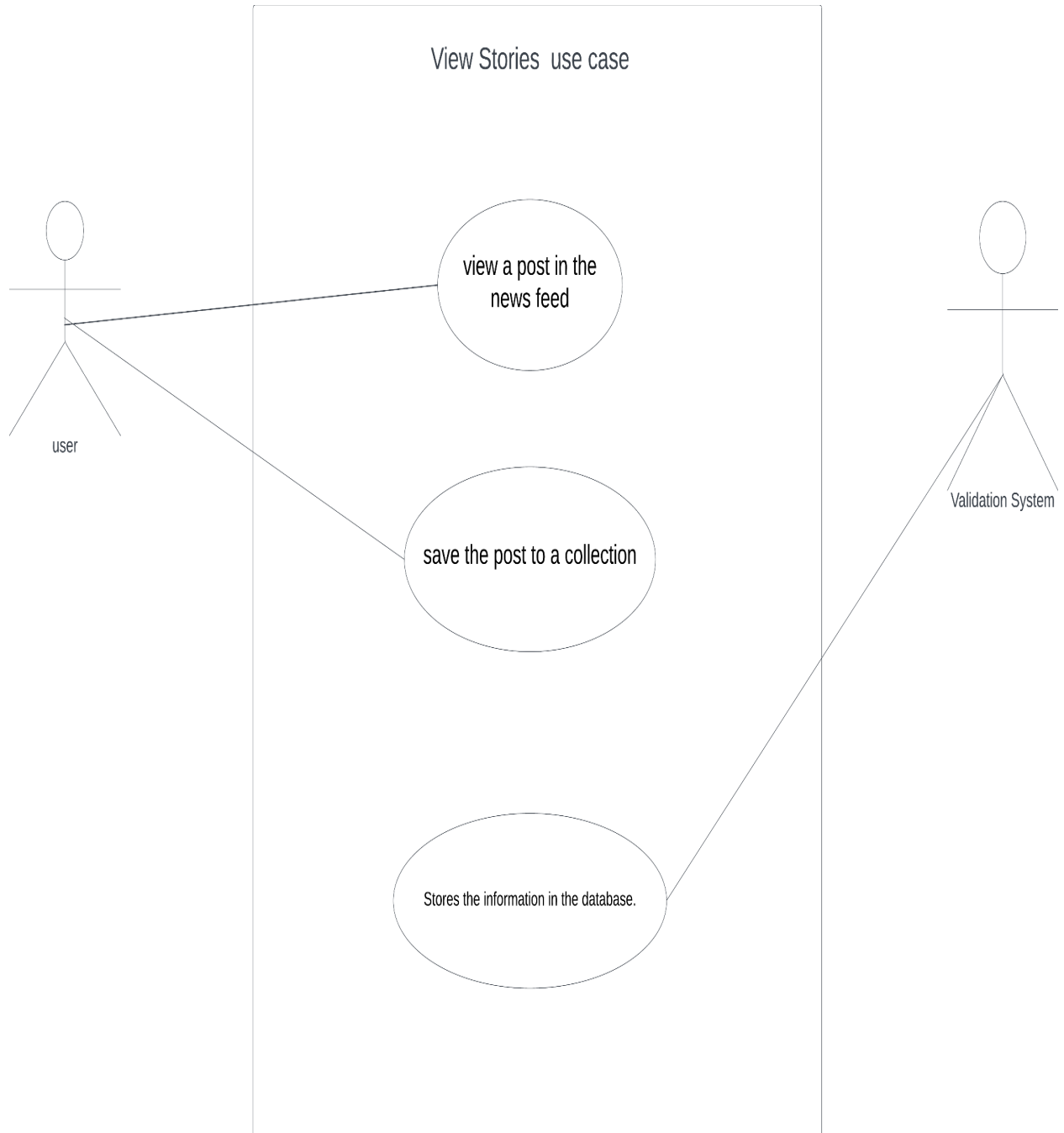




- **Use Case Description :**

Use case/Actors	View News Feed / User - Validation System
Goal	Allow users to view their news feed consisting of posts from the users they follow.
Pre condition	<ol style="list-style-type: none"><li>1. The User is logged in to the system.</li><li>2. The Home Page is accessible and functional.</li><li>3. The User follows other users.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. The User can view their news feed with posts from the users they follow.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● User accesses the Home Page.</li><li>● System retrieves and displays posts from the users the User follows in their news feed.</li><li>● User scrolls through the news feed and views the posts.</li></ul>

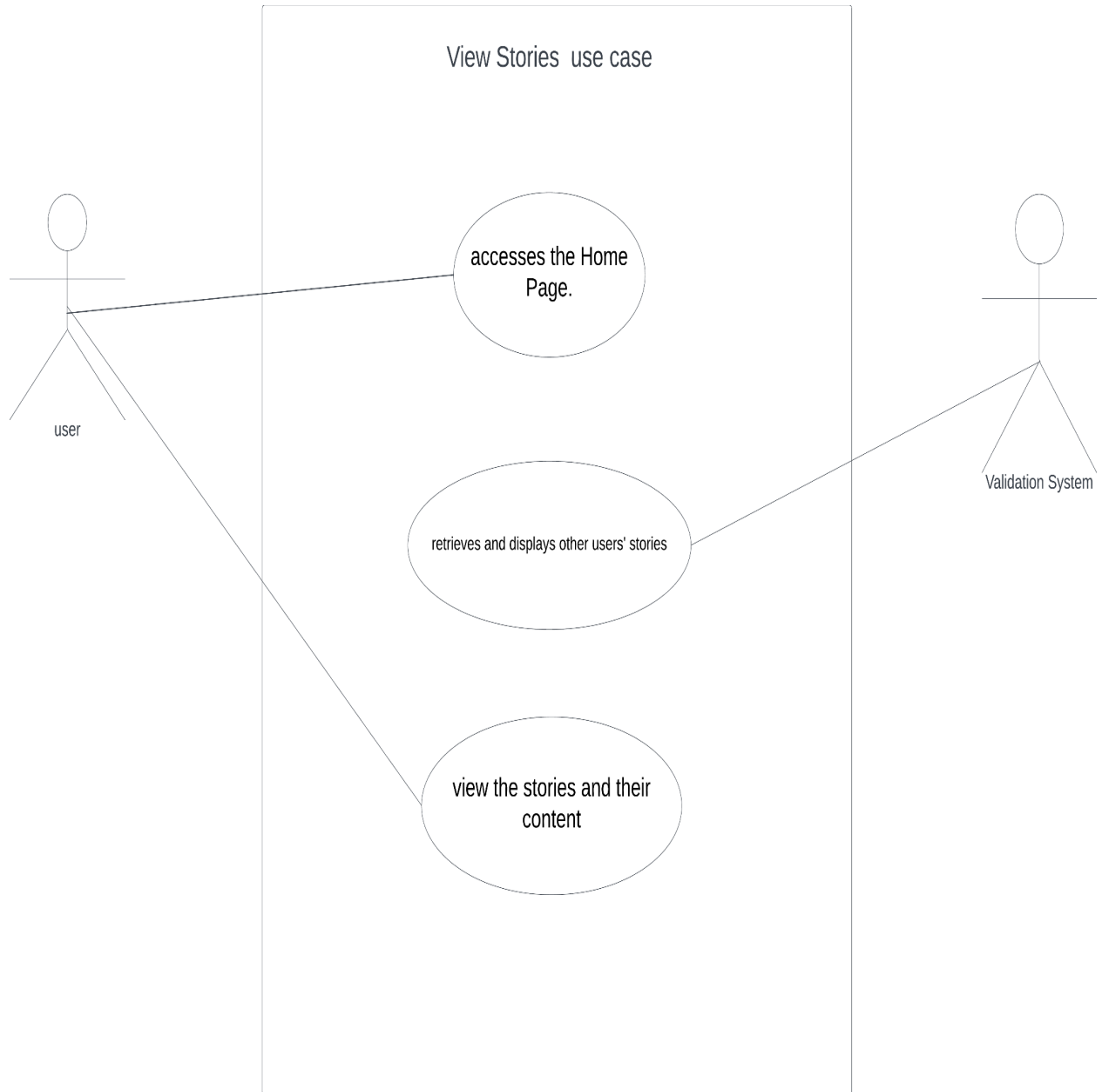
## ● Use case 2 : Save Posts use case



- **Use Case Description :**

Use case/Actors	Save Posts / User - Validation System
Goal	Allow users to save posts to a collection.
Pre condition	<ol style="list-style-type: none"><li>1. The User is logged in to the system.</li><li>2. The Home Page is accessible and functional.</li><li>3. The User's news feed has posts.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. User can save the post to a collection.</li><li>2. Validation system stores the information to the database.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● User views a post in their news feed.</li><li>● User can save the post to a collection.</li><li>● Validation system stores the information to the database.</li></ul>

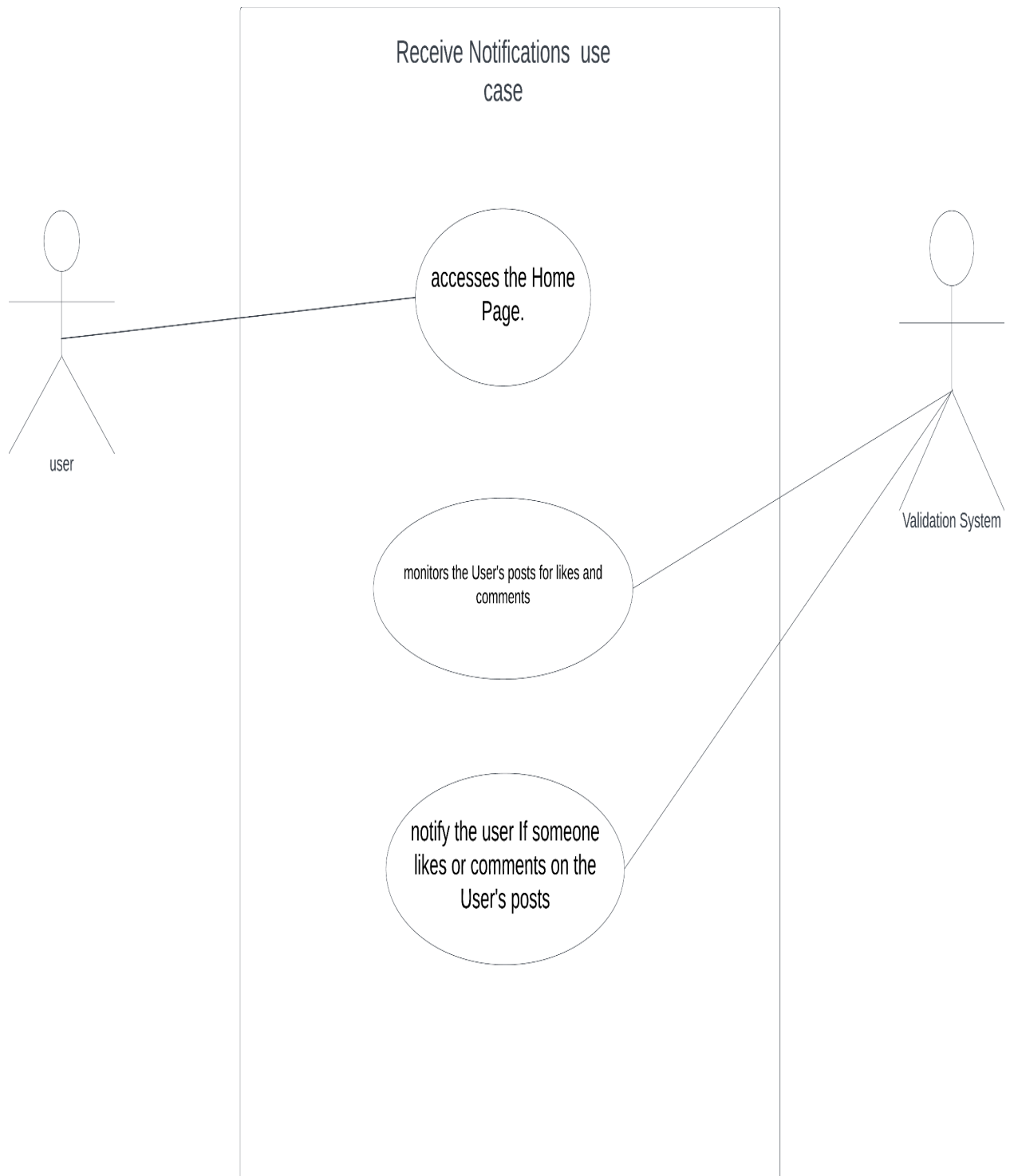
### ● Use case 3 : View Stories use case



- **Use Case Description :**

Use case/Actors	View Stories / User - Validation System
Goal	Allow users to view other users' stories.
Pre condition	<ol style="list-style-type: none"><li>1. The User is logged in to the system.</li><li>2. The Home Page is accessible and functional.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. User can view the stories and their content.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● User accesses the Home Page.</li><li>● System retrieves and displays other users' stories.</li><li>● User can view the stories and their content.</li></ul>

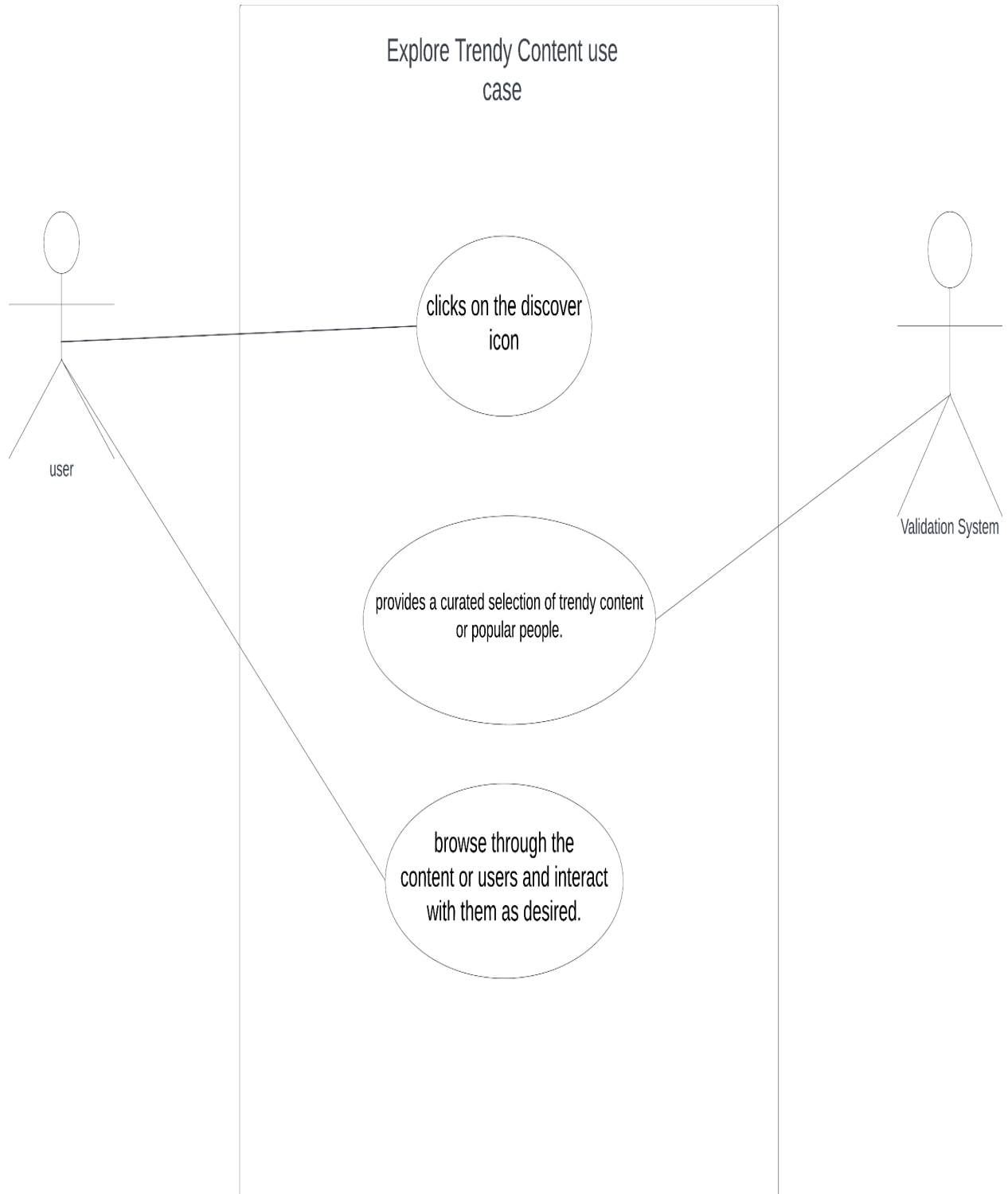
# ● Use case 4 : Receive Notifications use case



- **Use Case Description :**

Use case/Actors	Receive Notifications/ User - Validation System
Goal	Notify users when someone likes/comments on their posts.
Pre condition	<ol style="list-style-type: none"><li>1. The User is logged in to the system.</li><li>2. The Home Page is accessible and functional.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. User notified If someone likes or comments on the User's posts .</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● User accesses the Home Page.</li><li>● System monitors the User's posts for likes and comments.</li><li>● If someone likes or comments on the User's posts, a notification is generated and displayed to the User.</li></ul>

- **Use case 5 : Explore Trendy Content use case**





- **Use Case Description :**

Use case/Actors	Explore Trendy Content/ User - Validation System
Goal	Allow users to explore trendy content or popular people.
Pre condition	<ol style="list-style-type: none"><li>1. The User is logged in to the system.</li><li>2. The Home Page is accessible and functional.</li></ol>
Post condition	<ol style="list-style-type: none"><li>1. User can browse through the content or users and interact with them as desired.</li></ol>
Basic Flow	<ul style="list-style-type: none"><li>● User clicks on the discover icon.</li><li>● System provides a curated selection of trendy content or popular people.</li><li>● User can browse through the content or users and interact with them as desired.</li></ul>