

Building a social network IRCN V

Software Requirements Specification

Version 2.0



FPT UNIVERSITY

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I. Record of changes

Date	A* M, D	In charge	Change Description
08-05-2023	A*	Nguyen Hong Linh	Drawing a general Use Case diagram and assigning tasks.
08-05-2023	A*	Nguyen Anh Viet, Nguyen Hong Linh, Nguyen Ho Ngoc an, Nguyen Duy Khanh, Nguyen Cong Thinh	Describing the structure of the report and outlining some functionalities for Guest, User, Admin, Master Admin
10-05-2023	A*	Nguyen Anh Viet, Nguyen Hong Linh,	Designing mockups for the Admin, Master Admin
10-05-2023	A*	Nguyen Ho Ngoc an, Nguyen Duy Khanh, Nguyen Cong Thinh	Designing mockups for the Guest, User
13-05-2023	M	Nguyen Ho Ngoc an, Nguyen Duy Khanh, Nguyen Cong Thinh	Editing and refining the mockups.
14-05-2023	M	Nguyen Anh Viet, Nguyen Hong Linh,	Finalizing the report.
15-05-2023	A*	Nguyen Ho Ngoc an, Nguyen Duy Khanh, Nguyen Cong Thinh	Designing mockups for business features of users.
03-07-2023	D	Nguyen Hong Linh	Deleted UseCase: UC-16, UC-18, UC-19, UC-25
03-07-2023	M	Nguyen Hong Linh	Revise the use case diagram
06-07-2023	A*	Nguyen Ho Ngoc an, Nguyen Anh Viet,	Add UseCase UC-35,UC-36,UC-37,UC-38,UC-39
07-07-2023	A*	Nguyen Hong Linh,	Add UseCase UC-40,UC-41,UC-42,UC-43,UC-44,UC-45
09-07-2023	A*	Nguyen Anh Viet, Nguyen Hong Linh, Nguyen Ho Ngoc an, Nguyen Duy Khanh, Nguyen Cong Thinh	Designing mockups for Report
09-07-2023	M	Nguyen Hong Linh	Modified Actor of UseCase

*A - Added M - Modified D - Deleted

II. Software Requirement Specification Introduction

1. Product Overview

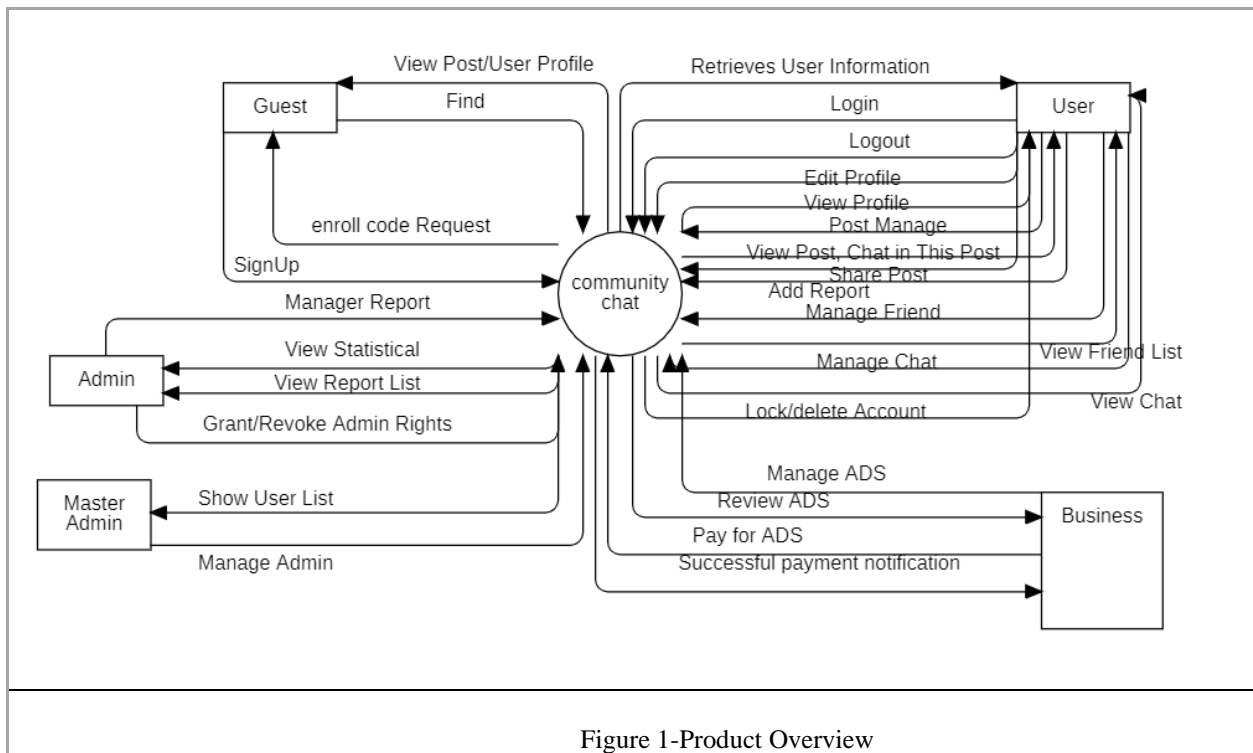
The social networking site project is aimed at creating a user-friendly and engaging platform that connects individuals from diverse backgrounds, fostering social interactions in a digital space. The platform serves as a centralized hub where users can easily discover, connect with, and communicate with friends, acquaintances, and new connections. It offers a range of features designed to encourage active participation, idea sharing, and the formation of communities based on common interests or goals.

The project prioritizes user experience, ensuring that the interface is intuitive and customizable to cater to individual preferences. Users will have the ability to create profiles, showcase their interests, and interact with others through various means such as messaging, commenting, and sharing content. The platform also facilitates the formation of communities or groups centered around specific themes or activities, allowing users to connect with like-minded individuals and collaborate on shared interests.

The site will accommodate different user roles, including guests, users, and administrators. Guests will have limited access to explore the platform, while registered users will enjoy enhanced features and the ability to personalize their profiles. Administrators will play a vital role in managing and moderating the site to ensure a safe and enjoyable experience for all users.

The overall vision of the social networking site project is to create a dynamic and interactive online environment that enriches users' social lives and facilitates meaningful connections. By harnessing the power of social media, the platform aims to provide individuals with a platform for self-expression, discovery, and collaboration. It aspires to create a vibrant digital community where users can explore diverse perspectives, foster new relationships, and contribute to personal and professional growth.

In summary, the social networking site project seeks to create an inclusive and engaging platform that connects individuals, promotes social interactions, and enables users to express themselves, discover new connections, and engage in meaningful conversations within a digital community.



2. User Requirements

2.1 Actors

#	Actor	Description
1	Guest	Guests are individuals who access the platform without logging in. They can sign up for a new account.
2	User	Users are individuals who have signed up and logged into their accounts. They can perform all actions available to guests, including viewing and searching for posts and users. In addition, users can create, update, and delete their own posts, manage comments on posts, share posts, engage in voting actions, manage their friend list, and communicate with other users through chat functionality.
3	Business	Users can create businesses. .With a business account, they can create ads, add, edit, delete ads. And they have to pay for those ads to appear in the news feed. Each business will have its own wallet called a pay budget. They will deposit money from paypal into the wallet and use the money in the wallet to pay for ads
4	Admin	Admins have additional privileges and responsibilities compared to regular users. They can perform all actions available to users, as well as view statistical information related to platform usage. Admins also have the authority to create, update, and delete posts, manage comments on posts, and perform administrative tasks such as managing user accounts and locking or deleting user accounts as necessary.
5	Master Admin	Master admins possess the highest level of authority on the platform. They have all the privileges and responsibilities of admins, and they also have the ability to grant or revoke admin rights for other users. Master admins can view posts, search for specific posts or users, view statistical information, manage user accounts, and manage admin privileges.

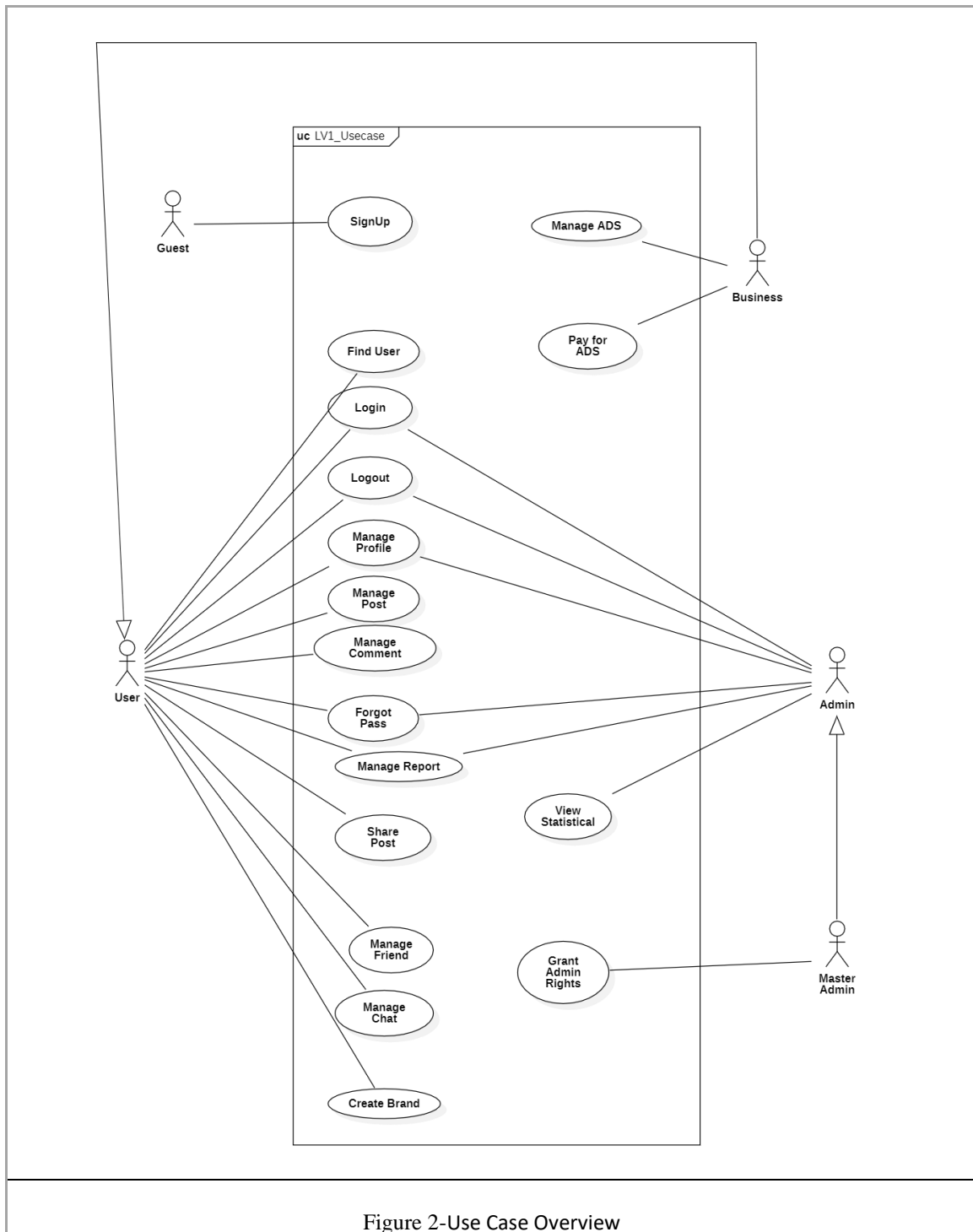
Table 1. All actors in the system

2.2 Use Cases

2.2.1 Diagram(s)

2.2.1.1. Use Case Overview

Below is an overview of the use cases for the Social Media



2.2.1.2. Use Case for Authentication

In the social networking site, all actors except for guests are required to undergo authentication upon entry. This process verifies the identity of the user and ensures that only authorized individuals are granted access. By enforcing authentication, the system can protect user accounts, personal information, and maintain the integrity of the platform.

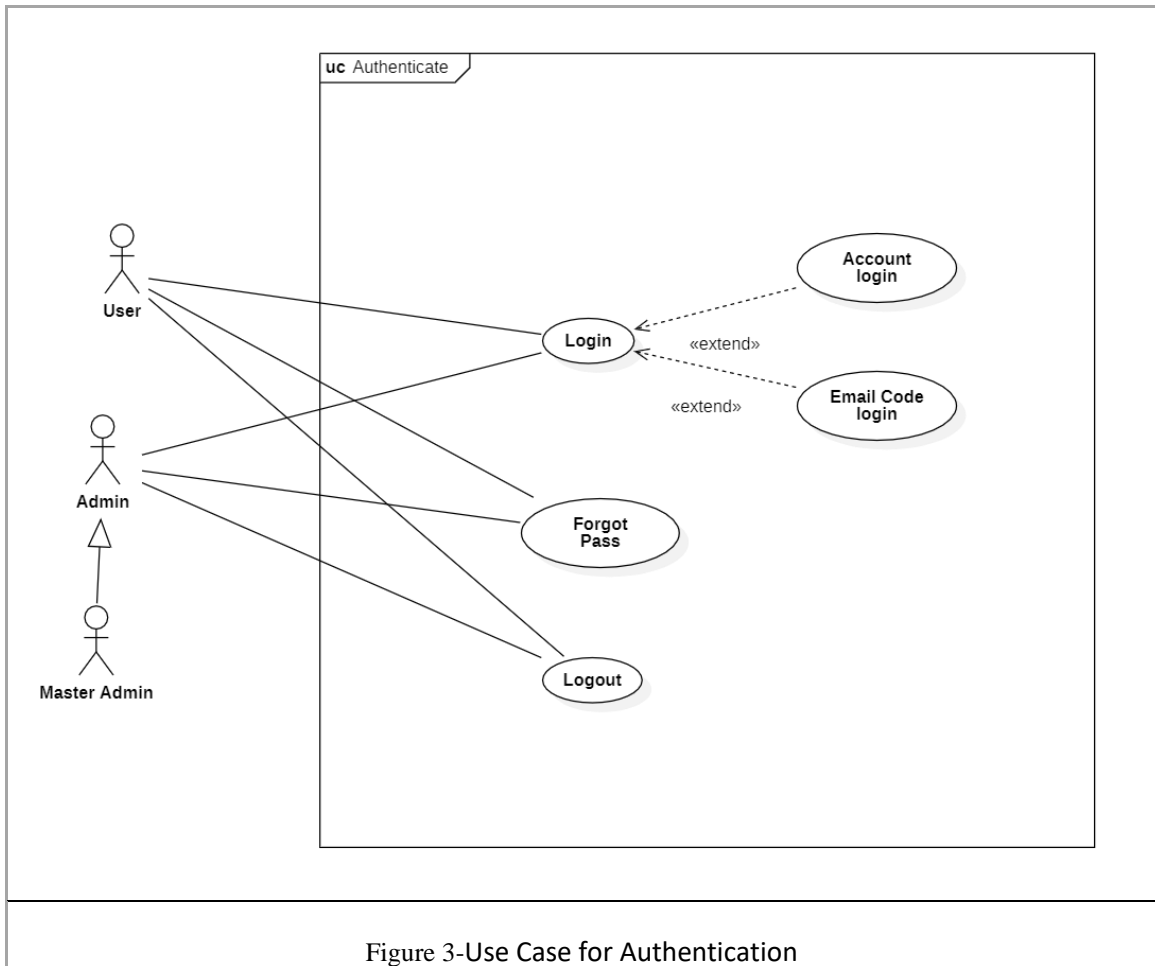


Figure 3-Use Case for Authentication

2.2.1.3. Guest

Below is a subsystem use case for the Guest actor

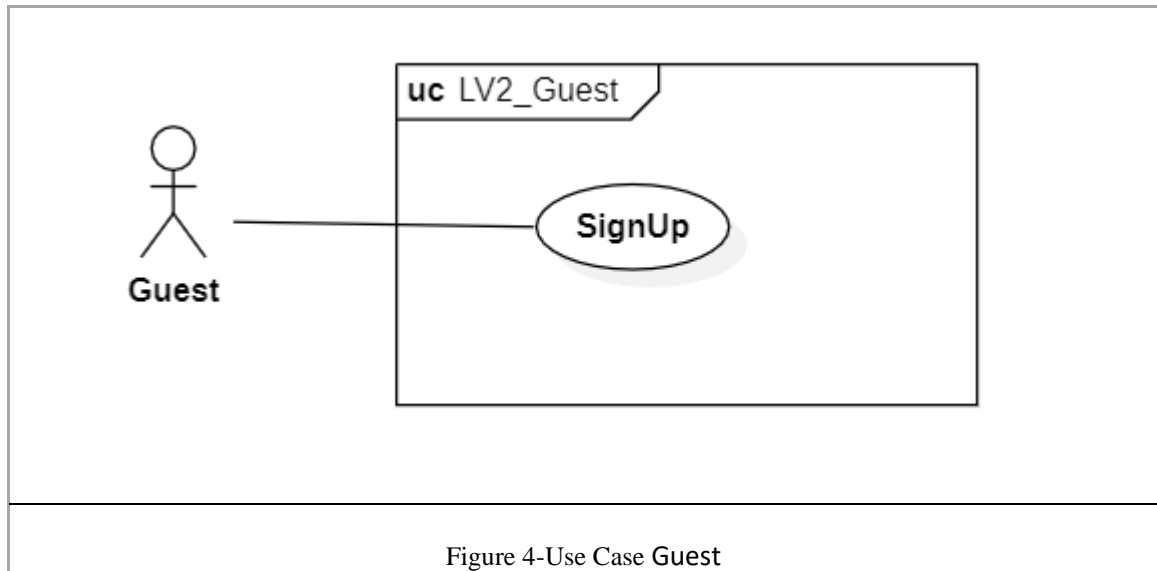


Figure 4-Use Case Guest

2.2.1.4. User

Below is a subsystem use case for the User actor

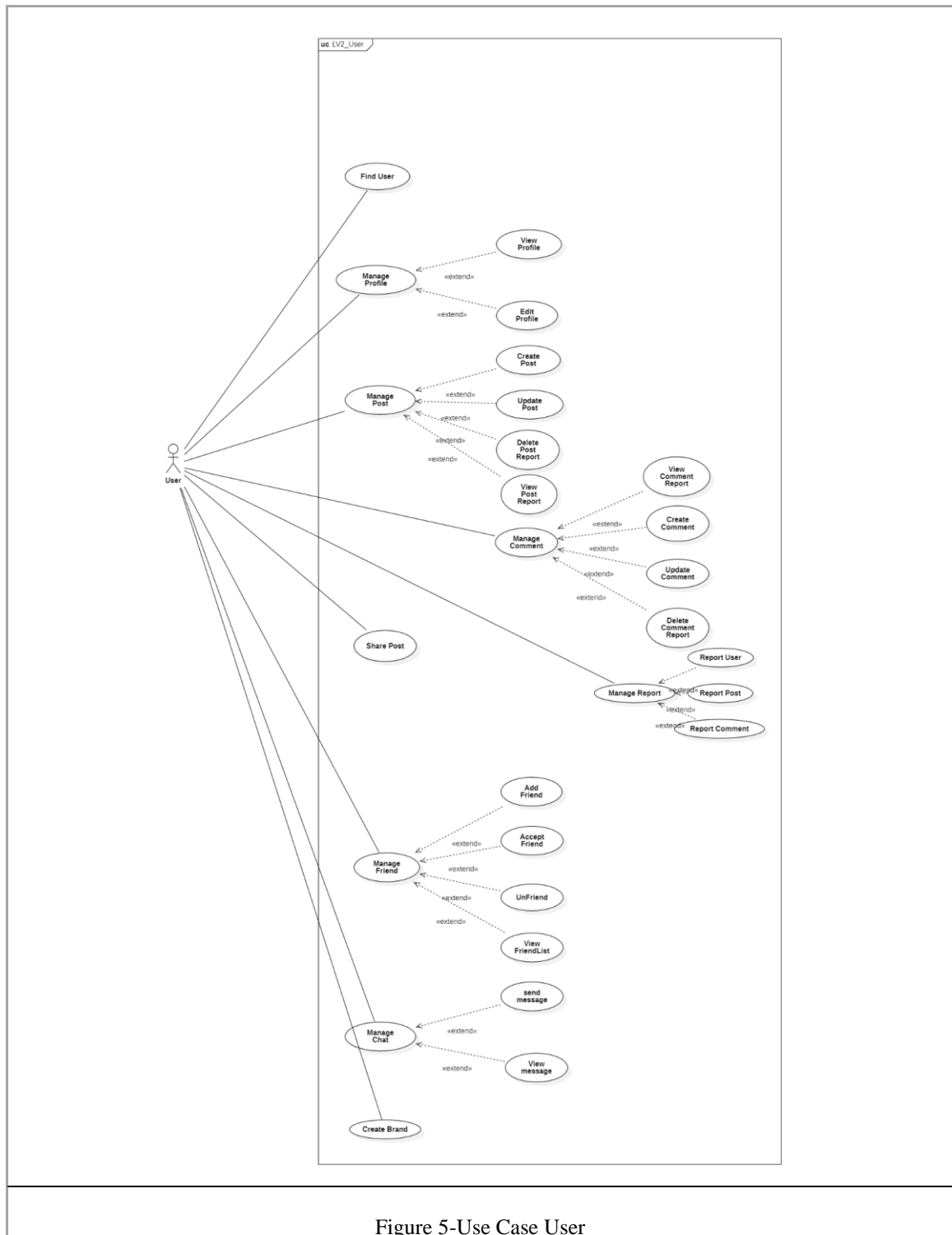
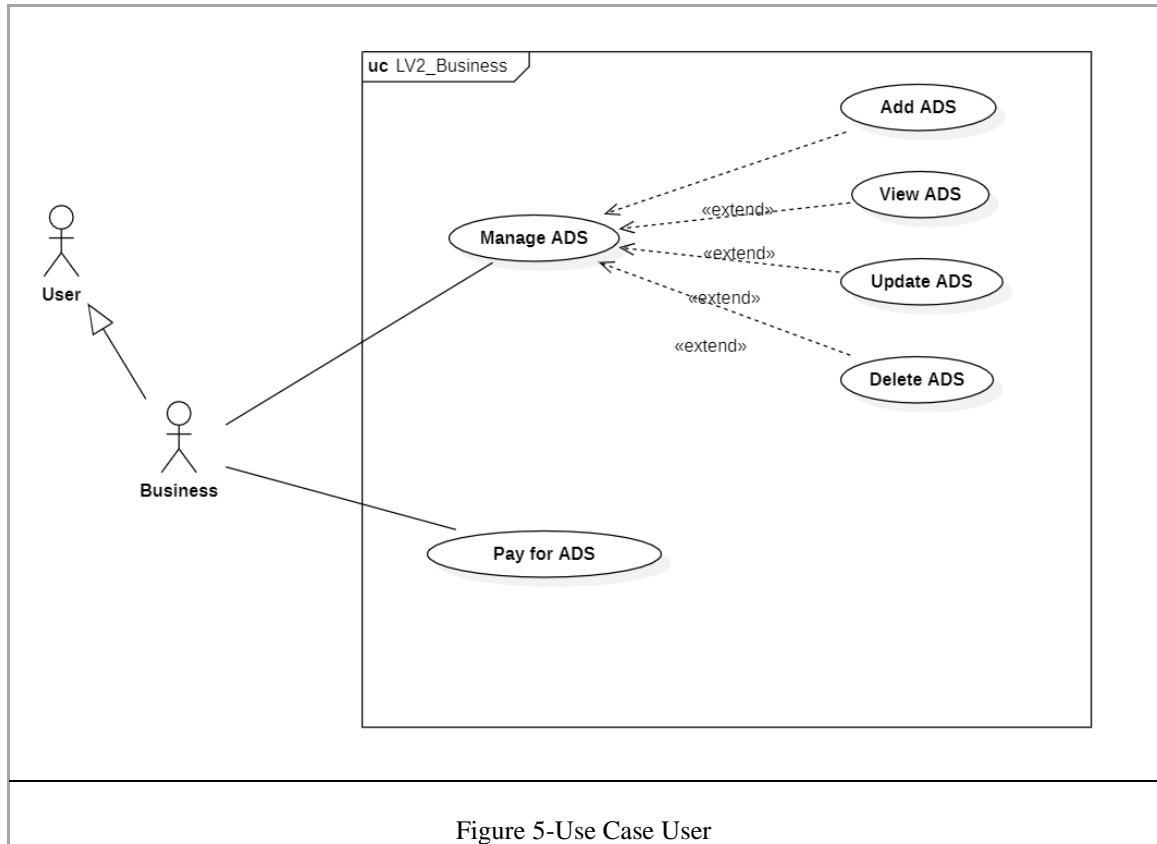


Figure 5-Use Case User

2.2.1.5. Business

Below is a subsystem use case for the **Business** actor



2.2.1.6. Admin

Below is a subsystem use case for the Admin actor

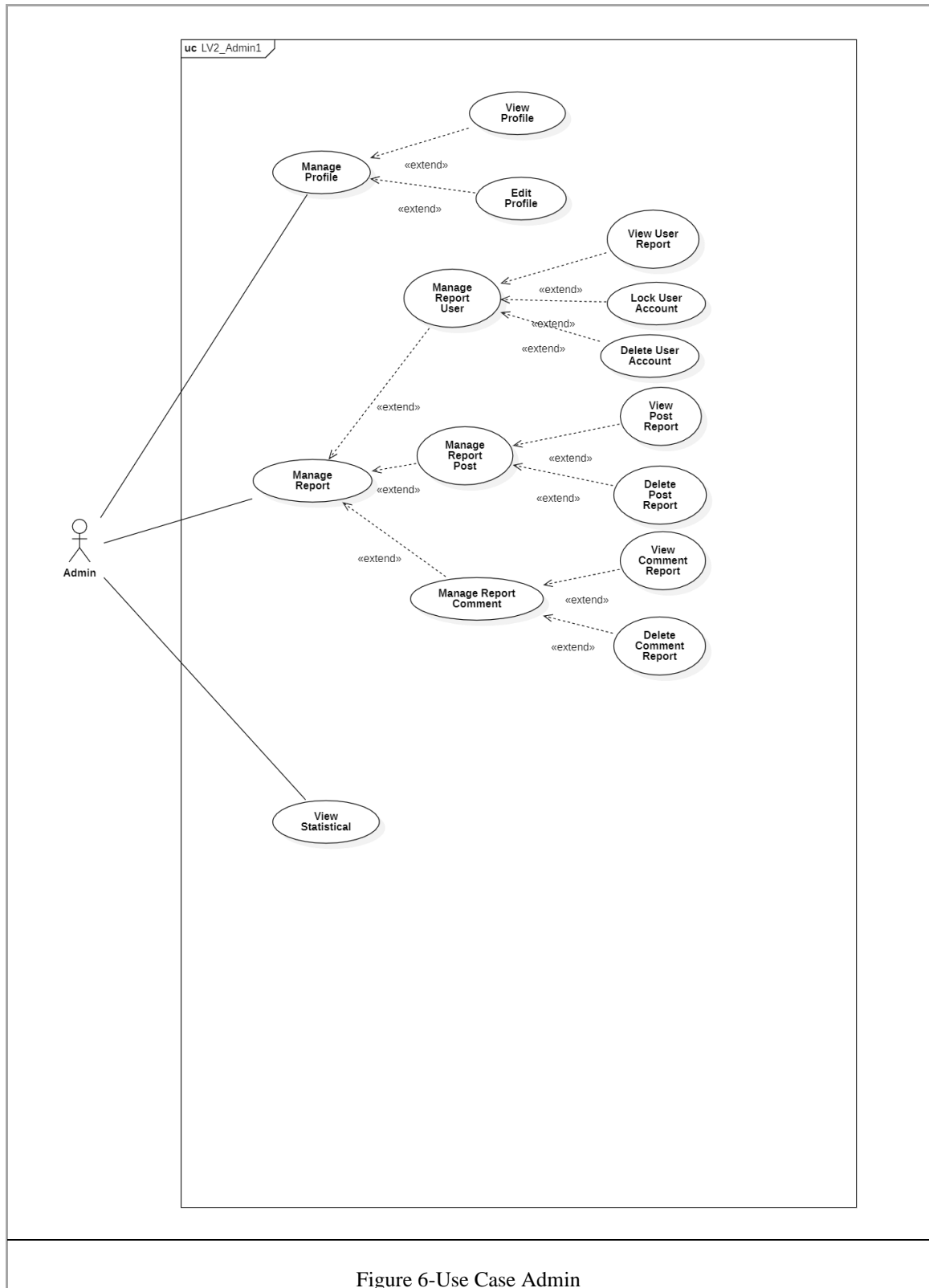
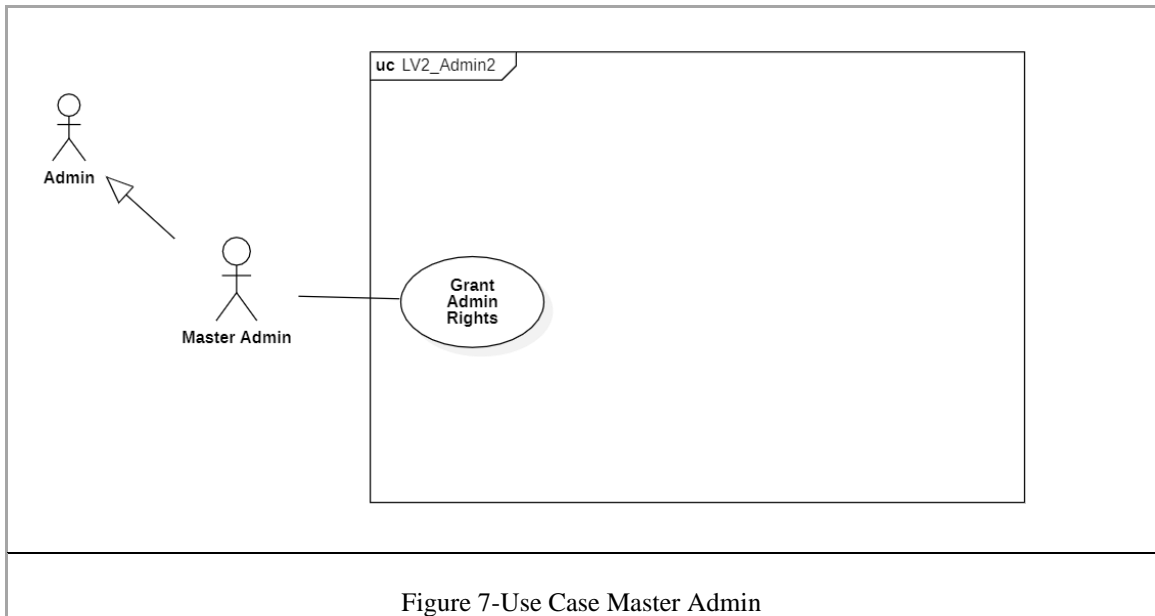


Figure 6-Use Case Admin

2.2.1.7. Master Admin

Below is a subsystem use case for the Master Admin actor



2.2.2 Descriptions

ID	Use Case	Actors	Status
UC-1	Sign Up	Guest	
UC-2	Login	User, Admin, Master Admin	
UC-3	Forgot Pass	User, Admin, Master Admin	
UC-4	Logout	User, Admin, Master Admin	
UC-5	Find User	User	modify
UC-6	Find Post	Guest, User, Admin, Master Admin	Deleted
UC-7	View Profile	Guest, User, Admin, Master Admin	
UC-8	Edit Profile	User, Admin, Master Admin	
UC-9	View Post	User	modify
UC-10	Create Post	User	
UC-11	Update Post	User	
UC-12	Delete Post	User	modify
UC-13	Share Post	User	
UC-14	View Comment	User	modify
UC-15	Create Comment	User	
UC-16	Update Comment	User	
UC-17	Delete Comment	User	modify
UC-18	Like	User	Deleted
UC-19	DisLike	User	Deleted
UC-20	Add Friend	User	
UC-21	Accept Friend	User	
UC-22	UnFriend	User	
UC-23	View FriendList	User	
UC-24	Send Message	User	
UC-25	Delete Message	User	Deleted
UC-26	View Message	User	
UC-27	Report User	User	
UC-28	Report Post	User	
UC-29	Report Comment	User	
UC-30	Lock User Account	Admin, Master Admin	
UC-31	Delete User Account	Admin, Master Admin	
UC-32	View Statistical	Admin, Master Admin	
UC-33	Grant Admin Rights	Master Admin	
UC-34	Revoke Admin Rights	Master Admin	
UC-35	Add ADS	Business	
UC-36	View ADS	Business	
UC-37	Update ADS	Business	
UC-38	Delete ADS	Business	
UC-39	Pay for ADS	Business	
UC-40	Create Brand	User	
UC-41	View Post Report	Admin, Master Admin	
UC-42	Delete Post Report	Admin, Master Admin	

ID	Use Case	Actors	Status
UC-1	Sign Up	Guest	
UC-2	Login	User, Admin, Master Admin	
UC-3	Forgot Pass	User, Admin, Master Admin	
UC-4	Logout	User, Admin, Master Admin	
UC-5	Find User	User	modify
UC-6	Find Post	Guest, User, Admin, Master Admin	Deleted
UC-7	View Profile	Guest, User, Admin, Master Admin	
UC-8	Edit Profile	User, Admin, Master Admin	
UC-9	View Post	User	modify
UC-10	Create Post	User	
UC-11	Update Post	User	
UC-12	Delete Post	User	modify
UC-13	Share Post	User	
UC-14	View Comment	User	modify
UC-15	Create Comment	User	
UC-16	Update Comment	User	
UC-17	Delete Comment	User	modify
UC-18	Like	User	Deleted
UC-19	DisLike	User	Deleted
UC-20	Add Friend	User	
UC-21	Accept Friend	User	
UC-22	UnFriend	User	
UC-23	View FriendList	User	
UC-24	Send Message	User	
UC-25	Delete Message	User	Deleted
UC-26	View Message	User	
UC-27	Report User	User	
UC-28	Report Post	User	
UC-29	Report Comment	User	
UC-30	Lock User Account	Admin, Master Admin	
UC-31	Delete User Account	Admin, Master Admin	
UC-32	View Statistical	Admin, Master Admin	
UC-33	Grant Admin Rights	Master Admin	
UC-43	View Comment Report	Admin, Master Admin	
UC-44	Delete Comment Report	Admin, Master Admin	
UC-45	View User Report	Admin, Master Admin	

Table 2

3. System features

3.1 Account Management

3.1.1 Description

Account Management is a critical system feature that enables users to create and manage their user accounts within the social networking platform. It involves functionalities related to

user registration, login, password management, and account settings. Account Management is of high priority as it forms the foundation for user interaction and personalized experiences within the platform.

3.1.2 Functional requirements

3.1.2.1. Sign Up (UC-1)

A Sign Up Page

https://signup.jsp

Sign up

User Name

Password

Full Name

Mail

date of birth

Day Month Year

date of birth

☐ Male ☐ Female

SignUp

Figure 8 - Sign Up

Use Case ID:	UC-1	Use Case Name:	Sign Up
Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	Guest	Secondary Actor:	
Description:	The Sign Up use case describes the process by which new users create an account on a social networking platform. This use case enables individuals to provide their personal information, such as their name, email address, and password, in order to register and gain access to the platform's features and functionalities.		
Priority:	High		
Trigger:	clicks on the "You don't have account?" link on the Sign In page or accesses the sign-up page directly through a provided link.		
Preconditions:	The guest must have a valid email address.		
Post - Conditions:	<p>The social networking platform functions without errors.</p> <p>The system successfully creates a new user account.</p> <p>The user gains access to the platform and can begin using its features and functionalities.</p>		
Basic Flow:	<ol style="list-style-type: none"> 1) The user navigates to the social networking platform's landing page. 2) The user clicks on the " You don't have account?" link. 3) The system presents the user with the registration form, prompting them to provide their personal information, including their name, email address, and chosen password. 4) The user fills in the required fields of the registration form with their accurate information. 5) The user submits the registration form by clicking on the "Sign Up" button. 6) The system validates the provided information, ensuring that the email address is valid and the username is not existing. 7) If the information is valid, the system creates a new user account and assigns the user a unique identifier or username. 8) The system sends a verification email to the user's provided email address and displays verification code to confirm the email. 9) The user checks their email and input verification code to confirm their email address. 10) The system verifies the email address and activates the user's account. 11) The system redirects the user to the login page, indicating that their account has been successfully created. 		
Alternative Flow:			

Exception Flow:	<p>If the user fills in an invalid email address, the system displays an error message and prompts the user to provide a valid email address.</p> <p>If the user provides an userName that is already existing, the system displays an error message and informs the user to provide a different email address.</p>
Business Rules:	BR-01, BR-02, BR-03, BR- 04, BR-05, BR-07

3.1.2.2. Login (UC-2)

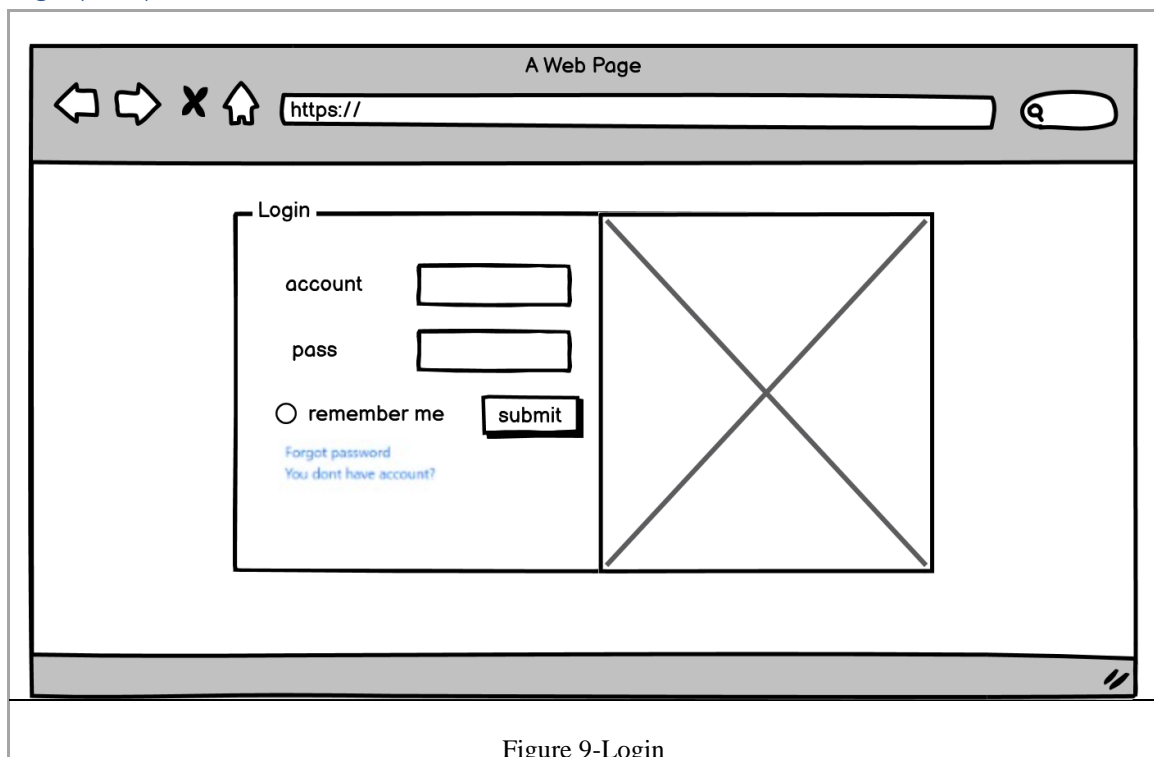


Figure 9-Login

Use Case ID:	UC-2	Use Case Name:	Login
Created By:	Nguyen Anh Viet	Date Created:	07/07/2023
Primary Actor:	User, Admin, Master Admin	Secondary Actor:	
Description:	<p>The Login Use use case describes the process of a social networking platform allows users to access their personal accounts using their registered username and password. Users enter their login credentials and then click the "Submit" button to log in to the system. Additionally, this feature provides a "Remember Me" option to save the login information for future access, making it more convenient and time-saving for users to log back into their accounts.</p>		

Priority:	Medium
Trigger:	access the website's login screen
Preconditions:	User's account and password must be confirmed by the system
Post - Conditions:	<p>The social networking platform functions without errors.</p> <p>User successfully accessed the system.</p> <p>The user gains access to the platform and can begin using its features and functionalities.</p>
Basic Flow:	<p>User opens the login page or interface of the social networking platform.</p> <p>User enters their registered username or email address and password.</p> <p>User clicks the "Submit" button to initiate the login process.</p> <p>The system verifies the entered credentials against the stored user data.</p> <p>If the credentials are correct, the system grants access to the user's account.</p> <p>The user is redirected to the platform's main or home page, indicating a successful login.</p> <p>Optionally, the user can select the "Remember Me" checkbox to save their login information for future use.</p> <p>In subsequent visits, if the "Remember Me" option was selected, the user is automatically logged in without needing to re-enter their credentials.</p>
Alternative Flow :	
Exception Flow:	In case the entered credentials are incorrect or there are any errors, appropriate error messages may be displayed to notify the user and allow them to correct their input.
Business Rules:	

3.1.2.3. Forgot Password (UC-3)

The figure shows a web browser interface for a 'Forgot Password' feature. The browser window is titled 'A Web Page'. The address bar contains 'https://'. The main content area displays a form with three input fields: 'Mailcode' (with a label above it), 'Mail', and 'Mailcode'. Below these fields is a 'submit' button. To the right of the input fields is a large rectangular area with a diagonal cross, likely a placeholder for an image or a warning message. The browser window has standard navigation buttons (back, forward, stop, home) and a search icon.

Figure 10-Mail Code

Use Case ID:	UC-3	Use Case Name:	Forgot Password
Created By:	Nguyen Anh Viet	Date Created:	07/07/2023
Primary Actor:	User, Admin, Master Admin	Secondary Actor:	
Description:	The Forgot Password feature allows users to recover their forgotten passwords by entering their registered email address and verification code received via email. This feature consists of an email field, an email code field, and a submit button. Users enter their email, receive the code, enter it, and submit to verify and reset their password.		
Priority:	High		
Trigger:	clicks on the "Forgot password?" link on the Sign In page or accesses the sign-up page directly through a provided link.		
Preconditions:	The guest must have a valid email address and email code.		
Post - Conditions:	The social networking platform functions without errors. Enter the right email code..		

Basic Flow:	<p>User access the "Forgot Password" feature on the social networking platform.</p> <p>User is presented with a form containing an email field.</p> <p>User enter their registered email address into the email field.</p> <p>User clicks on the "" button.</p> <p>The platform verifies the provided email address and sends a verification code to the user's email.</p> <p>User checks their email for the verification code.</p> <p>User returns to the platform and enters the received verification code into the designated field.</p> <p>User clicks on the "Confirm" button.</p> <p>The platform validates the entered verification code.</p> <p>If the code is correct, the user is redirected to a password reset page.</p> <p>User enters a new password into the password field.</p> <p>User clicks on the "Submit" button to confirm the password reset.</p> <p>The platform updates the user's password and notifies them of the successful password reset.</p> <p>Users can now log in using the new password.</p>
Alternative Flow :	
Exception Flow:	the user entered an invalid email, or the email is valid but the email code sent to the email is incorrect
Business Rules:	BR-02

3.1.2.4. Logout (UC-4)

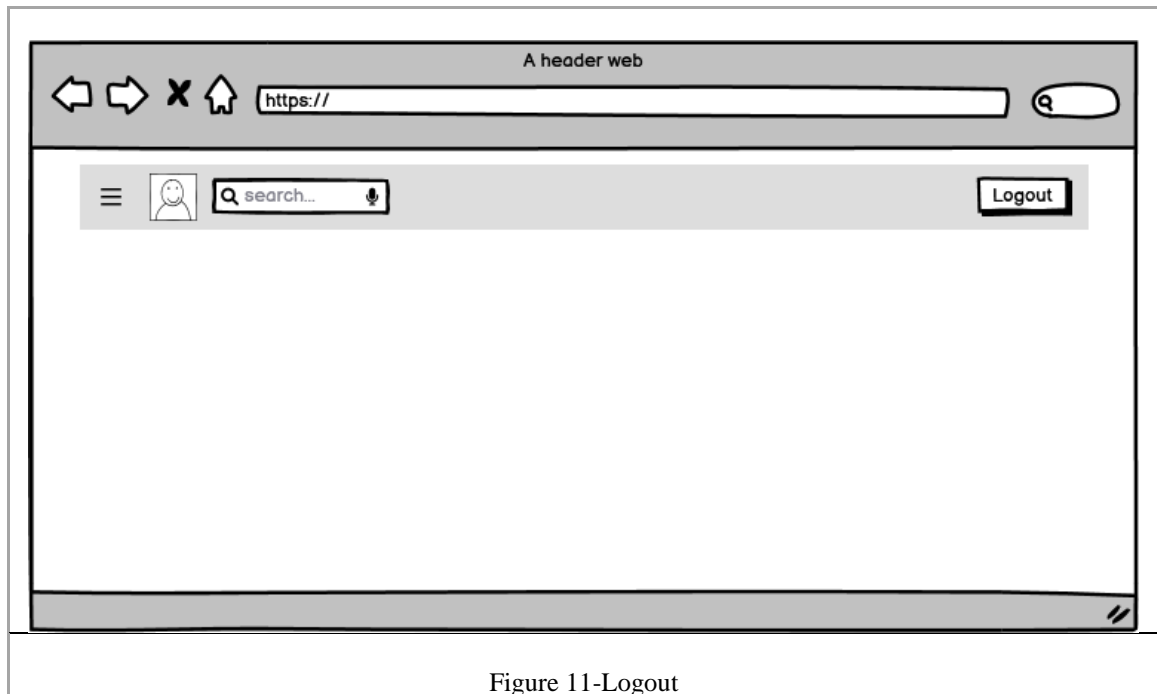


Figure 11-Logout

Use Case ID:	UC-4	Use Case Name:	Logout
Created By:	Nguyen Anh Viet	Date Created:	07/07/2023
Primary Actor:	User, Admin, Master Admin	Secondary Actor:	
Description:	The logout function in a social networking platform allows users to log out of their accounts. When a user selects the logout function, the system will confirm and terminate the user's current login session, redirecting them to either the login page or the main page of the social networking platform. The logout function ensures the security and privacy of users by allowing them to exit their accounts and prevent unauthorised access to their personal information.		
Priority:	High		
Trigger:	They can click on the "Logout" icon on the homepage bar.		
Preconditions:	The user has accessed and saved their login information in the system's session.		
Post - Conditions:	The user's session is terminated and they are logged out of the system.		
Basic Flow:	The user clicks on the "Logout" button or a similar option to initiate the logout process.		

	<p>The system verifies the user's session and authentication status.</p> <p>The system terminates the user's session and removes the associated session data.</p> <p>The system redirects the user to the logout confirmation page or the login page.</p>
Alternative Flow :	
Exception Flow:	<p>The user is already logged out or their session has expired:</p> <p>There are any technical issues or errors during the logout process</p>
Business Rules:	

3.1.2.5. Edit Profile (UC-8)

The diagram illustrates a web browser window titled "A Web Page". The address bar contains "https://". The main content area displays a "User Profile" form. The form includes two "choose file" buttons for "cover image" and "Avatar". Below these are text input fields for "full name", "DOB", "Gender", "Current City", "Nationality", "Phone number", "Email address", and "Education". A "save" button is at the bottom of the form. The browser window has standard navigation buttons (back, forward, stop, home) and a search icon.

Figure 12-Edit Profile

Use Case ID:	UC-8	Use Case Name:	Edit Profile
Created By:	Nguyen Ho Ngoc An	Date Created:	07/07/2023
Primary Actor:	User, Admin, Master Admin	Secondary Actor:	

Description:	The function of changing user personal information on a platform allows users to modify their account details. It provides users with control over their personal information, enabling them to update and protect their accounts while enhancing security and privacy.
Priority:	Medium
Trigger:	They can click on the "ChangeInfor" icon on the Personal Profile.
Preconditions:	The user has accessed and saved their login information in the system's session.
Post - Conditions:	The user's session is terminated and they are logged out of the system.
Basic Flow:	<p>When users wish to change their personal information, they can typically find an option "Change Information" .</p> <p>Clicking on this option initiates the process. The system then verifies the user's session and authentication status to ensure the request is valid.</p> <p>Once confirmed, the system allows the user to modify their personal information, such as their name, email address,</p> <p>After the changes are made, the system updates the user's account details accordingly. Users are then redirected to a personal profile page,</p> <p>This function provides users with the flexibility to manage and update their personal information conveniently.</p>
Alternative Flow :	
Exception Flow:	<p>In exceptional cases, there may be situations where the user is already logged out or their session has expired when attempting to change their personal information.</p> <p>This could occur due to various reasons such as prolonged inactivity,...</p> <p>In such instances, users may need to log in again to access their account and proceed with changing their personal information.</p>
Business Rules:	BR-05

3.2 User Search

3.2.1 Description

User Search and Information Retrieval is a system feature that allows users to find and retrieve information about other users within the social networking platform. It involves functionalities related to searching for specific users, viewing user profiles, and accessing relevant user information. User Search and Information Retrieval is of medium priority as it enhances user engagement and facilitates social connections within the platform.

3.2.2 Functional requirements

3.2.2.1. Find User (UC-5)



Use Case ID:	UC-5	Use Case Name:	Find User
Created By:	Nguyen Ho Ngoc An	Date Created:	07/07/2023
Primary Actor:	User, Admin, Master Admin	Secondary Actor:	
Description:	The function of finding a user allows users to search for specific individuals by entering their name. Users can browse through the search results to access the desired person's profile and initiate connections or interactions. This function facilitates social connections and expands one's network within the platform.		
Priority:	Medium		
Trigger:	Users can utilise the search bar in header		
Preconditions:	To use the function of finding a user, users must have an active account and be logged in. A stable internet connection is also required for effective searching and retrieving search results..		
Post - Conditions:	The user's session is terminated and they are logged out of the system.		

Basic Flow:	<p>The basic flow of the function to find a user involves users utilising the search bar or dedicated search feature.</p> <p>They enter the name of the person they are looking for. The system then generates a list of potential matches based on the provided information.</p> <p>Users can browse through the search results, which typically include profile pictures and basic information, to identify the desired individual.</p> <p>Upon selecting the desired user, users can access their profile and initiate connections or interactions such as sending friend requests or engaging in conversations. This basic flow of finding a user enables users to easily locate and connect with individuals within the platform's vast user base.</p>
Alternative Flow :	
Exception Flow:	<p>In exceptional cases, users may encounter limitations while using the find user function.</p> <p>Privacy settings or deactivated/deleted accounts can restrict profile visibility in search results. Users who have chosen to hide their profiles from search may also be challenging to find. In such scenarios, alternative means of connecting with the desired individual may be necessary.</p>
Business Rules:	

3.3 Profile and Post View

3.3.1 Description

Profile and Post View is a system feature that focuses on providing users with a seamless experience to view and interact with user profiles and posts within the social networking platform. It includes functionalities related to profile viewing, post discovery, and engaging with posts through comments, likes, and sharing. Profile and Post View is of high priority as it forms the core user experience and drives user engagement on the platform.

3.3.2 Functional requirements

3.3.2.1. View Profile (UC-7)

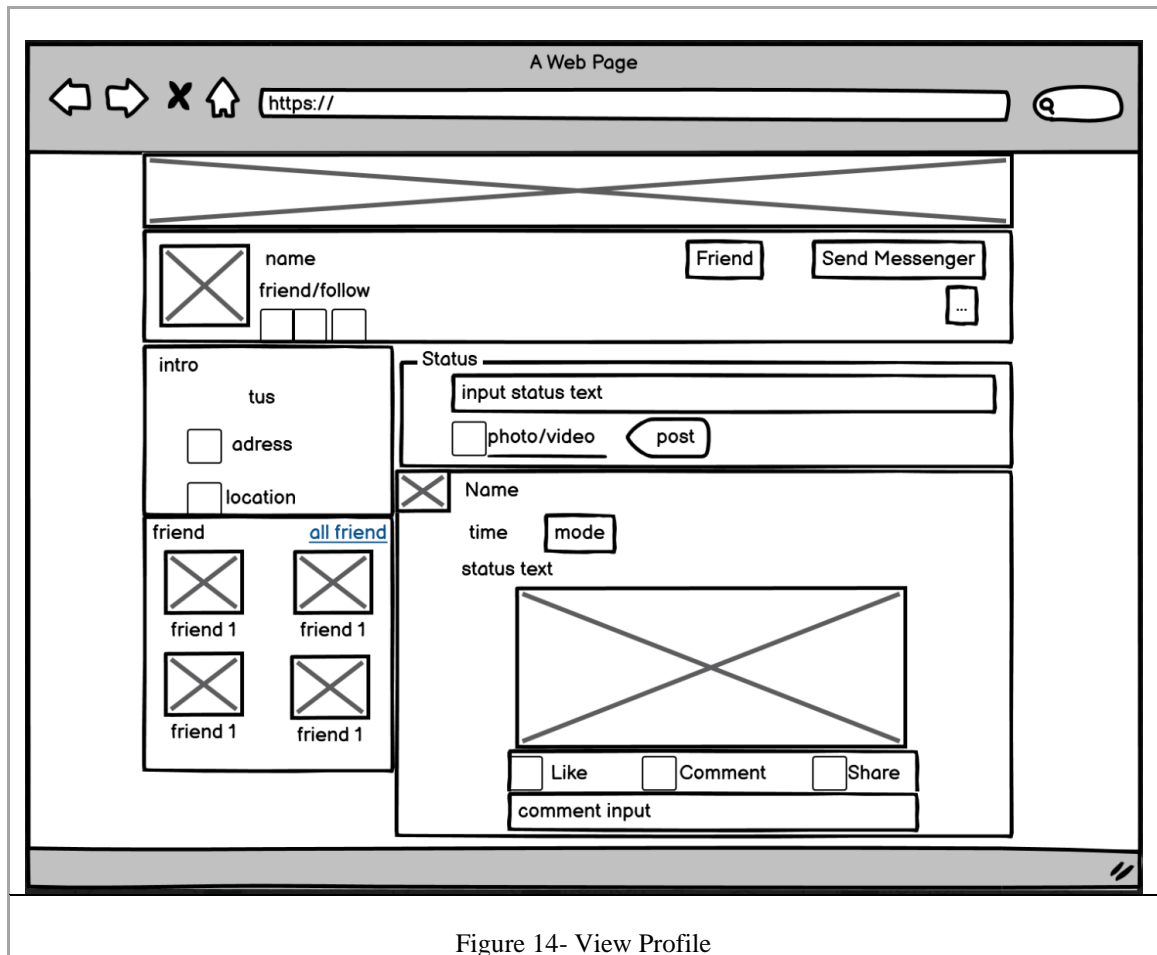


Figure 14- View Profile

Use Case ID:	UC-7	Use Case Name:	View Profile
Created By:	Nguyen Ho Ngoc An	Date Created:	07/07/2023
Primary Actor:	User, Admin, Master Admin	Secondary Actor:	
Description:	Viewing a personal profile allows users to access and manage their account information, privacy settings, and online identity. It offers control over personal details, enhances security, and enables customization of privacy preferences.		
Priority:	Medium		

Trigger:	They can click on the "Avatar" icon on the Home Page.
Preconditions:	To view a personal profile, the user must have logged in and saved their login information in the system's session. This allows for secure access to account details and personalised content within their profile.
Post - Conditions:	The user's session is terminated and they are logged out of the system.
Basic Flow:	<p>Upon logging in successfully, users can navigate to their profile page. Here, they can see an overview of their profile, including their profile picture, cover photo, and basic information.</p> <p>They can also access tabs or sections dedicated to displaying their posts, photos, friends, and other relevant content. By clicking on specific sections or tabs, users can explore and interact with different aspects of their profile. They can edit their personal details, update their privacy settings, and customise the visibility of their posts and information.</p> <p>The function of viewing a personal profile provides users with a comprehensive and dynamic way to manage and engage with their online presence..</p>
Alternative Flow :	
Exception Flow:	<p>In exceptional cases, users may encounter issues while attempting to view their personal profile. These issues can include technical glitches, internet connectivity problems, or account restrictions.</p> <p>Error messages or notifications may be displayed, guiding users to troubleshoot or seek support. Temporary suspensions or account reviews can also limit access to personal profiles.</p>
Business Rules:	

3.3.2.2. View Post (UC-9)

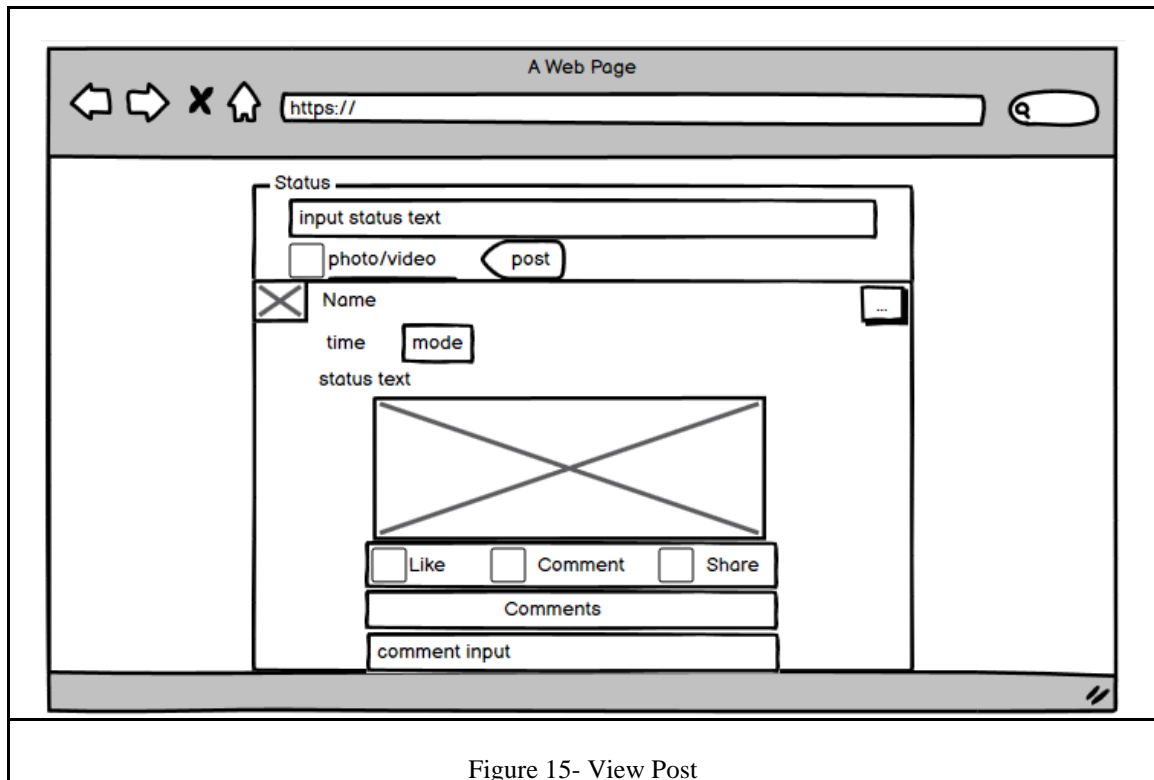


Figure 15- View Post

Use Case ID:	UC-9	Use Case Name:	View Post
Created By:	Nguyen Ho Ngoc An	Date Created:	07/07/2023
Primary Actor:	User, Admin, Master Admin	Secondary Actor:	
Description:	The function of viewing posts allows users to explore and interact with a variety of content shared by friends. Users can access their News Feed or specific profiles to see a stream of posts, including text, photos, videos, and links. They can engage with posts by liking, commenting, or sharing, fostering connections and conversations within the community. This function offers users a personalised and dynamic way to stay connected and informed.		
Priority:	Medium		
Trigger:	Can be accomplished by selecting the "Home" option from the navigation menu.		
Preconditions:	To view posts, users must be logged in and have their login information saved in the system's session for secure access to personalised content..		

Post - Conditions:	The user's session is terminated and they are logged out of the system.
Basic Flow:	<p>To view posts, users access their Home Page or specific profiles, where a chronological stream of posts is displayed.</p> <p>Users can scroll through the feed, engage with posts through likes, comments, and shares, and stay updated with content from their social network.</p>
Alternative Flow :	
Exception Flow:	<p>In exceptional cases, users may encounter technical issues or limitations while viewing posts.</p> <p>This can include slow loading, refresh problems, blocked content due to privacy settings, or removal by the original poster or platform moderators.</p>
Business Rules:	

3.4 Post Management

3.4.1 *Description*

Post Management is a system feature that enables users to create, update, and manage their posts within the social networking platform. It encompasses functionalities related to post creation, editing, deletion, and post-specific settings. Post Management is of medium priority as it is essential for users to share content and maintain control over their posts.

3.4.2 Functional requirements

3.4.2.1. Create Post (UC-10)

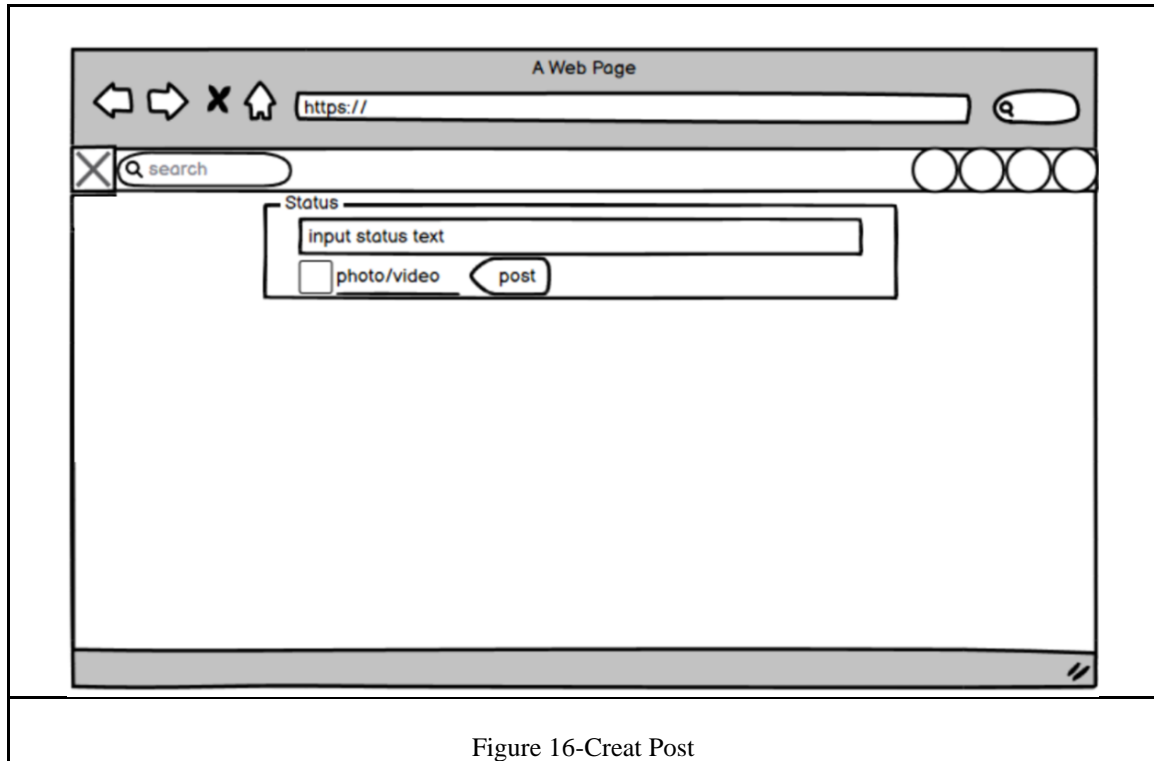


Figure 16-Creat Post

Use Case ID:	UC-10	Use Case Name:	Create Post
Created By:	Nguyen Duy Khanh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The posting function in a social networking platform allows users to create and share content with others. When a user selects the posting function, they can create a new post by composing content and attaching images or videos. After the user completes the post, they can choose to publish it, making it visible to their friends or the wider network, depending on their privacy settings. The posting function facilitates communication, sharing of thoughts, and engagement with other users on the social networking platform.		
Priority:	Medium		
Trigger:	User can click "Post" button on post creation bar.		
Preconditions:	The user already has an account of the social network.		

Post - Conditions:	The user's posts are saved on the system and displayed on their personal page and Home page.
Basic Flow:	<p>The user enters the content of the post into a text box or editing dialog.</p> <p>The user can select images or videos from their computer or from files stored on the social networking platform.</p> <p>After entering the content and selecting images or videos, the user presses the "Post" button or a similar option to submit the post to the system.</p> <p>The system proceeds to upload the post content, including text, images, and videos, to the server of the social networking platform.</p> <p>The system may analyze the post to apply privacy rules, arrange the post in the timeline, or categorize it accordingly.</p> <p>The post will be displayed on the user's personal profile, allowing friends or the user's social network to view and interact with the post.</p> <p>Additionally, the post may also appear on the homepage or "HomaPage" of the social networking platform, depending on the user's status and personal settings.</p>
Alternative Flow :	
Exception Flow:	The user is not logged into the social network or the content or files they upload to the post is inappropriate.
Business Rules:	

3.4.2.2. Update Post (UC-11)

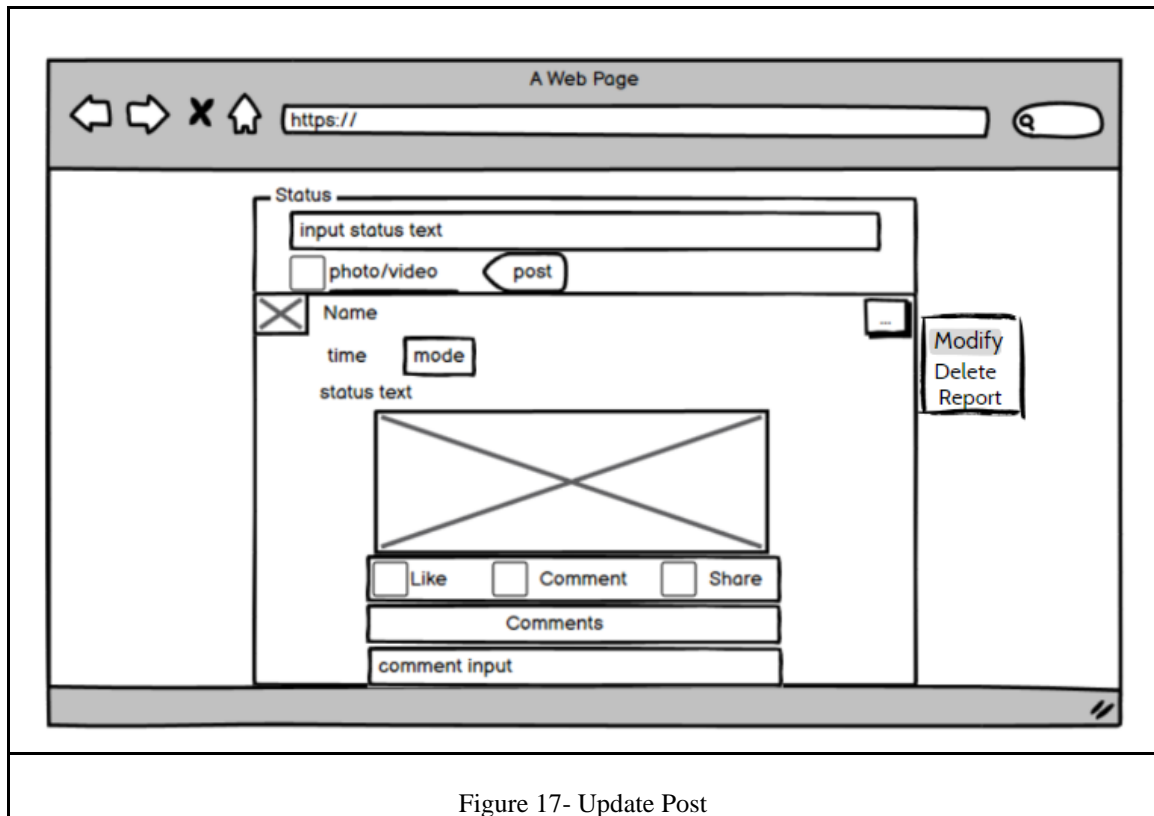


Figure 17- Update Post

Use Case ID:	UC-11	Use Case Name:	Modify Post
Created By:	Nguyen Duy Khanh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The editing feature on social networking platforms allows users to modify and refine their existing posts, ensuring accuracy and relevance. This functionality empowers users to maintain up-to-date information and improve the quality of their shared content.		
Priority:	Medium		
Trigger:	Users can click the "Modify" option in the options on the top right corner of the post.		
Preconditions:	The user already has an account of the social network and posted.		
Post - Conditions:	The user's post is updated on the system and the edited user element is updated on the post.		

Basic Flow:	<p>The user accesses the post they wish to edit on the social networking platform.</p> <p>They can modify the existing content by editing the text or replacing images or videos.</p> <p>After making the desired changes, the user saves the edited post.</p> <p>The system updates the post with the edited content, including any modifications made to the text, images, or videos.</p> <p>The system may reanalyze the post to ensure privacy rules and categorization are still applied accurately.</p> <p>The edited post is displayed on the user's personal profile, allowing friends and the user's social network to view and interact with the updated content.</p> <p>Depending on the user's preferences and settings, the edited post may also appear on the homepage or "HomaPage" of the social networking platform, ensuring broader visibility.</p>
Alternative Flow :	
Exception Flow:	The user is not logged in to the social network or the post does not exist or has been deleted.
Business Rules:	

3.4.2.3. Delete Post (UC-12)

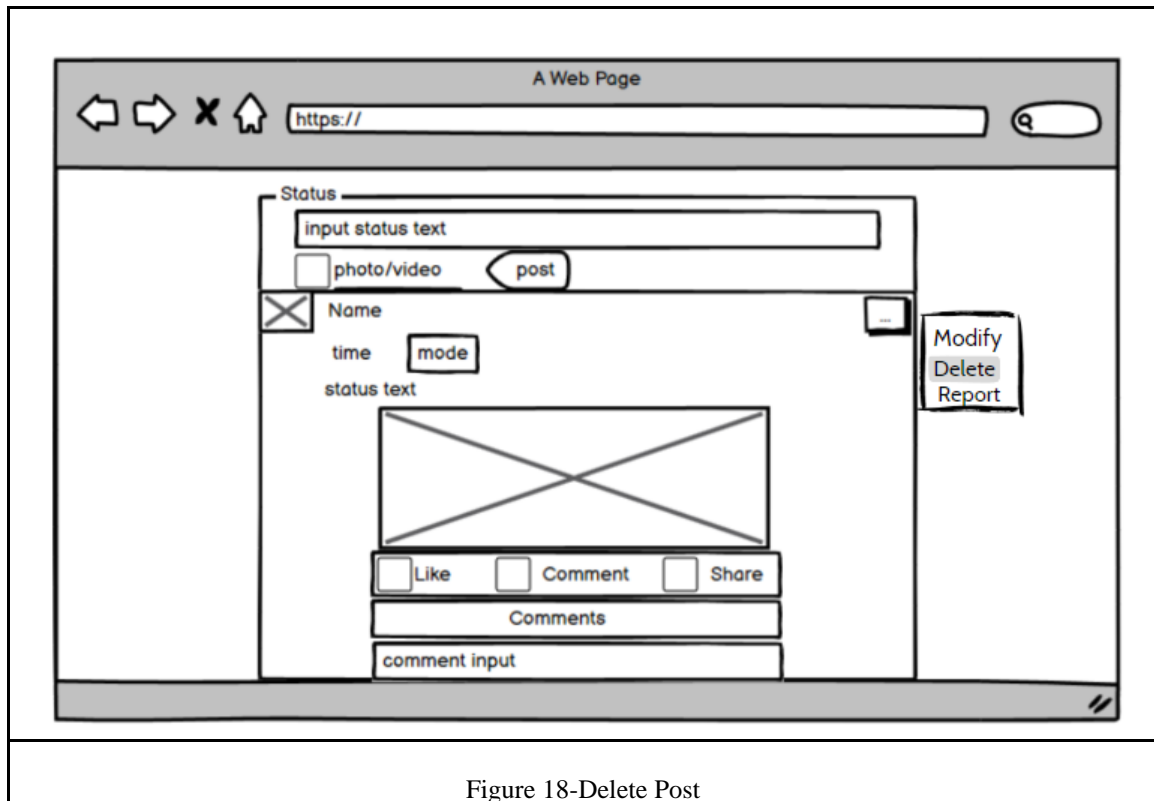


Figure 18-Delete Post

Use Case ID:	UC-12	Use Case Name:	Delete Post
Created By:	Nguyen Duy Khanh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The ability to delete posts on social networking platforms provides users with the option to remove their previously published content. This feature ensures control over shared information and allows users to manage their online presence effectively.		
Priority:	Medium		
Trigger:	Users can click the "Delete" option in the options on the top right corner of the post.		
Preconditions:	The user already has an account of the social network and posted.		
Post - Conditions:	The user's post is deleted on the system and is no longer visible on social networks.		

Basic Flow:	<p>The user selects the post they want to delete on the social networking platform.</p> <p>They access the post settings or options to initiate the deletion process.</p> <p>After confirming their intent to delete, the system verifies their authorization and permissions.</p> <p>The system proceeds to delete the post from the server of the social networking platform.</p> <p>The deleted post is permanently removed and no longer visible to others.</p> <p>The user's profile or feed is updated to reflect the removal of the post, ensuring it is effectively deleted from their online presence.</p>
Alternative Flow :	
Exception Flow:	The user is not logged in to the social network or the post does not exist or has been deleted.
Business Rules:	

3.4.2.4. Share Post (UC-13)

The diagram illustrates a web page titled "A Web Page" with a browser address bar showing "https://". The main content area contains a "Status" section with an "input status text" field, a "photo/video" button, and a "post" button. Below this is a "Name" input field, a "time" and "mode" selector, and a "status text" input field. A large placeholder for a photo is shown with a diagonal cross. Below the photo placeholder are buttons for "Like", "Comment", and "Share". Further down are input fields for "Comments" and a "comment input" field.

Figure 19-Share Post

Use Case ID:	UC-13	Use Case Name:	share Post
Created By:	Nguyen Duy Khanh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The sharing function on social networking platforms enables users to distribute and disseminate interesting content with their network. By sharing posts, users can contribute to discussions, spread awareness, and engage with others.		
Priority:	Medium		
Trigger:	The user clicks the "share" button below the post.		
Preconditions:	The user already has an account of the social network.		
Post - Conditions:	User's shared posts are saved on the system and displayed on their profile and Home page.		
Basic Flow:	<p>The user selects the post they want to share on the social networking platform.</p> <p>They access the sharing options or buttons to initiate the sharing process.</p> <p>After selecting the sharing option, a dialog box or text box appears where the user can enter their sharing content.</p> <p>Once the user completes entering the sharing content, they press the "Share" button or a similar option to share the post.</p> <p>The system proceeds to distribute the shared post, making it visible to the intended audience according to the user's sharing preferences and privacy settings.</p> <p>The shared post is displayed on the user's personal profile and may also appear on the news feed or timelines of their friends or connections.</p>		
Alternative Flow :			
Exception Flow:	The user is not logged in to the social network or the post does not exist or has been deleted.		
Business Rules:			

3.5 Comment Management

3.5.1 Description

Comment Management is a system feature that allows users to view, create, update, and manage comments on posts within the social networking platform. It encompasses functionalities related to comment interaction, moderation, and user engagement. Comment Management is of medium priority as it plays a crucial role in facilitating user discussions and fostering community engagement.

3.5.2 Functional requirements

3.5.2.1. View Comment (UC-14)

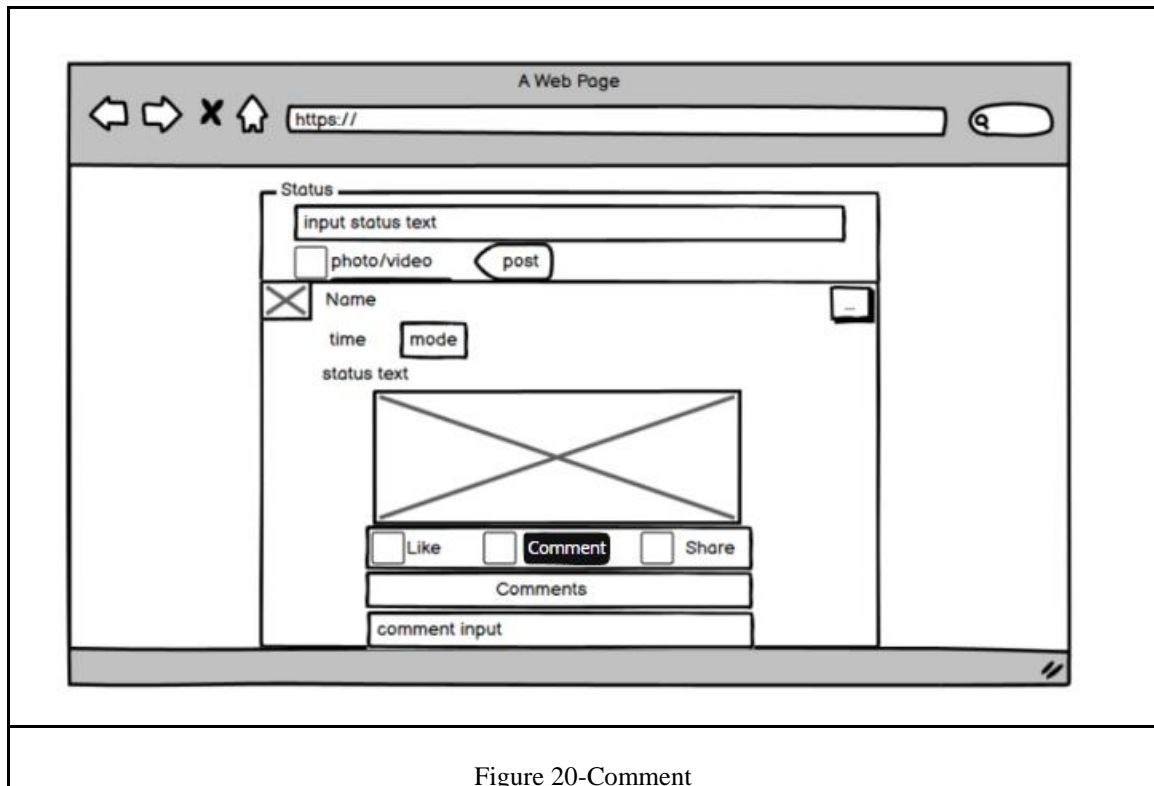


Figure 20-Comment

Use Case ID:	UC-14	Use Case Name:	View Comment
Created By:	Nguyen Duy Khanh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	

Description:	The comment feature on social networking platforms allows users to engage in conversations, provide feedback, and share their thoughts on shared posts. By viewing comments, users can actively participate in discussions, gain insights, and build connections within their network.
Priority:	Medium
Trigger:	The user clicks the "Comment" button below the post.
Preconditions:	The user already has an account of the social network.
Post - Conditions:	The comment view page is displayed allowing users to view comments.
Basic Flow:	<p>The user visits the post on which they want to see the comments on the social networking platform.</p> <p>They hit the comment button or a similar option to initiate the comment viewing process.</p> <p>After selecting the comment button, the system displays a comment view page or a section dedicated to the article.</p> <p>On the comment view page, users can view comments posted by others in response to shared content.</p> <p>Comments are usually displayed in chronological order, with the most recent comments appearing at the top.</p> <p>Users can scroll through the comments to read different thoughts, opinions, and discussions related to the post.</p> <p>The comment view page may include options to like or reply to specific comments to encourage engagement and interaction.</p> <p>The comment view page allows users to better understand, understand different points of view, and actively participate in discussions by adding their own comments if desired.</p>
Alternative Flow :	
Exception Flow:	The user is not logged in to the social network or the post does not exist or has been deleted.
Business Rules:	

3.5.2.2. Create Comment (UC-15)

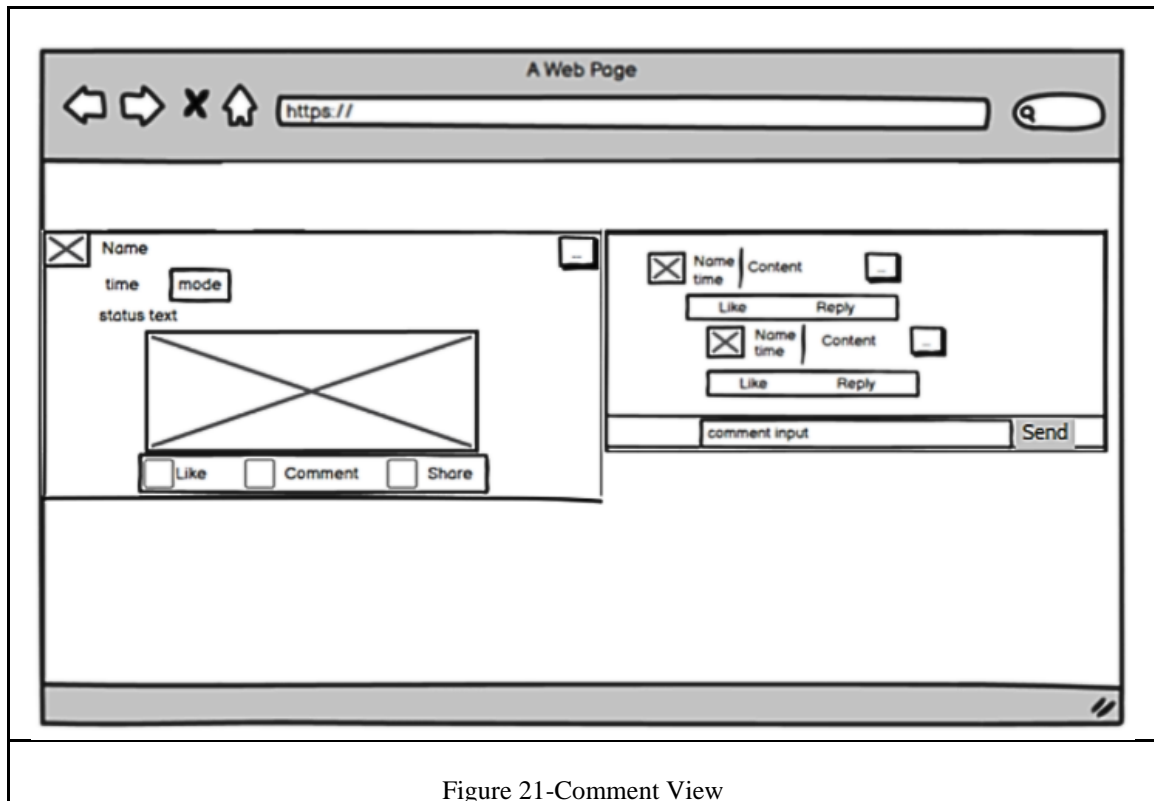


Figure 21-Comment View

Use Case ID:	UC-15	Use Case Name:	Create Comment
Created By:	Nguyen Duy Khanh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The commenting function on social networking platforms allows users to engage in conversations, share their thoughts, and provide feedback on shared content. By leveraging the commenting feature, users can actively participate in discussions, express their opinions, and foster connections within the online community.		
Priority:	Medium		
Trigger:	User can click "Post" button on post creation bar.		
Preconditions:	The user already has an account of the social network and post is existed.		
Post - Conditions:	User comments are saved on the system and displayed on the comment view.		

Basic Flow:	<p>The user accesses the comment section associated with a post on the social networking platform.</p> <p>They enter their comment in a designated text box or comment dialog and can add images.</p> <p>Users have the freedom to express their thoughts, provide feedback, or engage in discussions related to the post.</p> <p>After composing their comment, the user submits it by pressing the "Send" button or a similar option.</p> <p>The system processes and associates the comment with the specific post.</p> <p>The comment becomes visible to others who view the post, allowing them to read and interact with it.</p> <p>Depending on the post's privacy settings, the comment may be visible to the user's friends, the wider network, or a selected audience.</p>
Alternative Flow :	
Exception Flow:	The user is not logged in to the social network or the post does not exist or has been deleted.
Business Rules:	

3.5.2.3. Update Comment (UC-16)

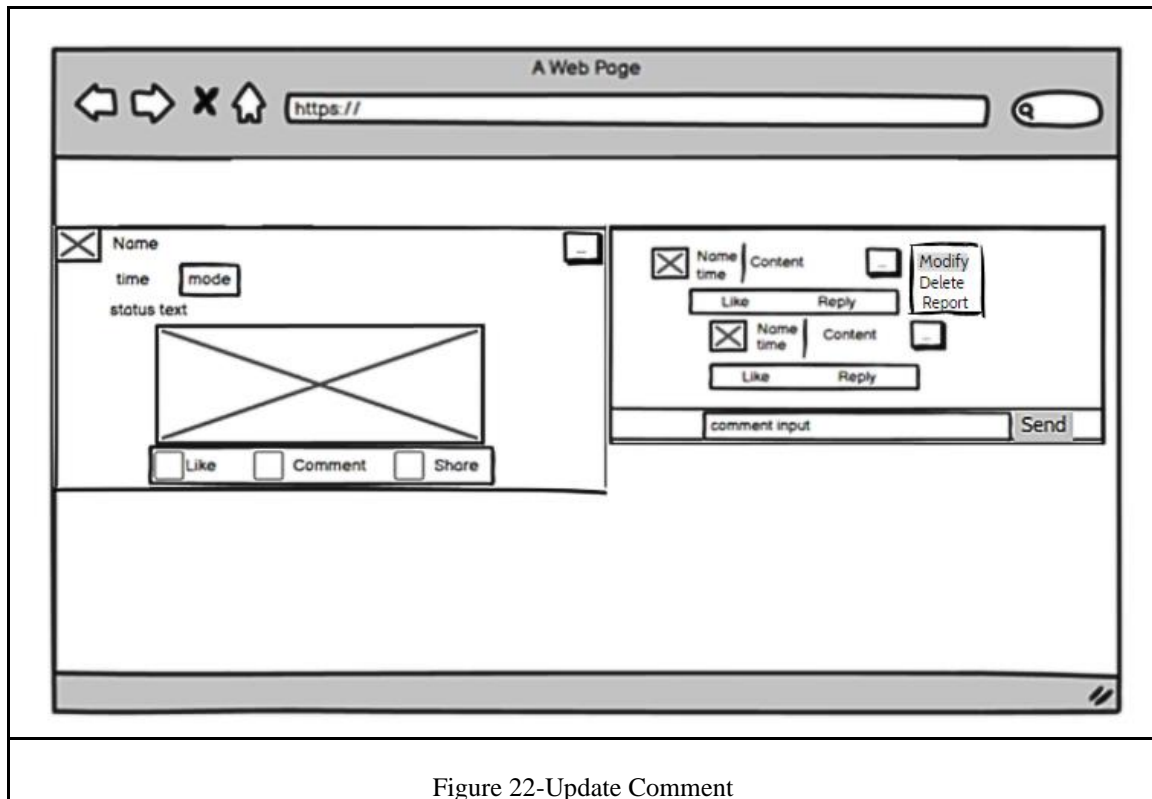


Figure 22-Update Comment

Use Case ID:	UC-16	Use Case Name:	Modify Comment
Created By:	Nguyen Duy Khanh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The editing feature on social networking platforms allows users to modify and refine their existing comments, ensuring accuracy and relevance. This functionality empowers users to update their thoughts, provide additional context, or make necessary revisions to their shared comments. By enabling comment modification, users can actively participate in discussions, contribute valuable insights, and enhance the overall quality of conversations.		
Priority:	Medium		
Trigger:	Users can click the "Modify" option in the options on the right corner of the comment.		
Preconditions:	The user already has an account of the social network and post is existed.		
Post - Conditions:	The user's comment is updated on the system and the edited user element is updated on the post.		

Basic Flow:	<p>The user accesses the comment they wish to edit on the social networking platform.</p> <p>They can modify the existing content by editing the text or adding additional information.</p> <p>After making the desired changes, the user saves the edited comment.</p> <p>The system updates the comment with the edited content, including any modifications made to the text.</p> <p>The system may reanalyze the comment to ensure it complies with privacy rules and content guidelines.</p> <p>The edited comment is displayed within the comment section of the post, allowing others to view and interact with the updated content.</p>
Alternative Flow :	
Exception Flow:	The user is not logged in to the social network or the post does not exist or has been deleted.
Business Rules:	

3.5.2.4. Delete Comment (UC-17)

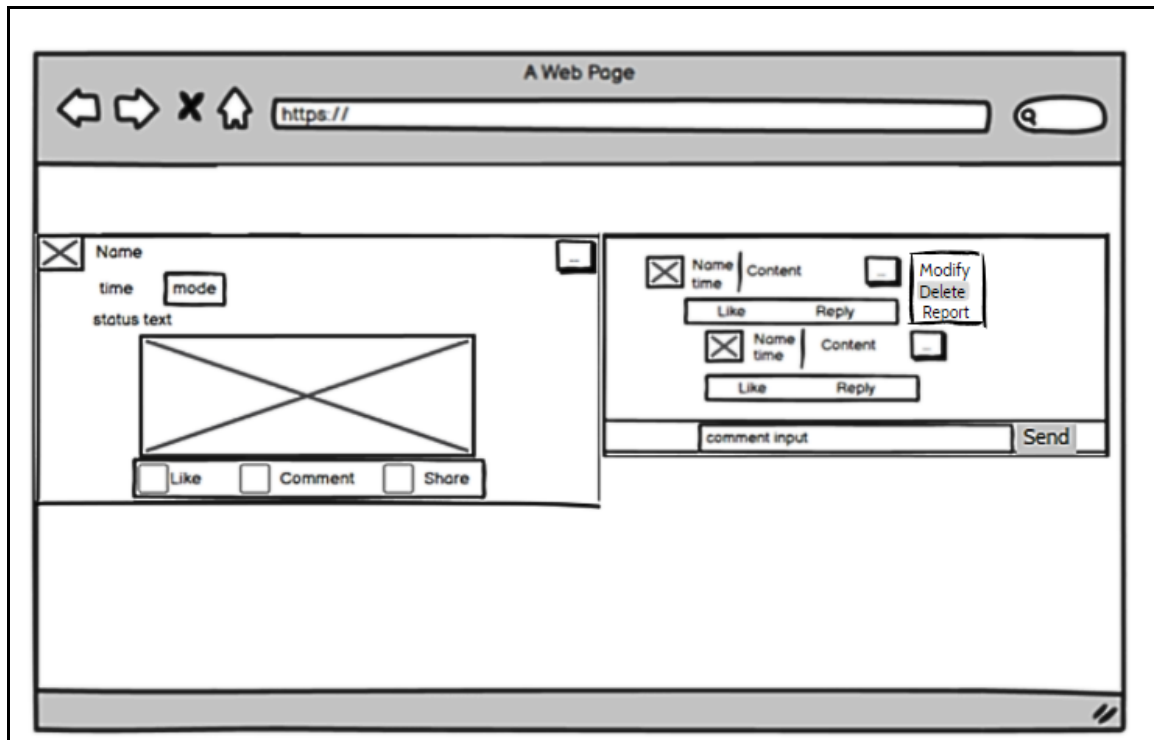


Figure 23-Delete Comment

Use Case ID:	UC-17	Use Case Name:	Delete Comment
Created By:	Nguyen Duy Khanh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The ability to delete comments on social networking platforms provides users with the option to remove their previously posted content. This feature ensures control over shared information and allows users to manage their online presence effectively. By being able to delete comments, users can maintain the accuracy and relevance of their expressed opinions, as well as ensure the privacy of their personal information.		
Priority:	Medium		
Trigger:	Users can click the "Delete" option in the options on the right corner of the comments.		
Preconditions:	The user already has an account of the social network and posts exist.		
Post - Conditions:	User comments are deleted from the system and are no longer visible in posts.		
Basic Flow:	<p>The user selects the comment they want to delete on the social networking platform.</p> <p>They access the comment settings or options to initiate the deletion process.</p> <p>After confirming their intent to delete, the system verifies their authorization and permissions.</p> <p>The system proceeds to delete the comment from the server of the social networking platform.</p> <p>The deleted comment is permanently removed and no longer visible to others.</p> <p>The comment section is updated to reflect the removal of the comment, ensuring it is effectively deleted from the online conversation.</p>		
Alternative Flow :			
Exception Flow:	The user is not logged in to the social network or the post does not exist or has been deleted.		
Business Rules:			

3.6 Social Interactions

3.6.1 Description

Social Interactions is a module within the system that enables users to connect, communicate, and engage with each other. It includes features such as adding friends, messaging, managing friend lists, and expressing reactions to posts and messages. Social Interactions is of medium priority as it plays a crucial role in fostering social connections, facilitating user discussions, and promoting community engagement within the platform.

3.6.2 Functional requirements

3.6.2.1. Add Friend (UC-20)

Figure 24-Add Friend

Use Case ID:	UC-20	Use Case Name:	Add Friend
Created By:	Nguyen Anh Việt	Date Created:	10/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	Connecting with others on social media is a common and important activity for building relationships and expanding one's online social network. When friending people on social media, users can search, connect, and communicate with others who share similar interests, concerns, or common goals.		
Priority:	High		
Trigger:	Users can click the "Add friend" button in the bar user of user		
Preconditions:	The user must be logged in to the system and the person you want to add friend to is still not your friend.		
Post - Conditions:	Alert “request friend successful” and "Add friend" button will become “Sent Requested”		
Basic Flow:	<p>Access the user's profile: Navigate to the social media platform or application and find the profile of the person you want to add as a friend.</p> <p>Send a friend request: Once you are on their profile, look for an option or button that allows you to send a friend request.</p> <p>Wait for confirmation: After sending the friend request, the person will receive a notification or message informing them of your request.</p>		
Alternative Flow :			
Exception Flow:	In case you are already friends or there is a system error or network disconnection during the process, it may cause disruptions in adding friends..		
Business Rules:			

3.6.2.2. Accept Friend Request (UC-21)

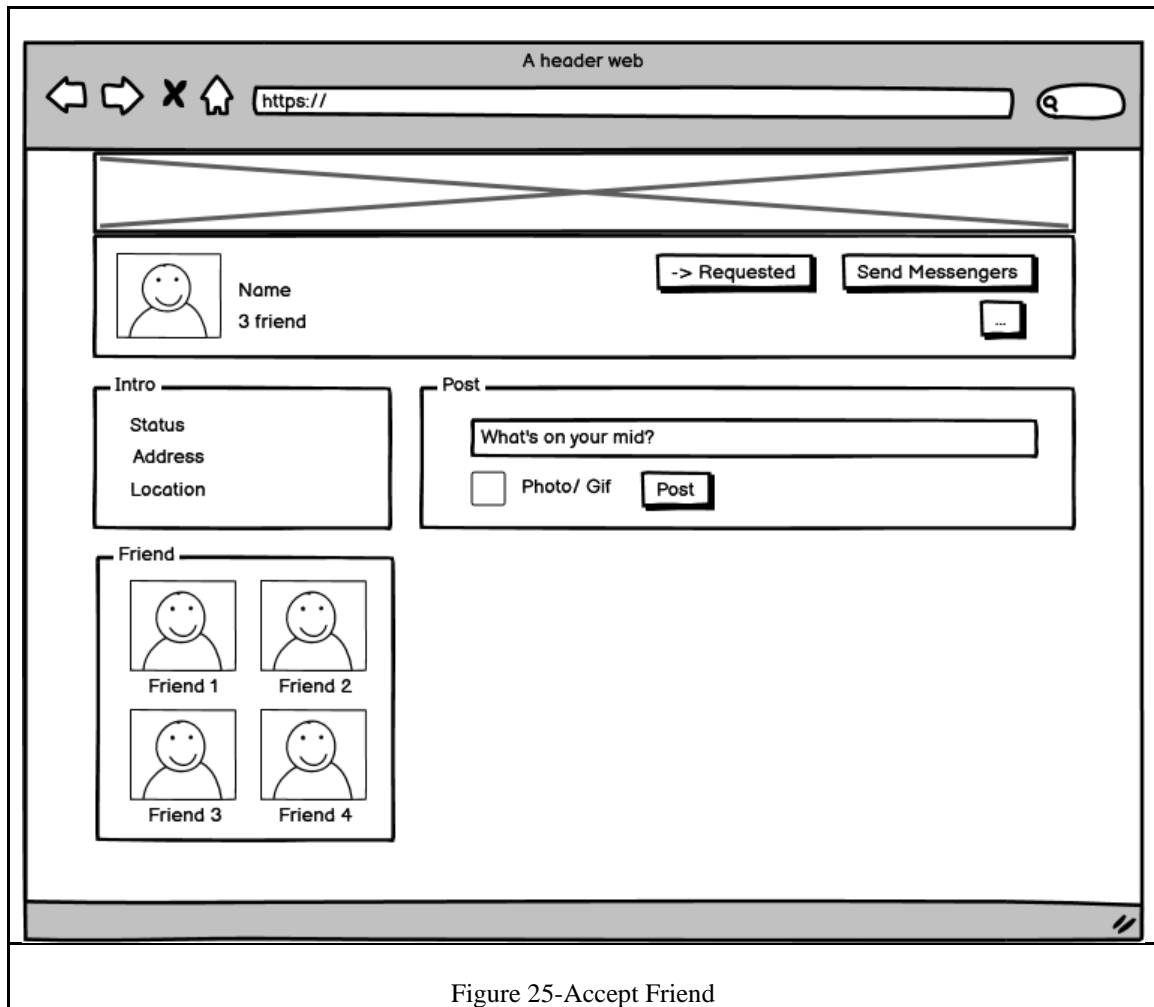


Figure 25-Accept Friend

Use Case ID:	UC-211	Use Case Name:	Accept Friend Request
Created By:	Nguyễn Anh Việt	Date Created:	10/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The "Accept Friend Request" function in a social network allows users to confirm and accept friend requests from others. This is an important part of building an online social network and expanding personal relationships.		
Priority:	High		

Trigger:	Users can click the “Requested” button in the bar user of user
Preconditions:	The user must be logged in to the system and the person you want to add friend to is still not your friend.
Post - Conditions:	Alert “Accept SuccessfullSuccessfull” and "Requested" button will become “Friend”
Basic Flow:	<p>Access the user's profile: Navigate to the social media platform or application and find the profile of the person you want to add as a friend.</p> <p>Accept the Request: If you wish to accept the friend request, look for an "Accept," "Confirm," or similar button associated with the request.</p>
Alternative Flow :	
Exception Flow:	In case you are already friends or there is a system error or network disconnection during the process, it may cause disruptions in adding friends..
Business Rules:	

3.6.2.3. Unfriend (UC-22)

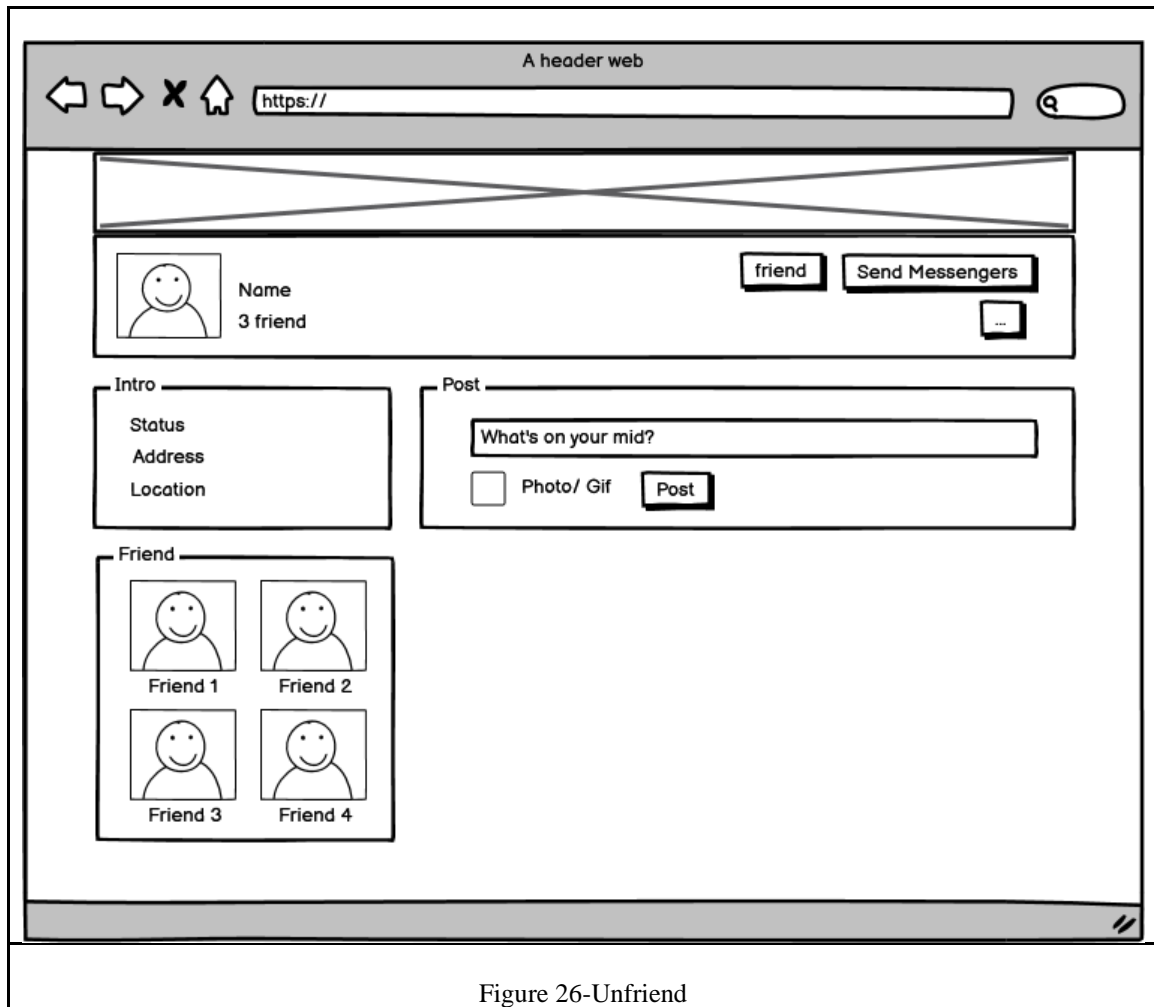


Figure 26-Unfriend

Use Case ID:	UC-22	Use Case Name:	Unfriend
Created By:	Nguyen Duy Khánh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	"Unfriend a friend" is a function in a social networking system that allows a user to unconnect with a friend in his or her friends list. This functionality provides users with the ability to manage and regulate friendships on the platform.		
Priority:	Medium		

Trigger:	The user clicks the "friend" button on the profile page of the user you want to unfriend.
Preconditions:	The user must be logged in to the system and have a relationship with the person who wants to unfriend.
Post - Conditions:	The person who unfriended the person who was successfully unfriended.
Basic Flow:	<ol style="list-style-type: none"> 1. "Unfriend" is a feature on social media platforms. 2. It allows users to disconnect from a friend on their friends' list. 3. The feature provides a user-friendly interface for performing the unfriending action. 4. Users can select a specific friend to sever the connection with. 5. The selected friend will be removed from the user's friends' list. 6. After unfriending, the severed connection will no longer be considered within the system. 7. The "Unfriend" feature empowers users to manage and adjust their social connections. 8. It enables users to curate a network of friends that aligns with their preferences. 9. Users can exercise control over their relationships and ensure privacy on the platform.
Alternative Flow:	
Exception Flow:	The user is not logged in to the social network
Business Rules:	

3.6.2.4. View Friend List (UC-23)

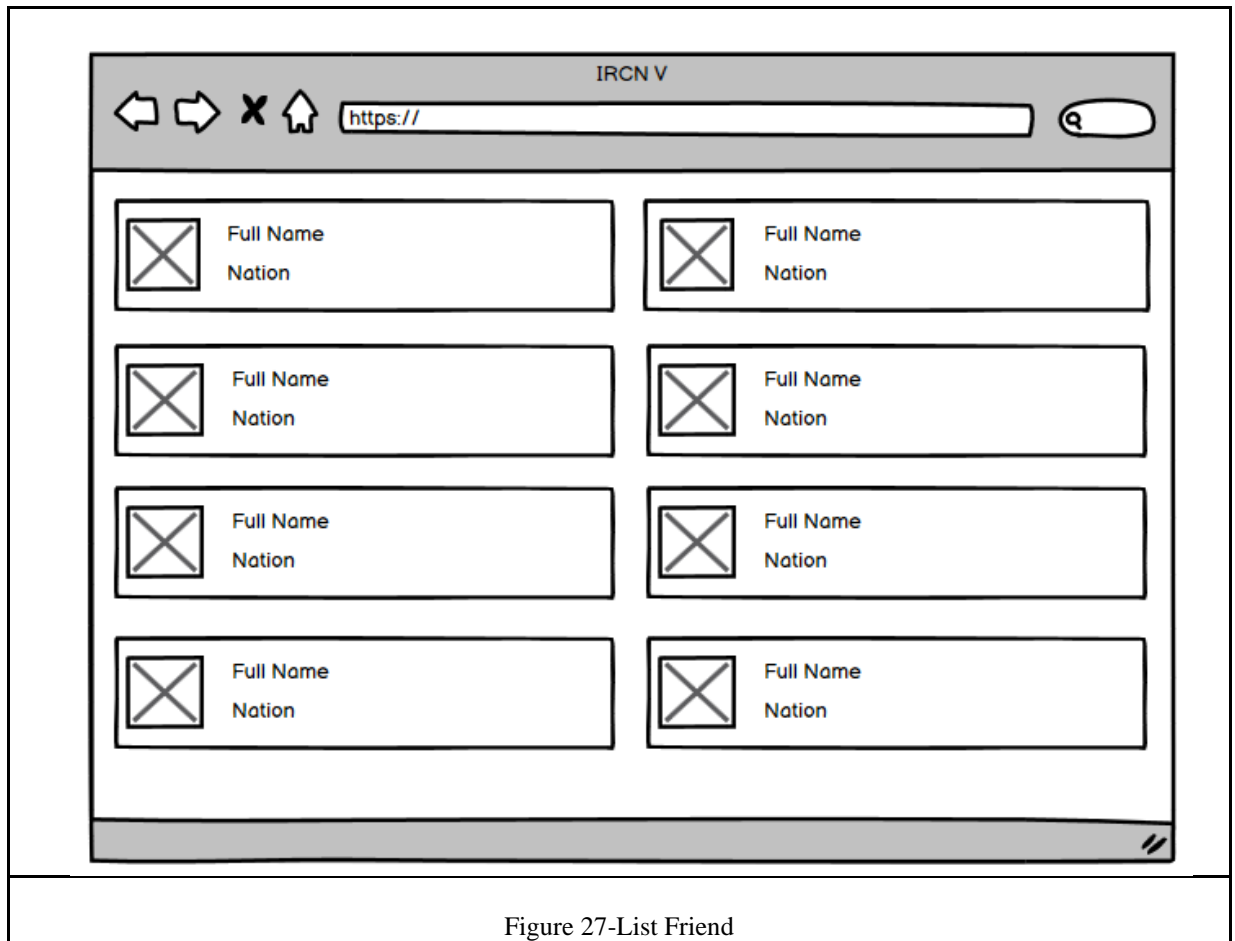


Figure 27-List Friend

Use Case ID:	UC-23	Use Case Name:	View Friend List
Created By:	Nguyen Duy Khánh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	"View Friends List" is a feature in the system that allows users to view a list of their connected friends on the platform. This feature provides a user-friendly interface for users to access and manage their friends' list.		
Priority:	Medium		
Trigger:	The user clicks the "Friend" button on the user's homepage or shows "All Friend" on the user's profile page.		
Preconditions:	The user must be logged into the system		

Post - Conditions:	The user's friend list page is displayed including the user's friends.
Basic Flow:	<ol style="list-style-type: none"> 1. "Display Friends List" is a feature on the social networking platform. 2. It allows users to view a list of their connected friends. 3. The feature provides a user-friendly interface for managing social connections. 4. Users can access detailed information about each friend. 5. This information may include profile pictures, online statuses, and other relevant details. 6. The feature enhances communication and fosters interaction within the user community.
Alternative Flow:	
Exception Flow:	The user is not logged in to the social network
Business Rules:	

3.6.2.5. Send Message (UC-24)

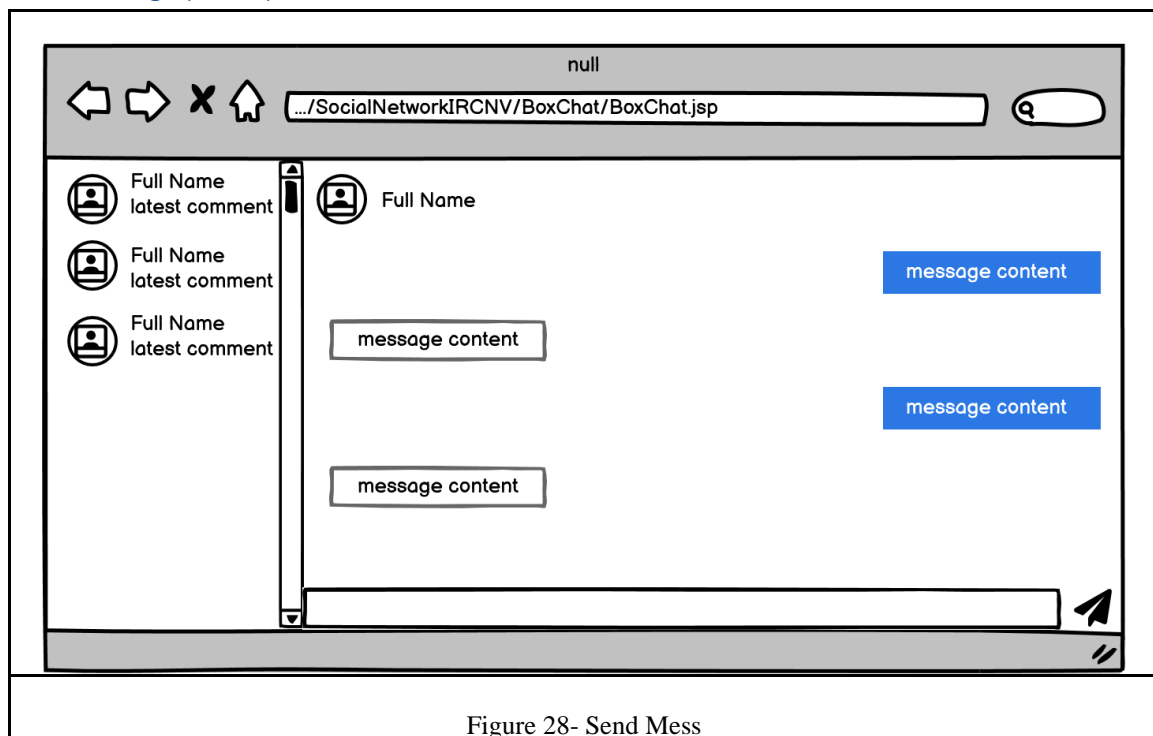


Figure 28- Send Mess

Use Case ID:	UC-24	Use Case Name:	Send Message
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Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The Send Message use case describes the process by which a user sends a message to another user within the system. This use case enables users to initiate private conversations, engage in direct communication, and share information with others.		
Priority:	Medium		
Trigger:	The user clicks on the "Send Message" button on another user's profile page or when they click on the chat icon in the header to access the messaging feature.		
Preconditions:	The user must be logged into the system		
Post - Conditions:	<p>The message is successfully sent to the recipient(s).</p> <p>The recipient(s) receive the message in their chatBox</p>		
Basic Flow:	<ol style="list-style-type: none"> 1) The user navigates to the profile page of the recipient or clicks on the chat icon in the header. 2) The system displays the messaging interface. 3) The user composes the message 4) The user clicks on the icon “paper plane” button to send the message. 5) The system validates the recipient(s) and the message content. 6) The system sends the message to the intended recipient(s). 7) The recipient(s) receive the message in their chatBox 		
Alternative Flow:			
Exception Flow:			
Business Rules:			

3.6.2.6. Delete Message (UC-25)

3.6.2.7. View Message (UC-26)

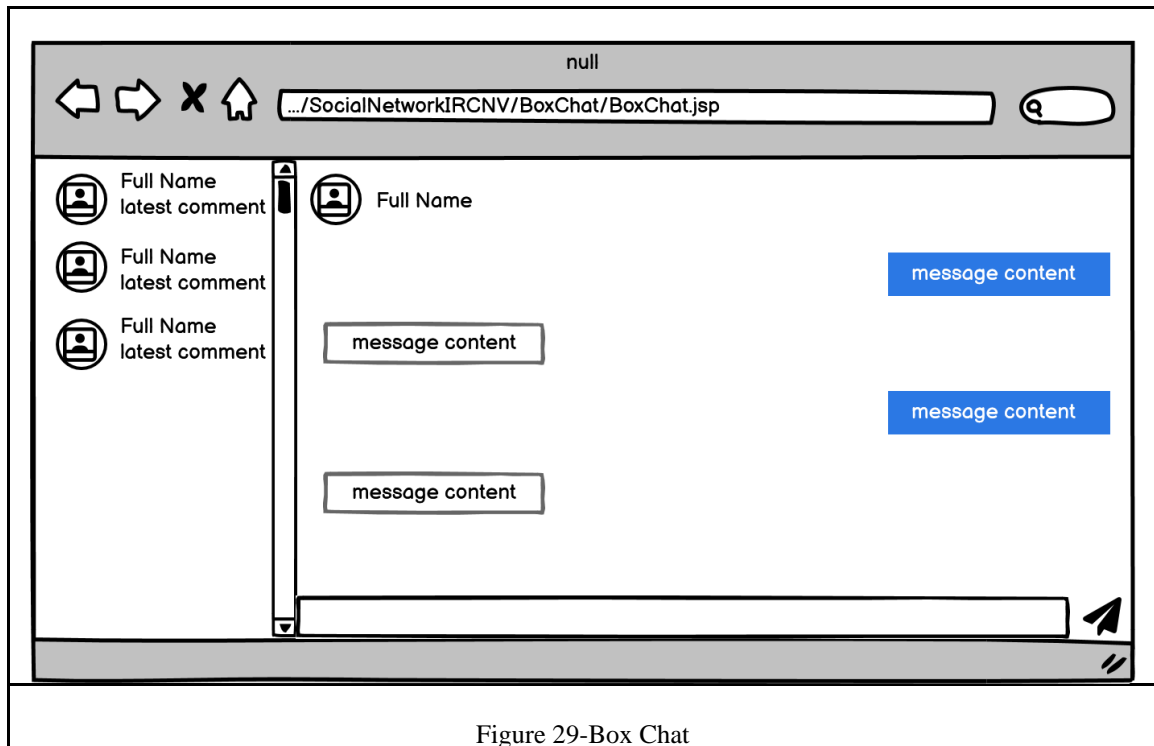


Figure 29-Box Chat

Use Case ID:	UC-26	Use Case Name:	View Message
Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The View Message use case describes the process by which a user views a received message within the system. This use case enables users to access their message chatBox to read and interact with messages they have received.		
Priority:	Medium		
Trigger:	The user clicks on the "Send Message" button on another user's profile page or when they click on the chat icon in the header to access the messaging feature.		
Preconditions:	The user must be logged into the system		
Post - Conditions:	The user has successfully viewed the message. The message status may be updated (e.g., marked as read).		
Basic Flow:	1) The user accesses the messaging feature within the system.		

	2) The user navigates to their message 3) The system displays a list of friend and they lastest messages 4) The user selects the a friend from the list. 5) The user reads the message content 6) The user can interact with friend by send a message
Alternative Flow:	
Exception Flow:	
Business Rules:	

3.7 Create Brand (UC-40)

3.7.1 *Description*

Social branding is an important feature that helps users build and manage their brands on social media platforms. Social branding allows users to customize their personal profile. Additionally, the branding functionality provides users with tools to create ads based on their brand.

3.7.2 Functional requirements

3.7.2.1. Create Brand (UC-40)

IRC N V

https://CreateBrand

Create Your Brand

Brand Name:

Address:

Mail:

Phone:

Intro:

Avatar:

Choose file

Save change Close

Figure 40-Create Brand

Use Case ID:	UC-40	Use Case Name:	Create Brand
Created By:	Nguyen Anh Viet	Date Created:	07/07/2023

Primary Actor:	User	Secondary Actor:	
Description:	The brand-building function in social media is a feature that helps users build and manage their brand on the social media platform. It provides users with tools and resources to create and shape brand elements such as logo, intro, email, phone, address. The brand-building function also offers tools for users to create advertisements based on their brand.		
Priority:	Low		
Trigger:	Users click on the “Advertisement” button		
Preconditions:	The user must be logged into the system		
Post - Conditions:	Users create successful businesses. And able to post advertisements.		
Basic Flow:	<ol style="list-style-type: none"> 1) Access to HomePage page 2) User click the “Advertisement” button 3) Enter information 4) Confirm to create new Brand 		
Alternative Flow :			
Exception Flow:			
Business Rules:			

3.8 Reporting and Management

3.8.1 Description

Reporting and Management is a module within the system that focuses on handling user reports, managing user accounts, and providing administrative functionalities. It encompasses functionalities related to user reporting, account management, and administrative tasks. Reporting and Management is of medium priority as it plays a crucial role in maintaining a safe and controlled environment, ensuring user compliance with community guidelines, and facilitating efficient platform management.

3.8.2 Functional requirements

3.8.2.1. Report User (UC-27)

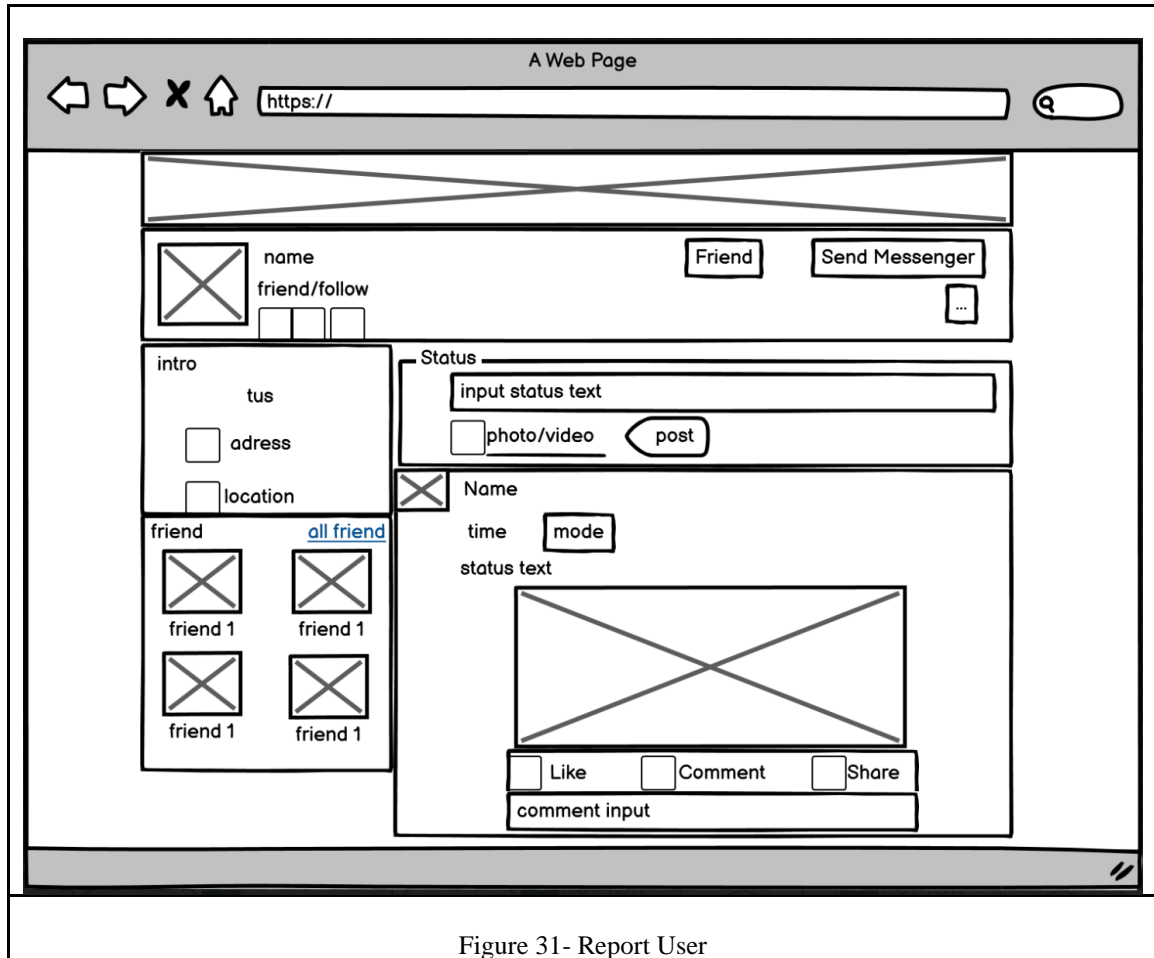


Figure 31- Report User

Use Case ID:	UC-27	Use Case Name:	Report User
Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The Report User use case describes the process by which a user reports another user for inappropriate behavior, harassment, or violation of community guidelines. This use case enables users to flag problematic users, allowing administrators to review and take appropriate action.		
Priority:	Low		
Trigger:	Users click on the “...” button		

Preconditions:	The user must be logged into the system
Post - Conditions:	The reported user is flagged for review by the system administrators.
Basic Flow:	5) The user identifies the user they want to report. 6) The user navigates to the user's profile 7) The user clicks on the "... " button. 8) The system acknowledges the user's report and flags the reported user for review by the administrators.
Alternative Flow :	
Exception Flow:	
Business Rules:	

3.8.2.2. Report Post (UC-28)

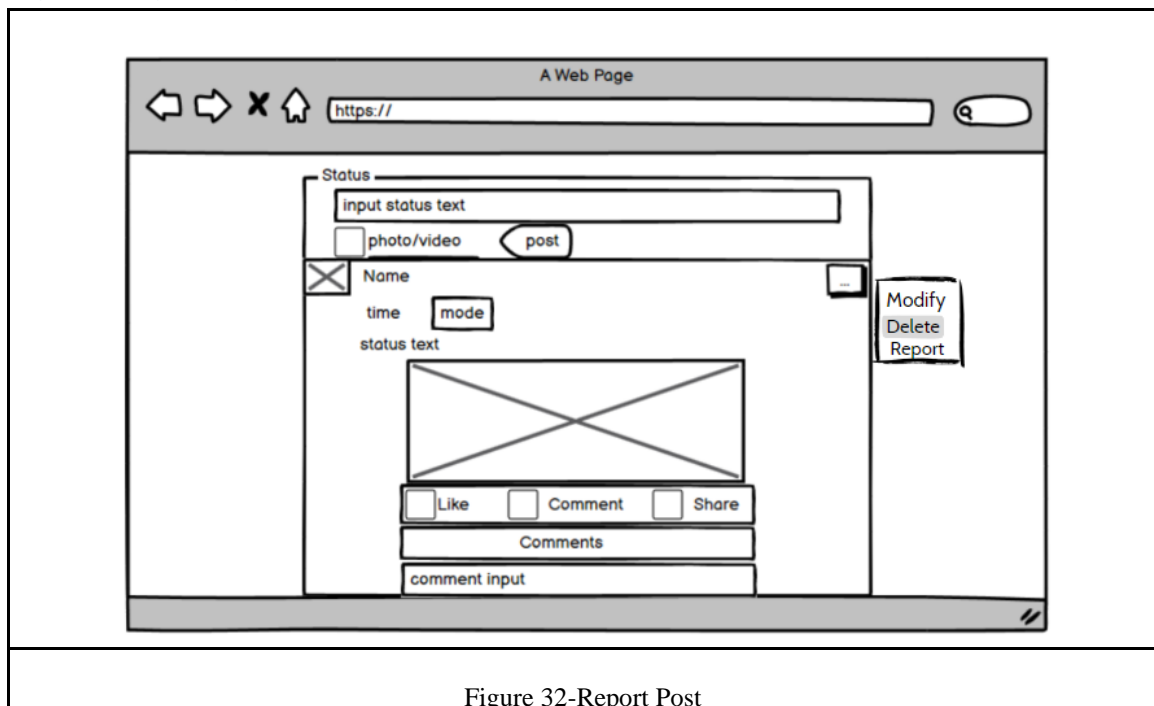


Figure 32-Report Post

Use Case ID:	UC-28	Use Case Name:	Report Post
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Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The Report Post use case describes the process by which a user reports a post that violates the platform's guidelines or contains inappropriate content. This use case enables users to flag posts that they find offensive, harmful, or in violation of community standards, allowing administrators to review and take appropriate action.		
Priority:	Low		
Trigger:	Users click the "Report" option in the options on the top right corner of the post.		
Preconditions:	The user already has an account of the social network.		
Post - Conditions:	The reported post is flagged for review by the system administrators.		
Basic Flow:	9) The user navigates to the post that they want to report. 10) Users click the "Report" option in the options on the top right corner of the post. 11) The system acknowledges the user's report and flags the post for review by the administrators.		
Alternative Flow :			
Exception Flow:			
Business Rules:	BR-09		

3.8.2.3. Report Comment (UC-29)

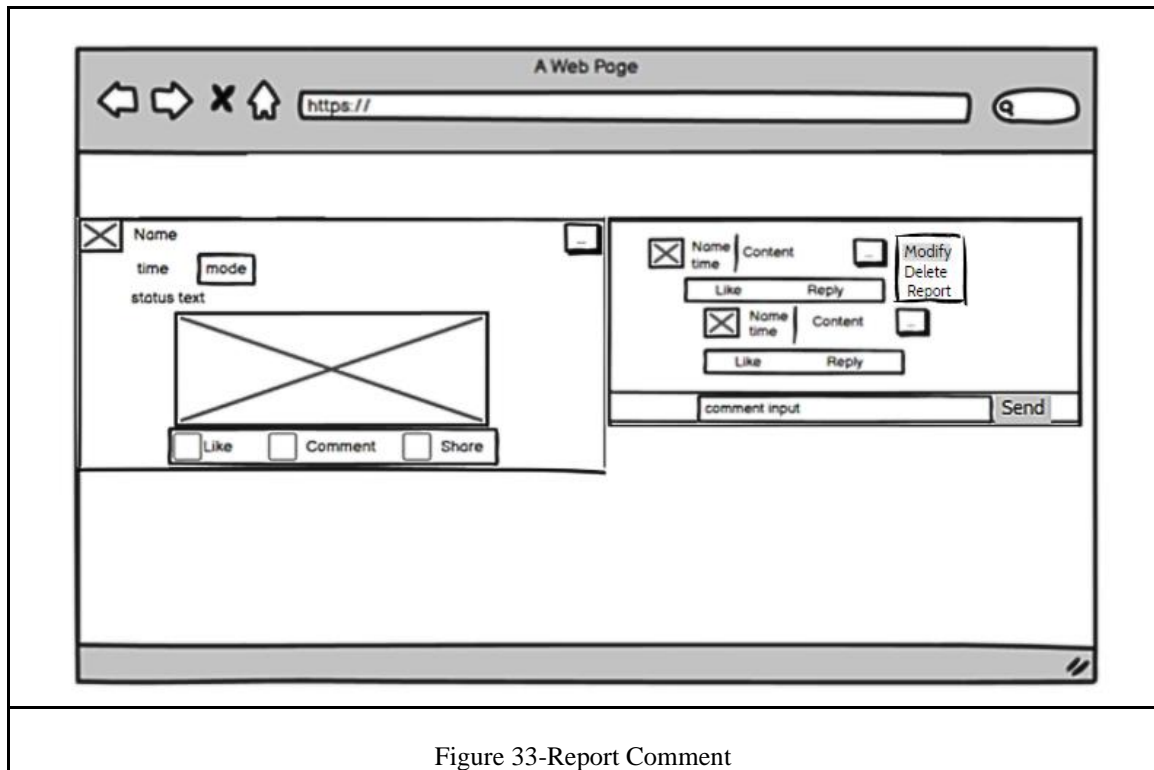
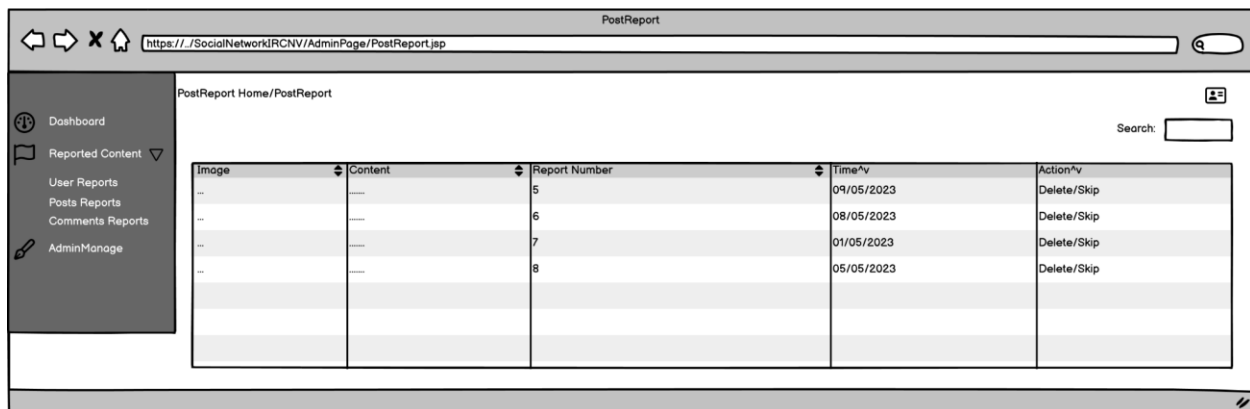


Figure 33-Report Comment

Use Case ID:	UC-29	Use Case Name:	Report Comment
Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	User	Secondary Actor:	
Description:	The Report Comment use case describes the process by which a user reports a comment that violates the platform's guidelines or contains inappropriate content. This use case enables users to flag comments that they find offensive, harmful, or in violation of community standards, allowing administrators to review and take appropriate action.		
Priority:	Low		
Trigger:	Users can click the "Modify" option in the options on the right corner of the comment.		
Preconditions:	The user already has an account of the social network and post is existed.		
Post - Conditions:	The reported comment is flagged for review by the system administrators.		

Basic Flow:	<ol style="list-style-type: none"> 1) The user navigates to the comment that they want to report. 2) Users click the "Report" option in the options on the top right corner. 3) The system acknowledges the user's report and flags the Comment for review by the administrators.
Alternative Flow :	
Exception Flow:	
Business Rules:	BR-09

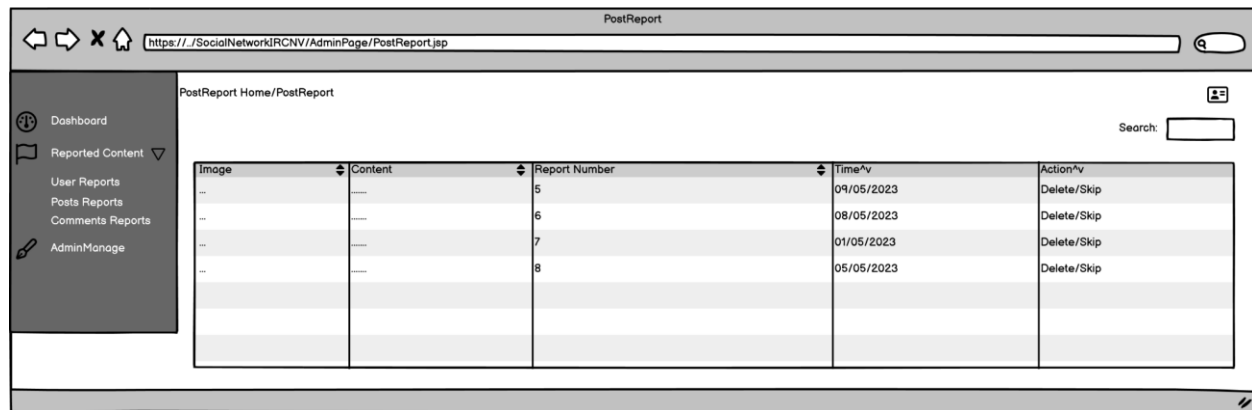
3.8.2.4. View Post Report(UC-41)



Use Case ID:	UC-41	Use Case Name:	View Post Report
Created By:	Nguyen Hong Linh	Date Created:	14/07/2023
Primary Actor:	Admin, Master Admin	Secondary Actor:	
Description:	The View Post Report use case describes the process by which an administrator views a list post report within the system.		
Priority:	Medium		
Trigger:	Administrator clicks on the "ReportContent" and choose "PostReport" from Admin panel		
Preconditions:	The administrator must be logged into the system.		

	The administrator must have the necessary privileges and permissions to view post report
Post - Conditions:	Administrator can view a list post report
Basic Flow:	<ol style="list-style-type: none"> 1) The administrator accesses the administrative panel or moderation interface within the system. 2) The administrator selects the option to report content. 3) From the menu, the administrator chooses "Post Report" 4) The system presents a list of reported post
Alternative Flow:	
Exception Flow:	If there are any issues or errors while the system presents a list of reported post, such as network failures or system errors, the system displays a wait page.
Business Rules:	

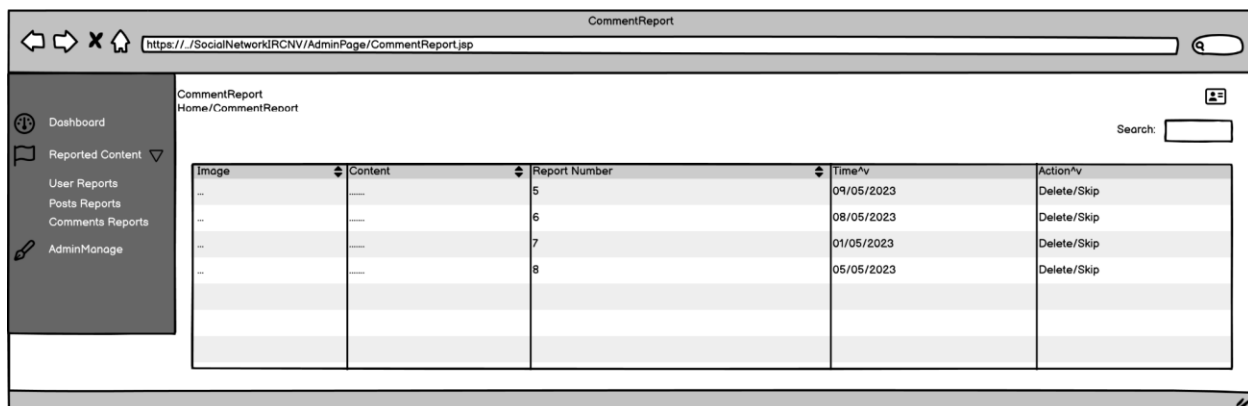
3.8.2.5. Delete Post Report(UC-42)



Use Case ID:	UC-42	Use Case Name:	Delete Post Report
Created By:	Nguyen Duy Khanh, Nguyen Hong Linh	Date Created:	10/07/2023
Primary Actor:	Admin, Master Admin	Secondary Actor:	
Description:	The Delete Port Report use case describes the process by which an administrator deletes a port report from the system. This use case enables administrators to permanently remove port reports for various reasons, such as outdated information, duplicate entries, or data privacy considerations.		
Priority:	Medium		

Trigger:	Administrator clicks on the “Delete” Link in PostReport Page
Preconditions:	The administrator must be logged into the system. The administrator must have the necessary privileges and permissions to delete posts
Post - Conditions:	Administrator received "Thành công" message after deleted post.
Basic Flow:	<ol style="list-style-type: none"> 1) The administrator accesses the administrative panel or moderation interface within the system. 2) The administrator selects the option to delete a port report. 3) From the menu, the administrator chooses "Port Report" or a similar option. 4) The system presents a list of port reports or a search interface to find the report to be deleted. 5) The administrator selects the port report from the list or searches for the specific report. 6) The system confirms the selection and prompts the administrator to confirm the deletion. 7) The administrator clicks on the "Delete" or "Confirm" button to proceed with the deletion. 8) The system deletes the port report, removing it from the system permanently.
Alternative Flow:	
Exception Flow:	Suppose there is any problem or error during the post-deletion process, such as a network or system error. In that case, the system will display the appropriate error message and allow the administrator to try deleting the post again.
Business Rules:	

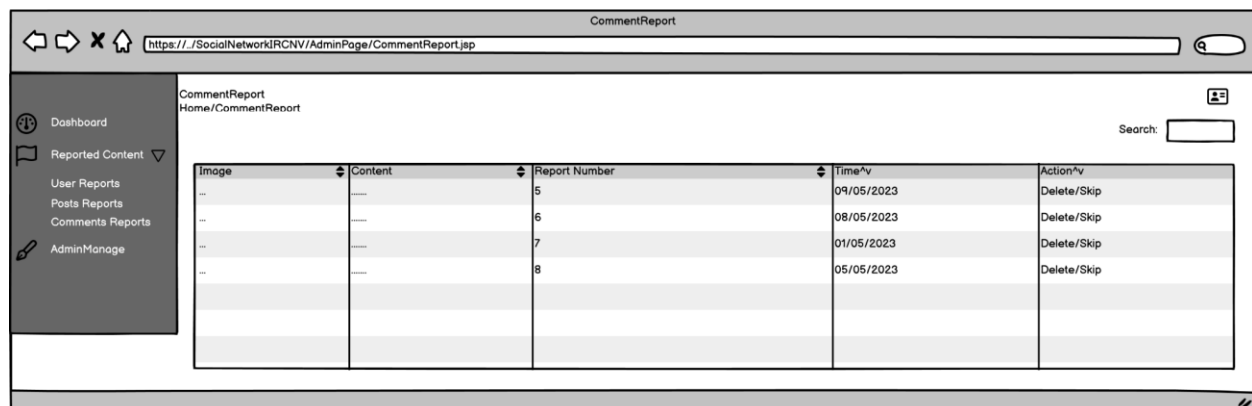
3.8.2.6. View Comment Report(UC-43)



Use Case ID:	UC-43	Use Case Name:	View Comment Report
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Created By:	Nguyen Hong Linh	Date Created:	14/07/2023
Primary Actor:	Admin, Master Admin	Secondary Actor:	
Description:	The View Comment Report use case describes the process by which an administrator views a list comment report within the system.		
Priority:	Medium		
Trigger:	Administrator clicks on the "ReportContent" and choose "CommentReport" from Admin panel		
Preconditions:	<p>The administrator must be logged into the system.</p> <p>The administrator must have the necessary privileges and permissions to view comment report</p>		
Post - Conditions:	Administrator can view a list comment report		
Basic Flow:	<p>5) The administrator accesses the administrative panel or moderation interface within the system.</p> <p>6) The administrator selects the option to report content.</p> <p>7) From the menu, the administrator chooses "Comment Report"</p> <p>8) The system presents a list of reported comment</p>		
Alternative Flow:			
Exception Flow:	If there are any issues or errors while the system presents a list of reported comments, such as network failures or system errors, the system displays a wait page.		
Business Rules:			

3.8.2.7. Delete Comment Report(UC-44)



Use Case ID:	UC-44	Use Case Name:	Delete Comment Report
Created By:	Nguyen Duy Khanh, Nguyen Hong linh	Date Created:	10/07/2023
Primary Actor:	Admin, Master Admin	Secondary Actor:	
Description:	The Delete Comment Report use case describes the process by which an administrator deletes a comment report from the system. This use case enables administrators to permanently remove comment reports for various reasons, such as inappropriate content, spam, or policy violations. The deletion of comment reports helps maintain the integrity and quality of user-generated content within the system.		
Priority:	Medium		
Trigger:	Administrator clicks on the "Delete" Link in CommentReport Page		
Preconditions:	<p>The administrator must be logged into the system.</p> <p>The administrator must have the necessary privileges and permissions to delete comments.</p>		
Post - Conditions:	Administrator received "Thành công" message after deleted comment		
Basic Flow:	<p>The administrator accesses the administrative panel or moderation interface within the system.</p> <p>The administrator selects the option to delete a comment report.</p> <p>From the menu, the administrator chooses "Comment Report" or a similar option.</p> <p>The system presents a list of comment reports or a search interface to find the report to be deleted.</p> <p>The administrator selects the comment report from the list or searches for the specific report.</p> <p>The system confirms the selection and prompts the administrator to confirm the deletion.</p> <p>The administrator clicks on the "Delete" or "Confirm" button to proceed with the deletion.</p> <p>The system deletes the comment report, removing it from the system permanently.</p>		
Alternative Flow:			
Exception Flow:	Suppose there is any problem or error during comment deletion, such as a network or system error. In that case, the system will display the appropriate error message and allow the administrator to try deleting the comment again.		
Business Rules:			

3.8.2.8. View User Report(UC-45)

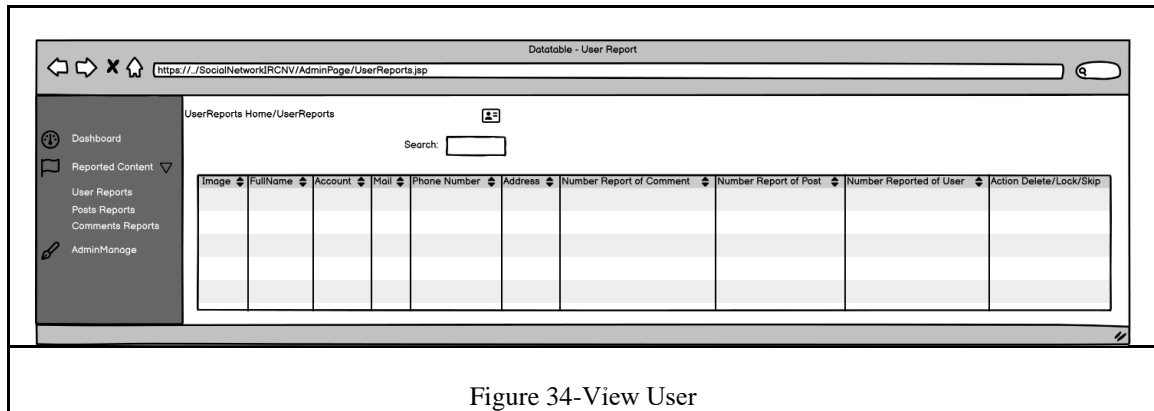


Figure 34-View User

Use Case ID:	UC-45	Use Case Name:	View User Report
Created By:	Nguyen Hong Linh	Date Created:	14/07/2023
Primary Actor:	Admin, Master Admin	Secondary Actor:	
Description:	The View User Report use case describes the process by which an administrator views a list user's account report within the system.		
Priority:	Medium		
Trigger:	Administrator clicks on the "ReportContent" and choose "UserReport" from Admin panel		
Preconditions:	<p>The administrator must be logged into the system.</p> <p>The administrator must have the necessary privileges and permissions to view users report</p>		
Post - Conditions:	Administrator can view a list report user account		
Basic Flow:	<ol style="list-style-type: none"> 1. The administrator accesses the administrative panel or moderation interface within the system. 2. The administrator selects the option to report content. 3. From the menu, the administrator chooses "User Report" 4. The system presents a list of reported users 		
Alternative Flow:			

Exception Flow:	If there are any issues or errors while the system presents a list of reported users, such as network failures or system errors, the system displays a wait page.
Business Rules:	

3.8.2.9. Lock User Account (UC-30)

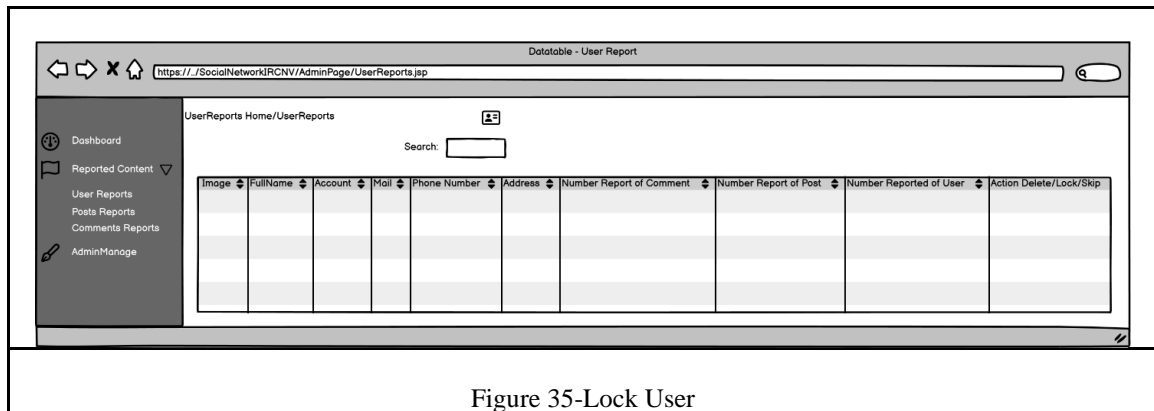


Figure 35-Lock User

Use Case ID:	UC-30	Use Case Name:	Lock User Account
Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	Admin, Master Admin	Secondary Actor:	
Description:	The Lock User Account use case describes the process by which an administrator locks a user's account within the system. This use case enables administrators to restrict user access and prevent further use of the account due to violations, suspicious activities, or other administrative reasons.		
Priority:	Medium		
Trigger:	Administrator clicks on the "Lock" link in User Report Page		
Preconditions:	The administrator must be logged into the system. The administrator must have the necessary privileges and permissions to lock users		
Post - Conditions:	administrator received "Success" message after locking user account		

Basic Flow:	<ol style="list-style-type: none"> 9) The administrator accesses the administrative panel or moderation interface within the system. 10) The administrator selects the option to report content. 11) From the menu, the administrator chooses "User Report" to report a specific user. 12) The system presents a list of reported users or a search interface to find the user to be locked. 13) The administrator selects the user from the list and clicks on the "Lock" link. 14) The system prompts the administrator to enter the duration (number of days, hours, minutes) for which the user's account will be locked. 15) The administrator enters the duration. 16) The administrator clicks on the "Submit" button to lock the user's account for the specified duration. 17) The system locks the user's account, restricting their access to the system for the specified duration.
Alternative Flow:	
Exception Flow:	If there are any issues or errors during the account locking process, such as network failures or system errors, the system displays an appropriate error message and allows the administrator to retry locking the user account.
Business Rules:	BR-10

3.8.2.10. Delete User Account (UC-31)

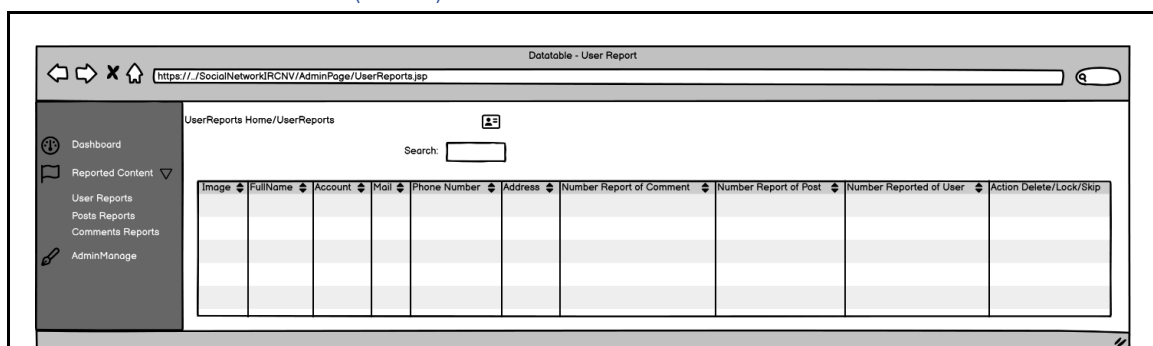


Figure 36-Delete User

Use Case ID:	UC-31	Use Case Name:	Delete User Account
Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	Admin, Master Admin	Secondary Actor:	

Description:	The Delete User Account use case describes the process by which an administrator deletes a user's account from the system. This use case enables administrators to permanently remove user accounts due to various reasons, such as policy violations or user request.
Priority:	Medium
Trigger:	Administrator clicks on the “Delete” Link in UserReport Page
Preconditions:	The administrator must be logged into the system. The administrator must have the necessary privileges and permissions to delete users
Post - Conditions:	Administrator received "Thành công" message after deleted user account
Basic Flow:	<ul style="list-style-type: none"> 9) The administrator accesses the administrative panel or moderation interface within the system. 10) The administrator selects the option to report content. 11) From the menu, the administrator chooses "User Report" to report a specific user. 12) The system presents a list of reported users or a search interface to find the user to be locked. 13) The administrator selects the user from the list and clicks on the "Delete" link. 14) The system delete the user's account, restricting their access to the system for the specified duration.
Alternative Flow:	
Exception Flow:	If there are any issues or errors during the account deletion process, such as network failures or system errors, the system displays an appropriate error message and allows the administrator to retry deleting the user account.
Business Rules:	BR-10

3.8.2.11. View Statistics (UC-32)

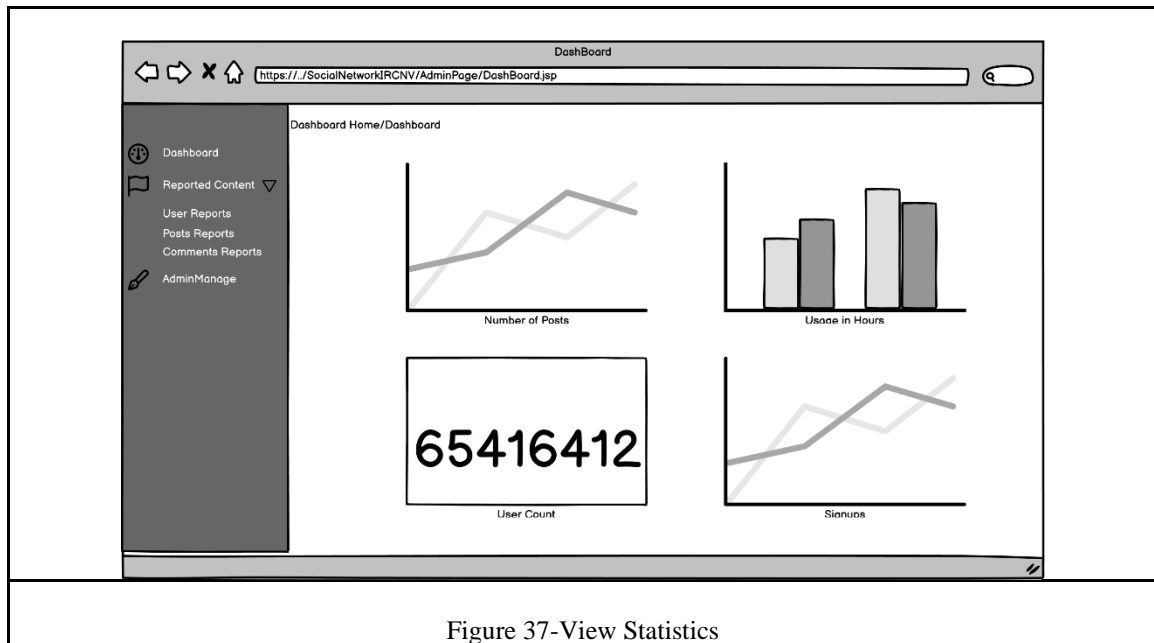


Figure 37-View Statistics

Use Case ID:	UC-32	Use Case Name:	View Statistics
Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	Master Admin	Secondary Actor:	
Description:	The View Statistics use case describes the process by which an administrator or master admin views statistical information and data related to the system's usage and performance. This use case enables administrators to gather insights, track key metrics, and analyze trends to make informed decisions and improve the system.		
Priority:	Low		
Trigger:	The admin or master admin accesses the administrative panel		
Preconditions:	The admin or master admin must be logged into the system.		
Post - Conditions:	The selected user is assigned administrator rights and gains access to administrative functionalities.		
Basic Flow:	<ol style="list-style-type: none"> 1) The admin or master admin accesses the administrative panel 2) The system retrieves and presents various statistical information and data, such as the total number of posts, the overall usage time of all users, the number of accounts created each month, and the current number of active users. 		

Alternative Flow:	<ol style="list-style-type: none"> 1) The admin or master admin accesses the administrative panel 2) Clicks on the "DashBoard" option. 3) The system retrieves and presents various statistical information and data, such as the total number of posts, the overall usage time of all users, the number of accounts created each month, and the current number of active users.
Exception Flow:	
Business Rules:	

3.8.2.12. Grant Admin Rights (UC-33)

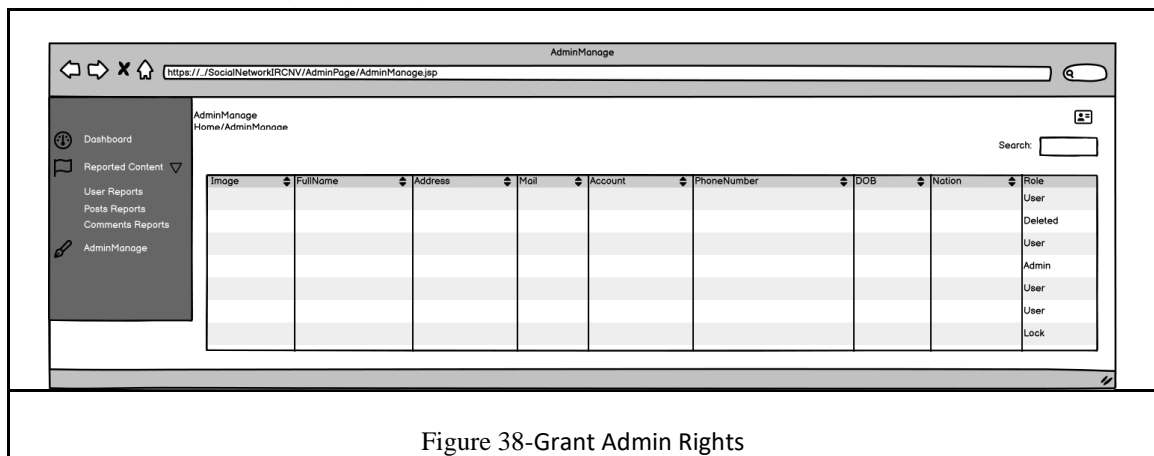


Figure 38-Grant Admin Rights

Use Case ID:	UC-33	Use Case Name:	Grant Admin Rights
Created By:	Nguyen Hong Linh	Date Created:	07/07/2023
Primary Actor:	Master Admin	Secondary Actor:	
Description:	The Grant Admin Rights use case describes the process by which the Master Admin grants administrator rights to a user in the system. This use case enables the Master Admin to delegate administrative privileges to trusted users who can assist in managing the system.		
Priority:	Low		
Trigger:	Administrator clicks on the "AdminManage" option		
Preconditions:	The Master Admin must be logged into the system.		
Post - Conditions:	The selected user is assigned administrator rights and gains access to administrative functionalities.		

Basic Flow:	<ol style="list-style-type: none"> 1) The Master Admin accesses the administrative panel within the system. 2) Administrator clicks on the "AdminManage" option. 3) The Master Admin selects the user to whom they want to grant admin rights or revoke admin rights. 4) The Master Admin locates the option in Row column on this user to grant or revoke admin rights.
Alternative Flow:	
Exception Flow:	
Business Rules:	

3.8.2.13. Revoke Admin Rights (UC-34)

3.9 Advertising Hub

3.9.1 Description

The brand-building function provides users with tools to create advertisements based on their brand. Users can select the ad type, format, content, and images that align with their brand's message and style. This helps increase brand recognition and the ability to make an impact with user advertisements.

3.9.2 Functional requirements

3.9.2.1. Add ADS (UC-35)

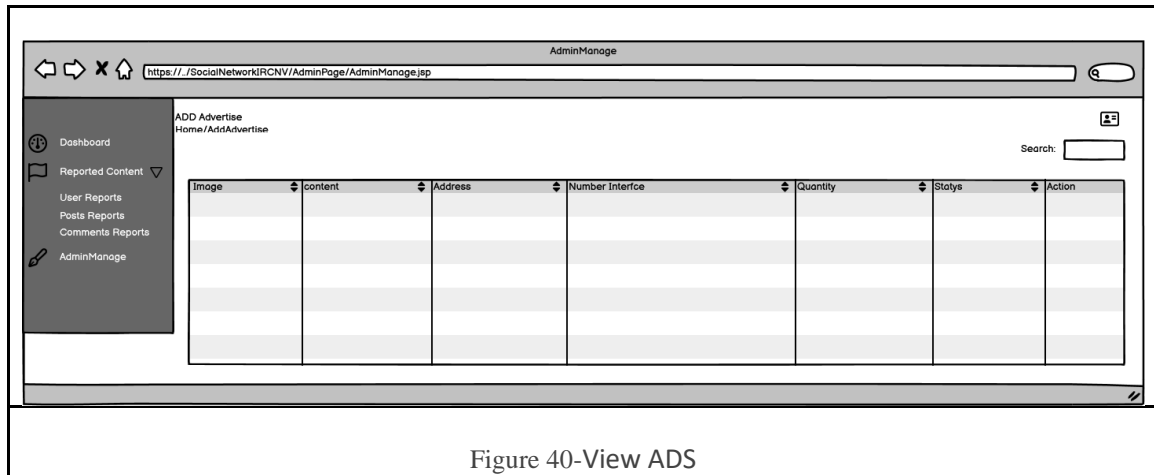
The screenshot shows a web browser window titled "Business Manage" with the URL "https://SocialNetworkIRCNV/Business/ViewAds.jsp". The browser's address bar and navigation buttons are visible. On the left side of the page, there is a dark sidebar menu with the following options: "View Advertise", "Content", "View Advertise", "Add Advertise", "Recharge", and "AdminManage". The "Add Advertise" option is highlighted. The main content area is titled "Add Advertise" and contains a form with the following elements:

- A header "Add Advertise" with a small icon of a person.
- A label "Name Brand" next to a text input field.
- A label "Content advertisement" above a large rectangular area that contains a placeholder image with a large 'X' over it.
- A "Choose file" button located below the placeholder image.
- At the bottom of the form, there are two buttons: "Save changes" and "Close".

Figure 39-Add ADS

Use Case ID:	UC-35	Use Case Name:	Add ADS
Created By:	Nguyen Ho Ngoc An	Date Created:	07/07/2023
Primary Actor:	Business	Secondary Actor:	
Description:	The "Add Ads" function in social networks is a feature that allows users to create and post advertisements on social networking platforms.		
Priority:	Medium		
Trigger:	User clicks on the "Advertisement" option		
Preconditions:	The User must be logged into the system.		
Post - Conditions:	Displaying add ADS successful messages		
Basic Flow:	<ol style="list-style-type: none"> 1) User accesses the "Add ADS" feature on the social network platform. 2) User enters the necessary information for the advertisement, such as content, images,... 3) User submits the advertisement for posting. 4) The system validates the submitted information to ensure it meets the required criteria. 5) If the information is valid, the system saves the advertisement in the inventory. 		
Alternative Flow:			
Exception Flow:			
Business Rules:	BR-11		

3.9.2.2. View ADS (UC-40)



Use Case ID:	UC-36	Use Case Name:	View ADS
Created By:	Nguyen Ho Ngoc An	Date Created:	07/07/2023
Primary Actor:	Business	Secondary Actor:	
Description:	The "View Ads Inventory" function allows users to access and browse the available ads inventory. It provides users with a comprehensive overview of the advertisements that are currently active and available for display.		
Priority:	Medium		
Trigger:	User clicks on the "Advertisement" option		
Preconditions:	The User must be logged into the system.		
Post - Conditions:	Displaying the advertisement on the ADS inventory		
Basic Flow:	<ol style="list-style-type: none"> 1) User accesses the "View Ads Inventory" feature on the social network platform. 2) The system retrieves the available ads inventory from the database. 3) The inventory is presented to the user in a visually appealing and organized format. 		
Alternative Flow:			
Exception Flow:			
Business Rules:	BR-11		

3.9.2.3. Update ADS (UC-37)

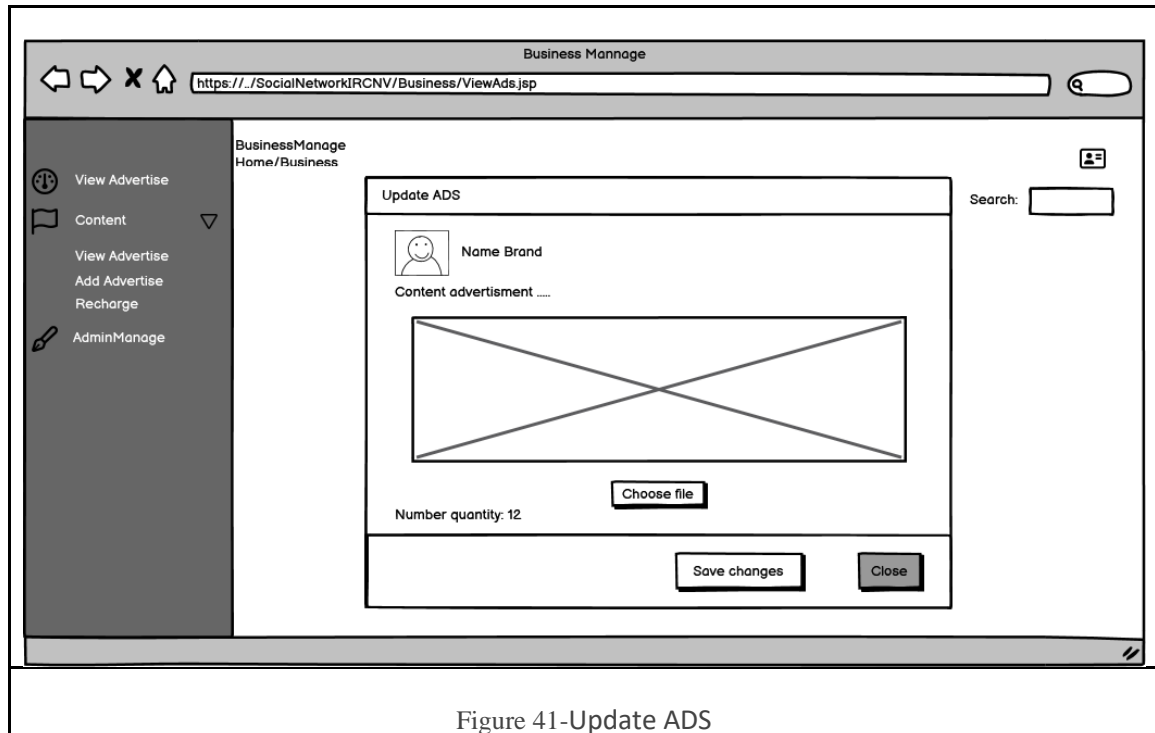


Figure 41-Update ADS

Use Case ID:	UC-377	Use Case Name:	Update ADS
Created By:	Nguyen Ho Ngoc An	Date Created:	07/07/2023
Primary Actor:	Business	Secondary Actor:	
Description:	The "Update Ads" function is a crucial feature in a social network platform that allows advertisers to modify and manage their existing advertisements. This function provides advertisers with the flexibility to make adjustments, improvements, or updates to their ads to ensure they remain relevant and effective in reaching their target audience		
Priority:	Medium		
Trigger:	User clicks "Update" option with selected ad in ADS inventory		
Preconditions:	The User must be logged into the system.		
Post - Conditions:	Displaying the advertisement form to change information		
Basic Flow:	1) Ad Selection: The user selects the specific ad or ads they want to update from their existing ads inventory.		

	<p>2) Edit Ad Components: The user is presented with options to modify various components of the selected ads. This may include editing the ad copy, images, headlines, call-to-action buttons, targeting parameters, and landing page URLs.</p> <p>3) Save and Update: Once the necessary modifications are made, the user saves the changes and updates the selected ads in the social network's advertising system. The updated ads will be update in ADS inventory</p>
Alternative Flow:	
Exception Flow:	
Business Rules:	BR-11

3.9.2.4. Delete ADS (UC -38)

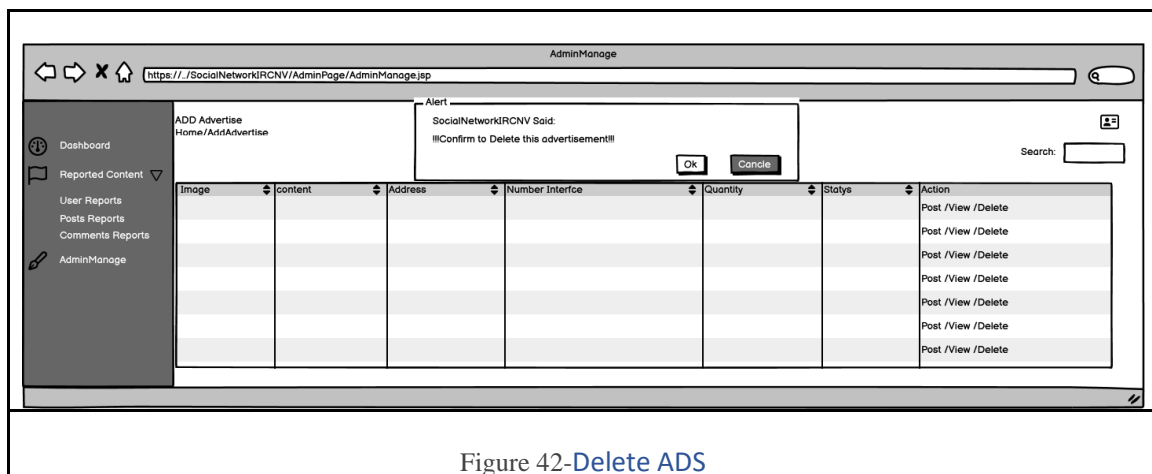


Figure 42-Delete ADS

Use Case ID:	UC-38	Use Case Name:	Delete ADS
Created By:	Nguyen Ho Ngoc An	Date Created:	07/07/2023
Primary Actor:	Business	Secondary Actor:	
Description:	The "Delete Ads" function in a social network allows users to remove specific ads from their advertising campaigns. This function provides a convenient way for advertisers to manage their ad content and make adjustments as needed.		
Priority:	Medium		
Trigger:	User clicks "Delete" option with selected ad in ADS inventory		

Preconditions:	The User must be logged into the system.
Post - Conditions:	Displaying the delete message
Basic Flow:	1) Ad Selection: The user selects the specific ad or ads they want to delete from their existing ads inventory. 2) Click on “Delete” button and confirm delete notification
Alternative Flow:	
Exception Flow:	
Business Rules:	BR-11

3.9.2.5. Pay for ADS (UC-39)

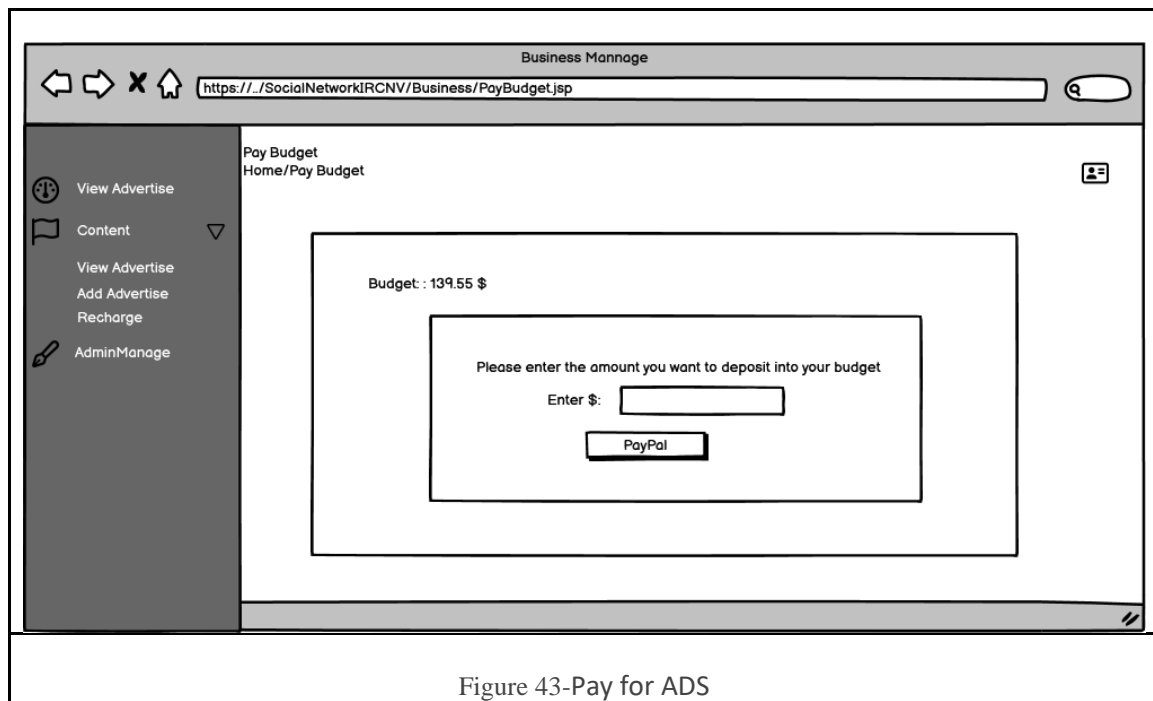


Figure 43-Pay for ADS

Use Case ID:	UC-39	Use Case Name:	Pay for ADS
Created By:	Nguyen Ho Ngoc An	Date Created:	07/07/2023
Primary Actor:	Business	Secondary Actor:	
Description:	The "Pay for ADS" function is a paid advertising feature provided by the social network that allows users to promote their content, products, or services		

	to a larger audience by investing money. With this function, users can ensure that their ads are displayed within the news feed of the social network, increasing their visibility and reaching a wider user base.
Priority:	Medium
Trigger:	User clicks "Pay budget" option
Preconditions:	The User must be logged into the system.
Post - Conditions:	Displaying the successful notification
Basic Flow:	<ol style="list-style-type: none"> 1) Start by accessing the social network's advertising platform or dashboard. 2) Click on the "Pay Budget" or similar option to add funds to your advertising account. This step ensures that you have sufficient funds to pay for the ads you want to display. 3) Deposit the desired amount of money into your advertising account using the provided payment options. This could involve linking a credit/debit card, or Paypal 4) Once your advertising account has been funded, navigate to the Ads inventory and choose Ads you want to post 5) Choose the number of impressions of the ad and click "Pay" button
Alternative Flow:	
Exception Flow:	
Business Rules:	BR-11

4. Non-functional requirements

4.1 Performance

No.	Requirement
1.	Allows a large amount of internet access to the system at the same time
2.	Fast response time

3.	Fast data import/export time
4.	Minimum configuration with low configuration machine

4.2 Scalability

No.	Requirement
1.	Large-scale data storage capability.
2.	Allows multiple users to perform the same operations in the same amount of time
3.	The server has the ability to upgrade its configuration.

4.3 Security

No.	Requirement
1.	When a user forgets their password, the link to create a new password should be sent to the original email address registered
2.	Login to access functionalities corresponding to each user's role.
3.	Authenticate users using account credentials (username and password).
4.	The system data is backed up daily and stored securely outside of the website.

5.	The system will block login attempts after multiple consecutive incorrect password entries.
6.	User accounts, passwords, and personal information will be encrypted using Argon2.

4.4 Browser

No.	Requirement
1.	Microsoft Edge and IE latest versions.
2.	Chrome, Firefox and Opera

4.5 Reliability

No.	Requirement
1.	Please contact us through the information provided on our website if you encounter any issues.

4.6 Interfaces

No.	Requirement
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1.	To create a user interface using Bootstrap 5 and jQuery
2.	To create a continuous and improved user experience, you can use Ajax (Asynchronous JavaScript and XML) to perform dynamic updates on your web page without requiring a full page reload
3.	To automatically update data on a web page without the need to reload it, you can use WebSockets

4.7 Assumptions

No.	Requirement
1.	The system can be temporarily suspended for upgrades if necessary.
2.	To delete a user if they violate the terms of the social network

5. Requirement Appendix

5.1 Business Rules

Rule ID	Rule Definition
BR-01	The email password reset link will expire after 20 minutes.
BR-02	Password regulation: at least 8 characters, must include at least 1 letter, 1 special character.
BR-03	Username regulation: no spaces and special characters
BR-04	Username cannot be duplication with other username

Rule ID	Rule Definition
BR-05	Email: Must have @ character
BR-06	Only one account can be created per email or Facebook account.
BR-07	When Sign up, Password and Repeat Password must be match
BR-08	The platform should ensure the privacy and security of user data in accordance with applicable regulations.
BR-09	User feedback policy: The social network provides a mechanism by which users can submit feedback, report violations, or request technical support. All of these responses and requests will be reviewed and dealt with promptly and fairly.
BR-10	Violations and penalties policy: The social network establishes clear rules about violations and applies disciplinary measures such as warnings, temporary locking or disabling of accounts for users who violate the rules. this regulation.
BR-11	Unlimited Promotional Posting Policy: The social network does not impose a limit on the number of promotional articles a user can post. Users are free to post promotional articles to promote their products, services or events.