UML Specification Document and UI Design

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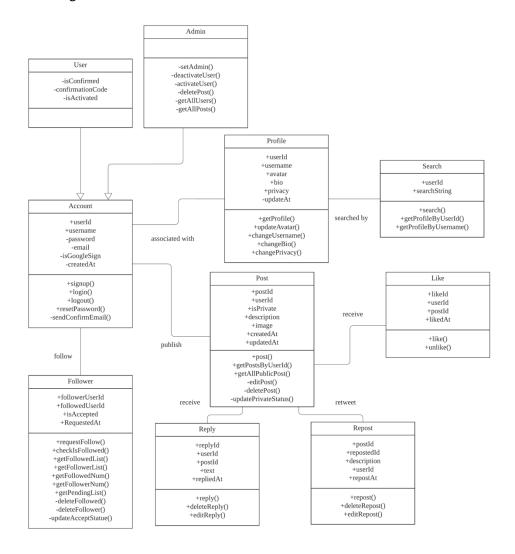
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1.UML DESIGN

1.1 Structural Diagram

Class Diagram

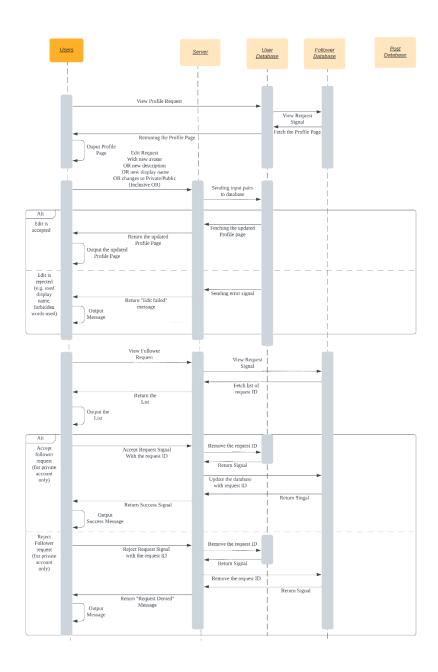


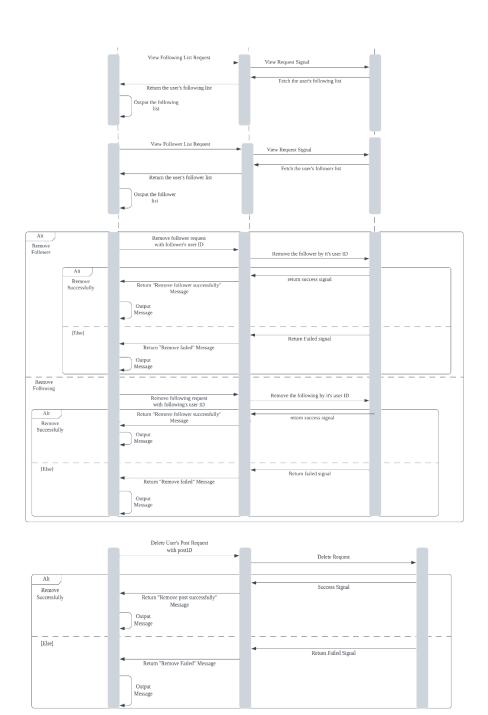
1.2 Profile System

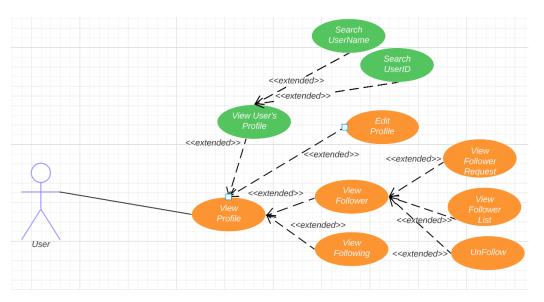
1.2.1. Functionality

- Enter personal profile
- Edit personal profile
- Navigation bar of "Posts', "Followers", "Followings"
- Remove followers under the display of the list of "Followers"
- Unfollow other users under the display of the list of "Followings"
- Accept or deny follower request if personal profile is private

1.2.2. UML







1.2.3. Procedures and Functions

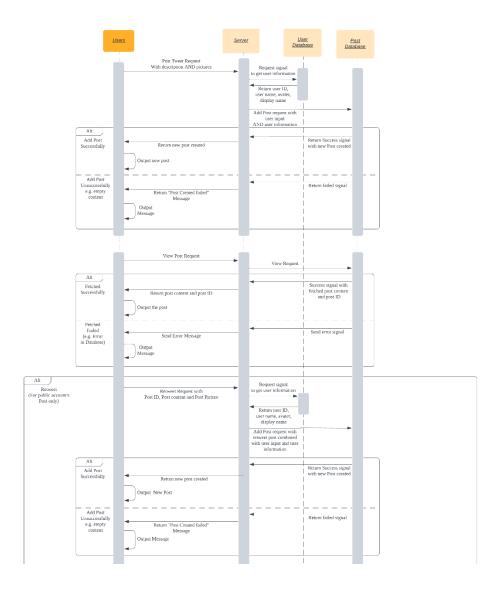
- A. Enter personal profile
 - I. click "Profile" at the upper left corner
 - II. the page will be directed to the personal profile
- B. Edit profile
 - I. Click "Edit Profile Button"
 - II. Add or update icon, name, bio, privacy (public or private)
 - III. Click "Save" at the bottom
- C. Navigation bar
 - I. Click either "Posts', "Followers" or "Followings" on the navigation bar
 - II. Respective List will be shown
- D. Remove followers under the display of the list of "Followers"
 - I. Click "Followers" on the navigation bar
 - II. Click "remove" button next to the targeted user
- E. Unfollow other users under the display of the list of "Followings"
 - I. Click "Followings" on the navigation bar
 - II. Click "remove" button next to the targeted user
- F. Accept or deny follower request
 - I. Click "Followers" on the navigation bar
 - II. Click "Followers Request" button on the top of the list
 - III. Choose either "accept" or "request" for that following request

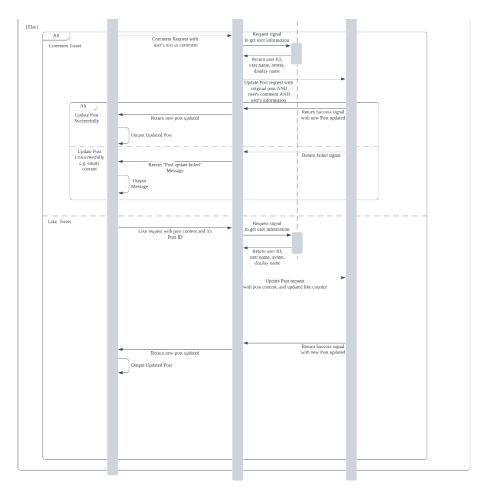
1.3. Post System

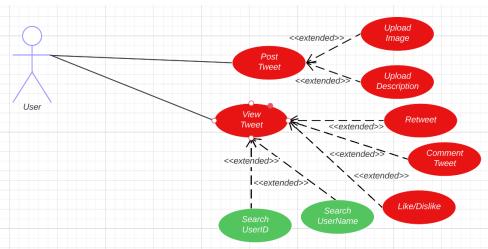
1.3.1. Functionality

- To post a tweet
- To retweet a public tweet
- To like and comment of a tweet

1.3.2. UML







1.3.3. Procedures and Functions

A. Tweets displaying

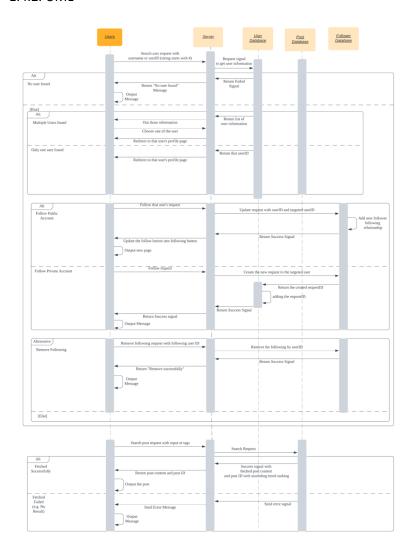
- I. Click "Home" at the upper left corner
- II. The page will be directed to a dynamic wall which displays tweets from followed users
- III. When scrolled into the bottom of the dynamic wall, more tweets will be fetched

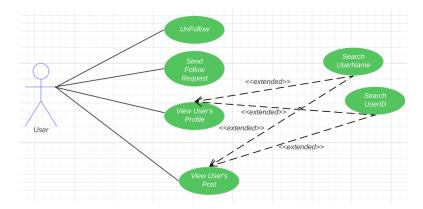
B. Post tweet

- I. Click "Tweet" button at the upper left corner
- II. Type the description and upload an image (if any) of the tweet
- III. Click "Tweet" button at the bottom to publish the content
- C. Retweet public tweets

- I. Click "retweet" button
- II. Type the description
- III. Click "publish" button at the bottom
- D. Comment on tweets
 - I. Click "Comment" Button under the tweet
 - II. Input the comment
 - III. Press "send" button
- E. Like a tweet
 - I. Click "like" Button under the tweet
- 1.4. Search System
- 1.4.1. Functionality
- Search user profile based on user or userID(#____ string)
- Search result displaying
- Follow or unfollow a user in its profile

1.4.2. UML





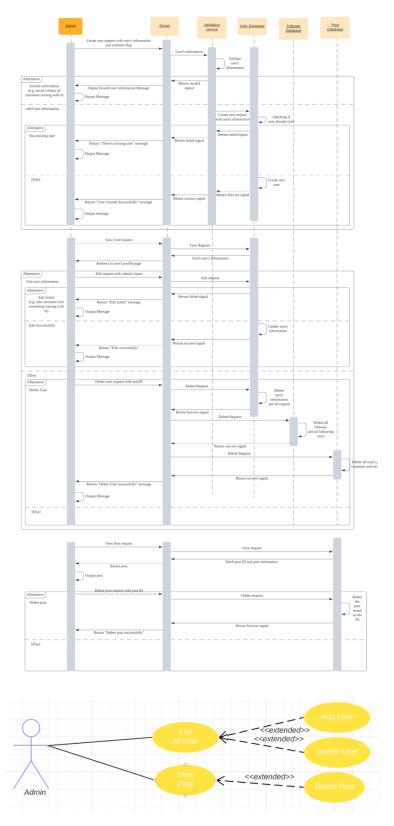
1.4.3. Procedures and Functions

- A. Search user profile based on user or userID(#_____ string)
 - I. Type the username or user ID(start with #) in the user search bar
 - II. A table which contained the list of matched user account will be inserted between search bar and following account table
- B. Follow or unfollow a user
 - I. Continue the procedures in (A) to get a matched user account list
 - II. Click the user icon to enter its profile page. at the end of each row.
 - III. Corresponding button either "unfollow" or "+follow" will be displayed in its profile.
- 1.5. User management System (Admin)

1.5.1 Functionality

- To create / view / edit / delete a user account
- To view / delete a tweet

1.5.2 UML



1.5.3. Procedures and Functions

A. Viewing all existing account

By default, after a successful login of an admin account, a sorted list with user icon, username and user ID in each row will be displayed.

B. Delete an account

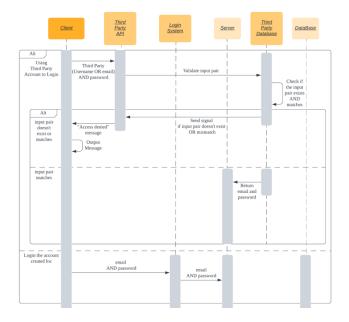
- I. Click "delete" button of the targeted account at the end of each row
- C. Editing a user account
 - I. Click "edit" button of the targeted account at the end of each row
 - II. Edit the email address / username / password / user ID
 - III. Click save button
- D. Create a user account
 - I. Click "add" button at the top right hand corner of the display list
 - II. Input email address / username / password / user ID
 - III. Click save button
- E. To view the profile of an account
 - I. Click the user icon of the targeted account in particular row
 - II. Its profile will be displayed
- F. To delete a tweet
 - I. Click the user icon of the targeted account to enter its profile
 - II. Click delete button at the top right hand corner of that tweet

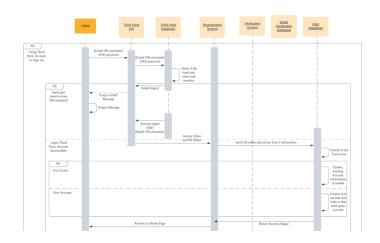
1.6. Login Sign up

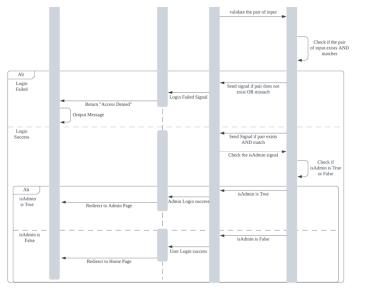
1.6.1. Functionality

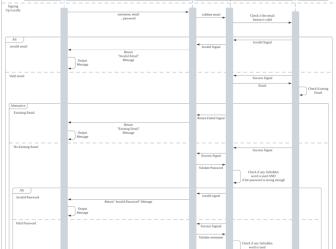
- Register an account with email verification
- Reset the password if it is forgotten
- Log in or out an account
- Using google account to login

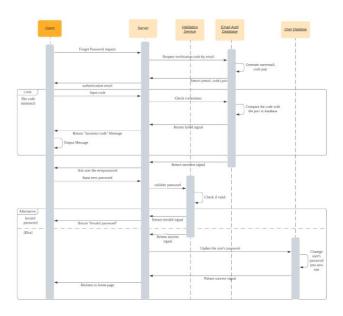
1.6.2. UML

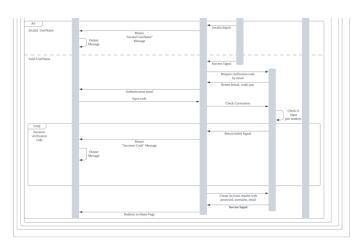


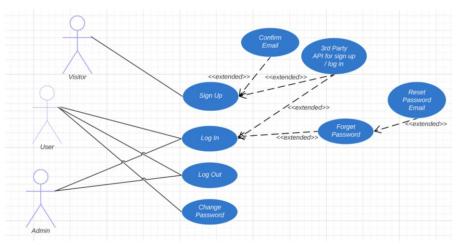












1.6.2 Procedures and Functions

By default, login screen will be displayed whenever the user is not yet log in an account



- A. Register an account with email verification
 - I. Click "Sign Up with Email" button under the login screen
 - II. Input email address, username, password and confirm password
 - III. Click "Create Account" button
 - IV. After successful registration, message "User was registered successfully! Please check your email" will be displayed under the "Create Account" button.



V. Click the link in the corresponding email to verify the account.



- B. Reset password
 - I. Click "Already have an account?" button under the login screen
 - II. Click "Forgot password?" button
 - III. Input the username or email address
 - IV. Click the link in the corresponding email and reset the password
- C. Log in through password
 - I. Click "Already have an account?" button under the login screen
 - II. Input the email address and password
 - III. Click "Login" button
- D. Log in through google account
 - I. Click "以(name)的身份登入" button under the login screen



II. Allow permission in the google account interface if not yet registered

E. Log out

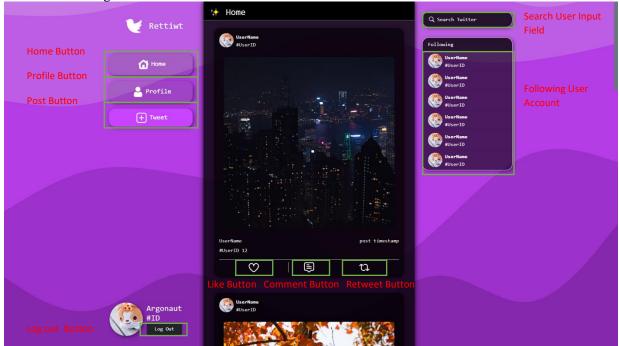
I. Click "Log Out" button at the bottom left corner

2. UI DESIGN

2.1 Home Page

2.1.1 Description of the ciew pass

2.1.2 Screen Image



This is the home page of the application. Upper left corner contains three main buttons for directing to the home page, personal profile and posting a tweet. At the middle there is a dynamical wall which displays tweets from followed users. Like, comment and retweet functions are provided at the bottom of each tweet. When scrolled into the bottom of the dynamic wall, more tweets will be fetched. Lastly at the right sidebar, there is a input box for searching and a table which displays followed users.

2.1.3 Objects and Actions

Home Button: Redirect to Home page

Profile Button: Redirect to Profile page

Post Button: Upload a Tweet with image and description

Log out Button: Log out the account

Like Button: Like the post

Comment Button: The Post will show in full width and allow you to see other user's comment and be able to

comment on the post.

Retweet Button: Repost other user's post with and additional description.

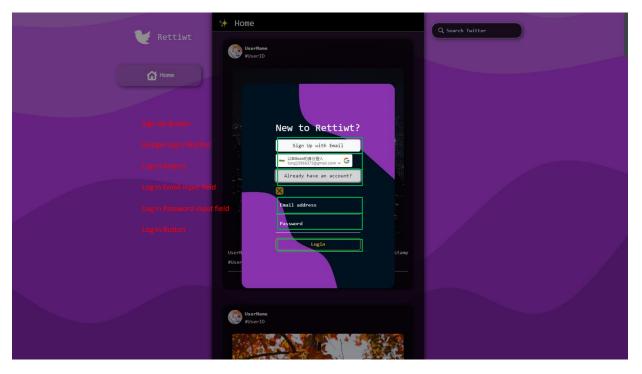
Search User Input Field: Input Username to Search user or input #xxxxxx(User ID) to search user

Following User Account: listing the following users account, clicking on them will redirect to their profile page.

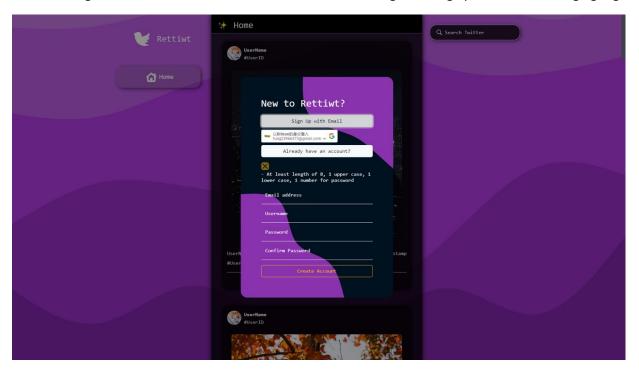
2.1 Log in and Sign-Up page

2.1.1 Description of the ciew pass

2.1.2 Screen Image

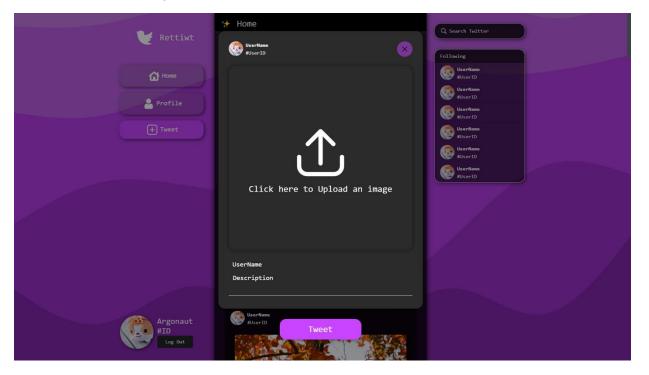


This is the login screen. User can either create an account and log in through password or through google account directly.



This demonstrates the registration procedures. Noteworthy the password must contain at least one upper case letter, 1 lower case letter, 1 number and with length at least 8 to fulfill basic security requirement.

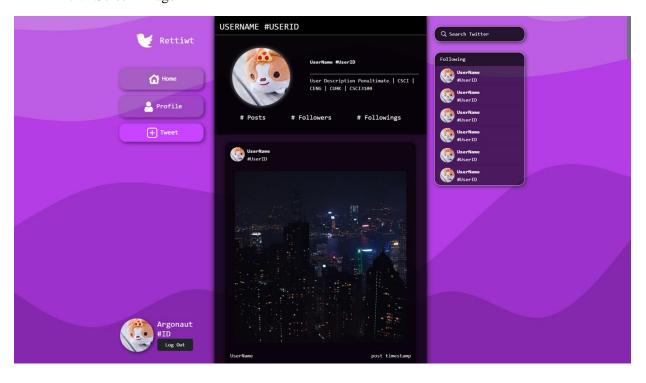
pass 2.1.2 Screen Image



This is the tweet posting interface. User can post a tweet with description and an image.

2.1.3 Objects and Actions
2.1 Other user's Page
2.1.1 Description of the ciew

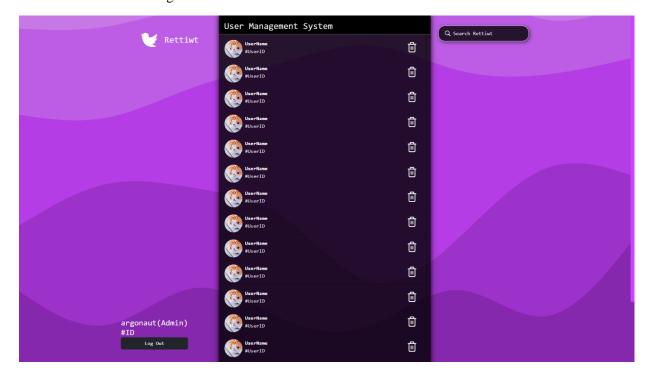
pass
2.1.2 Screen Image



This is the user account profile interface. Icon and the basic personal information will be displayed at the top. Three buttons included "Posts", "Followers" and "Followings" for displaying respective content.

2.1.3 Objects and Actions

2.1 Admin Page
2.1.1 Description of the ciew pass
2.1.2 Screen Image



This is the management interface for an admin account. In the middle there is the sorted existing user accounts list. A delete button is provided at the end of each row to delete the account. More detailed information including account email, password and posted tweet will be displayed when clicking the icon of that user.

2.1.3 Objects and Actions

Profile Page
2.1.1 Description of the ciew pass

2.1.2 Screen Image



2.1.3 Objects and Actions