

**JELLYFISH MENFESS**  
**Server Side Internet Programming**



**Group 3 :**

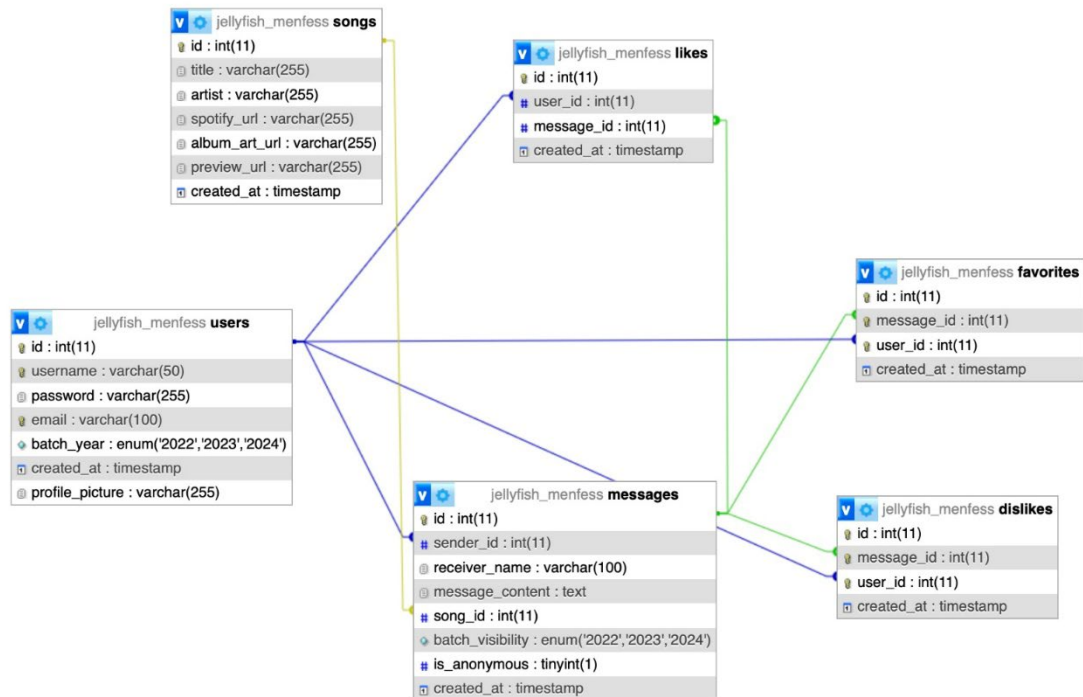
1. Clarizza Revalentina Setiawan
2. Cut Kheysa Sakbania
3. Elmira Jacinda Wahid

**INFORMATICS 2024**

**PRESIDENT UNIVERSITY**

## A. Information of The Table

Table database



### 1. Users

Stores registered user details.

- id: Primary Key
- username: Unique username chosen by the user
- password: Hashed password for secure login
- email: User's email address
- batch\_year: Enum (2022, 2023, 2024) indicating user's academic year
- profile\_picture: File path or URL to the user's profile
- created\_at: Timestamp when the user account was created

### 2. Messages

Stores messages sent by users, which can include a song and be sent anonymously.

- id: Primary Key
- sender\_id: Foreign Key to Users(id) — who sent the message
- receiver\_name: Receiver's public name (not necessarily an account)
- message\_content: Body of the message

- song\_id: Foreign Key to Songs(id) — optional linked song
- batch\_visibility: Enum (2022, 2023, 2024) — who can view the message
- is\_anonymous: 1 if anonymous, 0 if sender shown
- created\_at: Timestamp when the message was posted

### 3. Songs

Contains song information that can be attached to messages.

- id: Primary Key
- title: Song title
- artist: Artist or band name
- spotify\_url: Link to the song on Spotify
- album\_art\_url: URL to the album artwork
- preview\_url: Link to a short preview of the song
- 

### 4. Likes

Tracks which users liked specific messages.

- id: Primary Key
- user\_id: Foreign Key to users(id)
- message\_id: Foreign Key to messages(id)

### 5. Dislikes

Tracks which users disliked specific messages.

- id: Primary Key
- user\_id: Foreign Key to users(id)
- message\_id: Foreign Key to messages(id)

### 6. Favorites

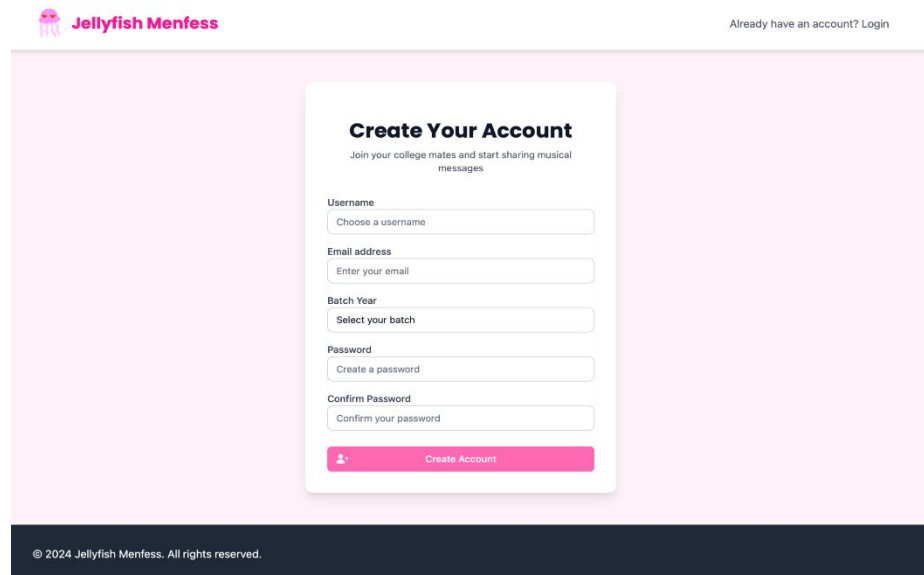
Tracks which users marked specific messages as favorite.

- id: Primary Key
- user\_id: Foreign Key to users(id)
- message\_id: Foreign Key to messages(id)

This is our website link <http://jellyfishmenfess.my.id/college-menfess/>

## B. Flow of Application

Our project website is a campus-based platform that allows students to express their feelings through anonymous messages, often accompanied by music. The website aims to strengthen social connections between students in a relaxed and fun way.

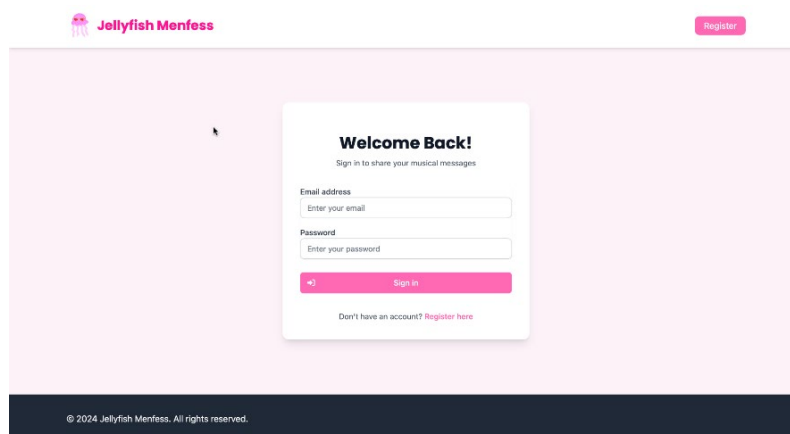


The screenshot shows the 'Create Your Account' page for Jellyfish Menfess. The page has a light pink background. At the top left is the Jellyfish Menfess logo, and at the top right is a link 'Already have an account? Login'. The main content is a white card with the title 'Create Your Account' and the subtitle 'Join your college mates and start sharing musical messages'. The card contains several input fields: 'Username' (placeholder: 'Choose a username'), 'Email address' (placeholder: 'Enter your email'), 'Batch Year' (placeholder: 'Select your batch'), 'Password' (placeholder: 'Create a password'), and 'Confirm Password' (placeholder: 'Confirm your password'). At the bottom of the card is a pink button with a user icon and the text 'Create Account'. The footer of the page is dark blue with the text '© 2024 Jellyfish Menfess. All rights reserved.'

### Form B.1.1 (Register Page)

This page is for new users who want to create an account on the Jellyfish Menfess platform. Users are asked to fill in the registration form which consists of several fields, namely: username, email, batch year, password, and password confirmation. After all the data is filled in, users can press the “Create Account” button to complete the registration process.

There is also a link at the top of the page titled “Already have an account? Login”, which directs users to the login page if they already have an account. This feature aims to facilitate the process of logging in and starting to use the services available on the platform.

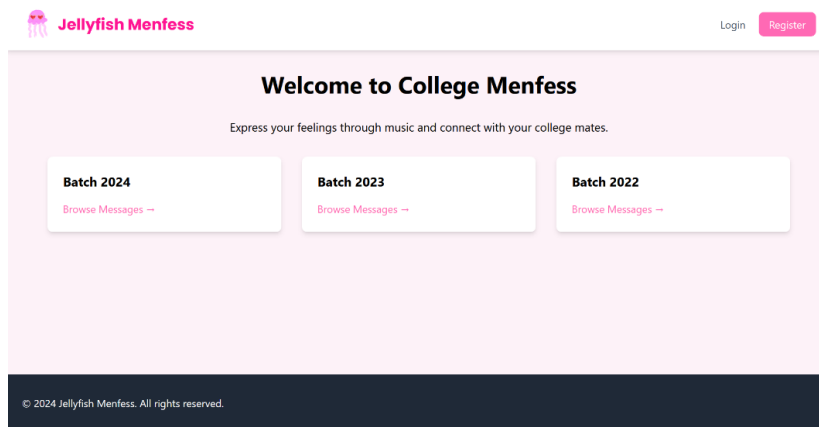


The screenshot shows the 'Welcome Back!' login page for Jellyfish Menfess. The page has a light pink background. At the top left is the Jellyfish Menfess logo, and at the top right is a pink button labeled 'Register'. The main content is a white card with the title 'Welcome Back!' and the subtitle 'Sign in to share your musical messages'. The card contains two input fields: 'Email address' (placeholder: 'Enter your email') and 'Password' (placeholder: 'Enter your password'). At the bottom of the card is a pink button with a user icon and the text 'Sign in'. Below the card is a link 'Don't have an account? Register here'. The footer of the page is dark blue with the text '© 2024 Jellyfish Menfess. All rights reserved.'

### Form B.1.2 (Login Page)

After registering users are directly directed to the login form page, the login page is a feature provided for users who already have an account on the Jellyfish Menfess platform so they can start using this website and its features. On this page, users are asked to fill in the previously registered email address and password. On our website system, a username or email address cannot be used or registered more than once.

After all data is filled in correctly, users can press the “Sign In” button to continue the process of logging into the system. For users who do not have an account, there is also a “Register here” link that leads directly to the registration form page.

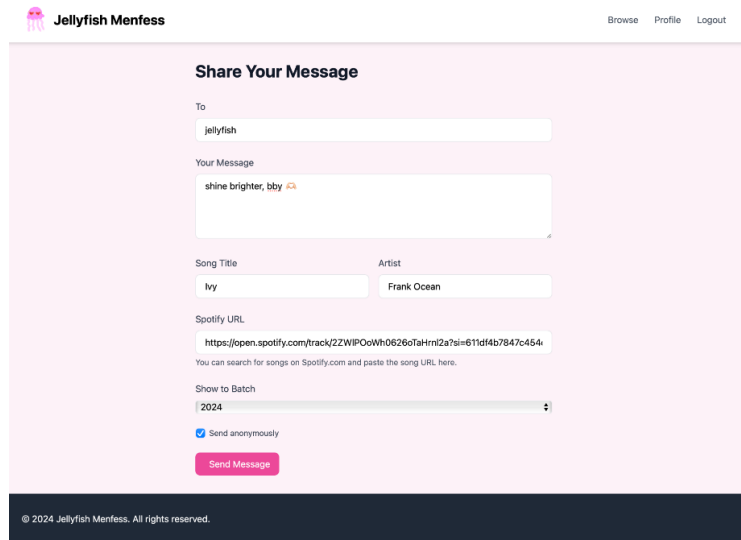


### Form B.1.3 (Index Page, Before Login)

After the user has successfully registered and also logged in, the user will be directed to the Jellyfish Menfess main page. On this page, users are greeted with the words “Welcome to Jellyfish Menfess” followed by a short tagline: “Express your feelings through music and connect with your college mates.” - which means users are invited to share their feelings through music and stay connected with their college friends.

Right underneath, the website provides a filter feature based on batch or class. So, users can easily choose to view messages from a particular batch, such as Batch 2024, Batch 2023, or Batch 2022. Each batch is equipped with a “Browse Messages” button that will take users to a page containing a collection of messages that have been uploaded by other users. This feature makes it easy for users to read messages that are relevant to the selected batch.

On the top right of the page, there is a prominent pink “New Message” button to make it easier for users to send new messages. In addition, there is also a Profile menu to view personal data, and a Logout button to log out of the account.



**Jellyfish Menfess** Browse Profile Logout

### Share Your Message

To  
jellyfish

Your Message  
shine brighter, bby 🍷

Song Title  
Ivy

Artist  
Frank Ocean

Spotify URL  
https://open.spotify.com/track/2ZWlP0oWh0626oTaHrni2a?si=611df4b7847c454  
You can search for songs on Spotify.com and paste the song URL here.

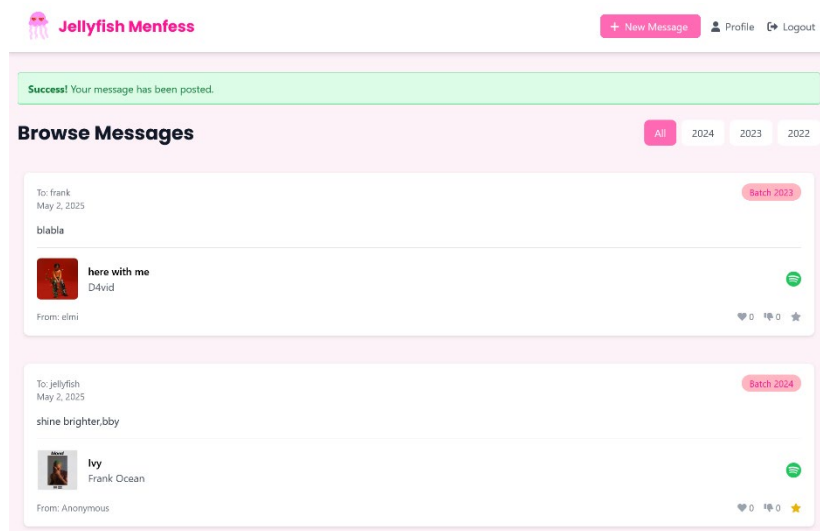
Show to Batch  
2024

☒ Send anonymously

Send Message

© 2024 Jellyfish Menfess. All rights reserved.

### Form B.1.4 (Submit New Message Page)



**Jellyfish Menfess** + New Message Profile Logout

Success! Your message has been posted.

### Browse Messages

All 2024 2023 2022

To: frank  
May 2, 2025  
Batch 2023

biabla

here with me  
D4vid

From: elmi

To: jellyfish  
May 2, 2025  
Batch 2024

shine brighter.bby

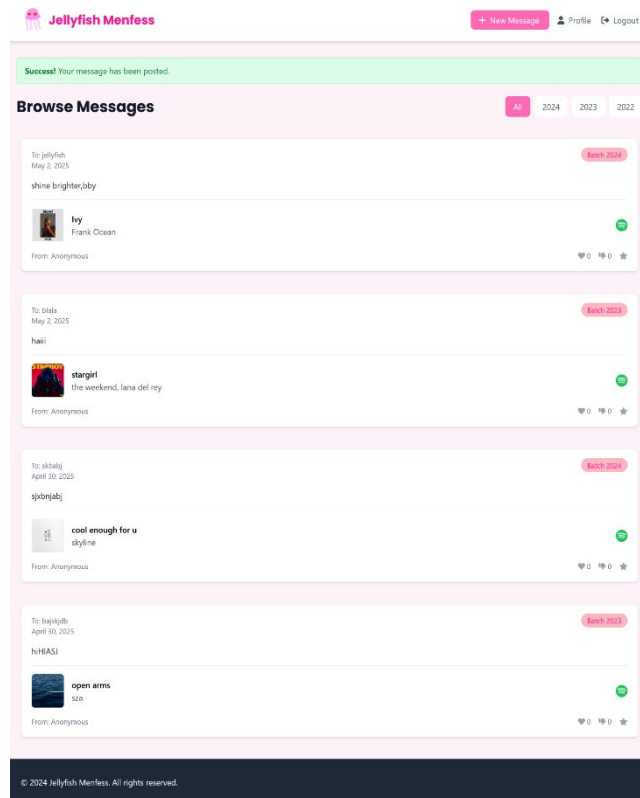
Ivy  
Frank Ocean

From: Anonymous

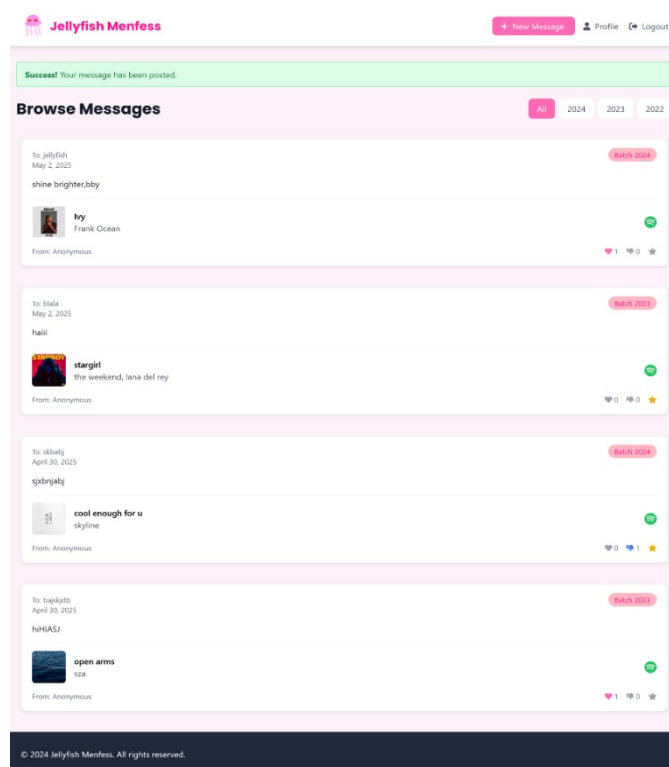
### Form B.1.5 (Message Submitted Successfully, the difference between sending anonymously and not anonymously “the username will be visible in the message form”)

On this page, users can freely pour their hearts out through the “Share Your Message” feature. At the top of the form, there is a “To” column to write who you want to send the message to, followed by the “Your Message” column to type in the message content. To make it more fun, you can also add song recommendations by filling in the song title, artist name, and Spotify URL to get the vibe going.

We also provide the option to select batches, so that incoming messages can be grouped more neatly. If you don't want your identity to be known, simply check the “Send Anonymously” box. But if you don't, your name will appear on the Browse Message page. Finally, just click the “Send Message” button to send your message.



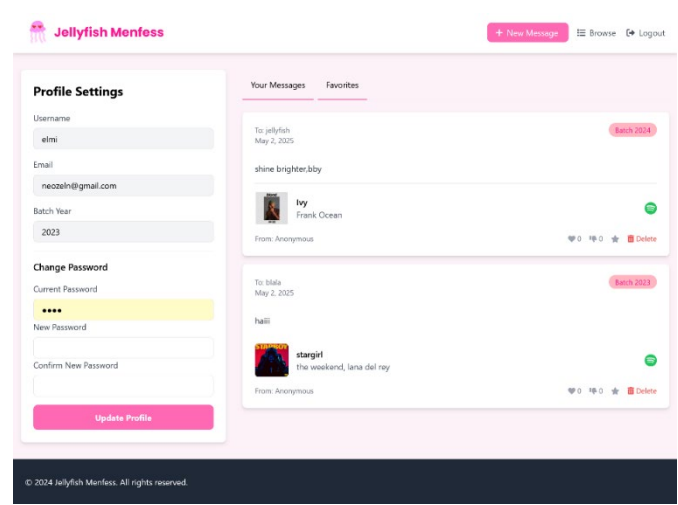
Form B.1.6 (Browse Message Page, Before click the button Like, Dislike and Favorit)



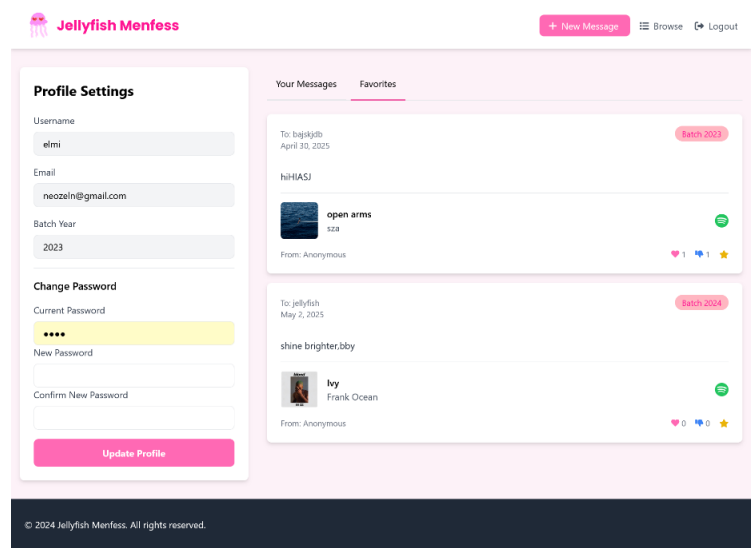
Form B.1.7 (Browse Message Page, After click the button Like, Dislike and Favorit)

On this page, users can scroll through and read all the menfess (messages) that have been sent by other users. Each message is given info on who the message is for, the date it was sent, the content of the message, as well as the song that the sender has inputted (complete with title, singer, and cover art). The song can also be played directly through Spotify, just click the green icon on the right.

Each message also has info about the sender (usually anonymous), and the recipient's class, for example “Class of 2024”. If the user likes the message, just click the like button below it, but otherwise if the user does not like the message, just click the dislike button, the user can also add the message to favorites, just click the star-shaped button next to the dislike button. On the top right, we also have a filter button to choose whether you want to see messages from all batches, or specific batches such as the class of 2022, 2023, or 2024.



Form B.1.8 (Profile Pages, Form Your Message)



Form B.1.9 (Profile Pages, Form User Favorite Message)

On this page, users can easily manage their profile. On the left is Profile Settings, where users can see their username, email, and Year of Class. If you want to change your password, you can fill in the



fields provided, which consist of an old password field, a new password field, and a new password retype field, then click the pink Update Profile button.

On the right is the Your Messages section, which contains all the messages that have been sent by the user. Each message is given batch info, the date it was sent, who the sender is (usually anonymous), and some features such as likes, dislikes and favorites that were earned. If you want to delete a message, simply click the Delete button next to it. Basically, this page is where you organize your account and manage all the messages you have sent!

**Profile Settings**

Username  
jellyfish

Email  
jellyfish@gmail.com

Batch Year  
2024

**Change Password**

Current Password  
.....

New Password  
.....

Confirm New Password  
.....

Update Profile

**Profile Settings**

Password updated successfully!

Username  
jellyfish

Email  
jellyfish@gmail.com

Batch Year  
2024

**Change Password**

Current Password  
.....

New Password  
.....

Confirm New Password  
.....

Update Profile

### Form B.1.10 (Profile Pages)

In our profile there is a password change feature, so users can change their password by filling in 3 fields, namely the old password, new password, and confirmation of the new password.

Then click the “Update Profile” button to save the changes. If successful, a green notification appears such as “Password updated successfully!” After success, the form automatically empties.

And finally, we have a logout feature to log out of the account. Simply click the button in the top right corner, and the user will be redirected to the main page and the login session will end.

### C. CRUD Processes.

- CREATE :
  1. User signs up
    - User fills in the registration form (username, email, password).
    - Password is hashed for security.
    - Data is saved to the users table.
  2. User sends a message
    - After logging in, the user can send a message along with the song link that will be sent to his menfess.
    - The data is stored in the messages table with user\_id as the foreign key.
  3. User interacts (like/dislike/favorite)
    - Users can like, dislike, or add messages to favorites.
    - Saved to the likes, dislikes, or favorites table.
  4. User adds a song
    - User can add a song to the system.
    - The data is stored in the songs table.
- READ :
  1. Login validation
    - At login, the system checks if the email/username and password match.
  2. Display feed
    - The feed displays messages from all users (whether from anonymous users or non-anonymous users) complete with the number of likes/dislikes.
  3. Show song info
    - Display the song that the user has selected, by copying the song link from spotify.
  4. Load user profile
    - Displays the user profile along with its activities (messages, favorites, etc.), this system can only be seen by the user himself.
- UPDATE :
  1. User changes password
    - After login, the user can access the "Change Password" page.
    - The system verifies the old password before saving the new one (hashed).
- DELETE:
  1. User removes an interaction (like/dislike/favorite)
    - Users can unlike/dislike/favorite a message.