Project Sunshine's User Guide

Sunshine Developers :

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Short Description :

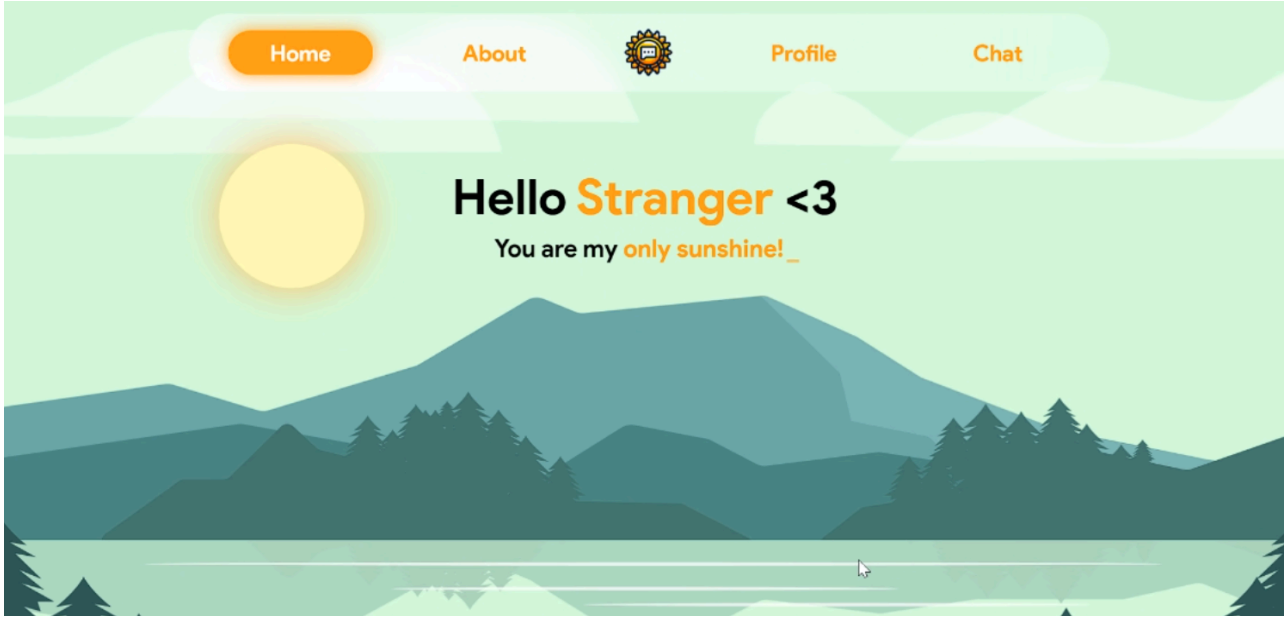
Sunshine is a chat application developed on the Internet Computer using the Motoko programming language. It enables users to communicate by integrating Internet identities and conducting cryptocurrency transactions. Additionally, Sunshine offers interactive gaming features, enhancing the fun and engagement of its users.

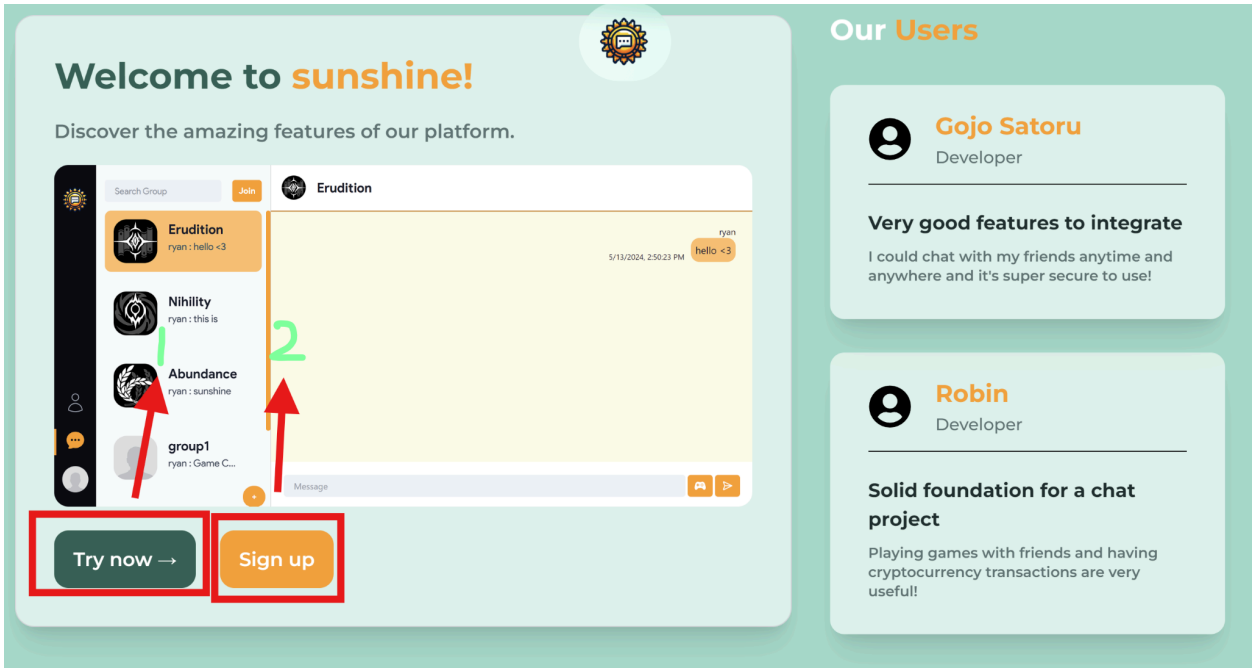
Main Features :

- *Scalable Real-Time Messaging*
  Implement a scalable real-time messaging system built on the Internet Computer, benefiting from its high throughput and low latency. This system can handle massive amounts of data and a high number of users without compromising speed or efficiency.
- *Blockchain-Enabled Cryptocurrency Transactions*
  Enable cryptocurrency transactions through the app using a blockchain-based approach, possibly through a regtest environment for safe testing and demonstrations. This will allow users to perform secure and verifiable transactions within their chats.
- *Distributed Game Logic*
  Games integrated into the chat can run their backend logic directly on the Internet Computer, ensuring transparent and verifiable game mechanics. This decentralized approach prevents cheating and enhances performance.

Home Page

Preview :





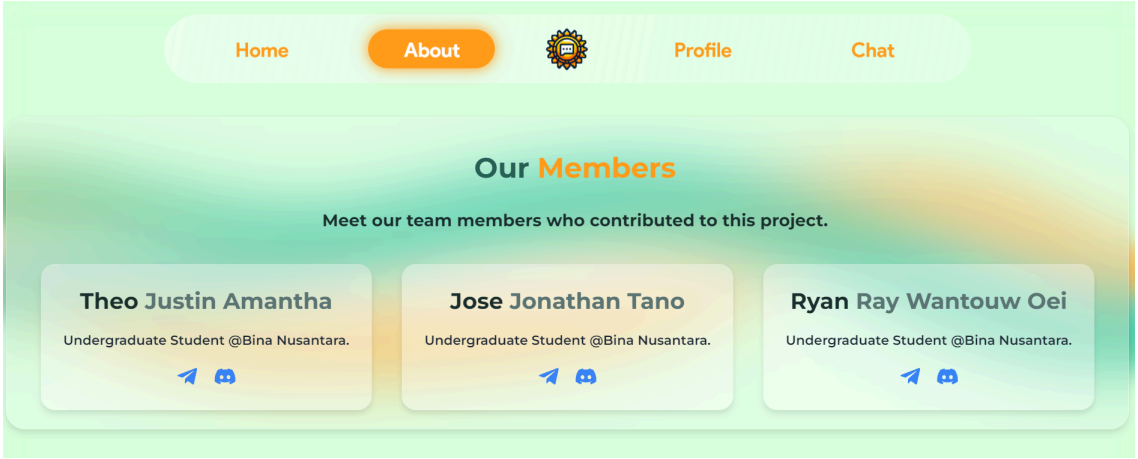
Feature Description :

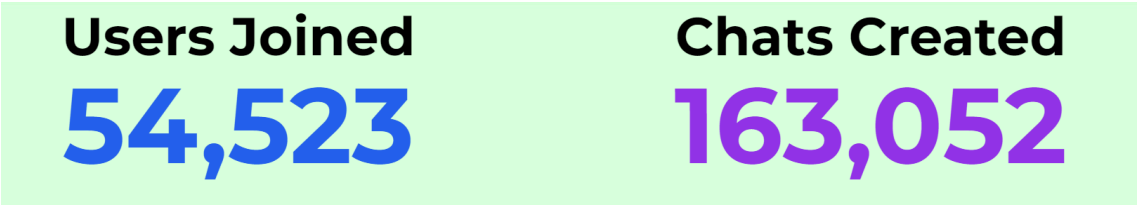
Num.	Feature
1	Redirects the user to Chat Page
2	Redirects the user to Sign Up

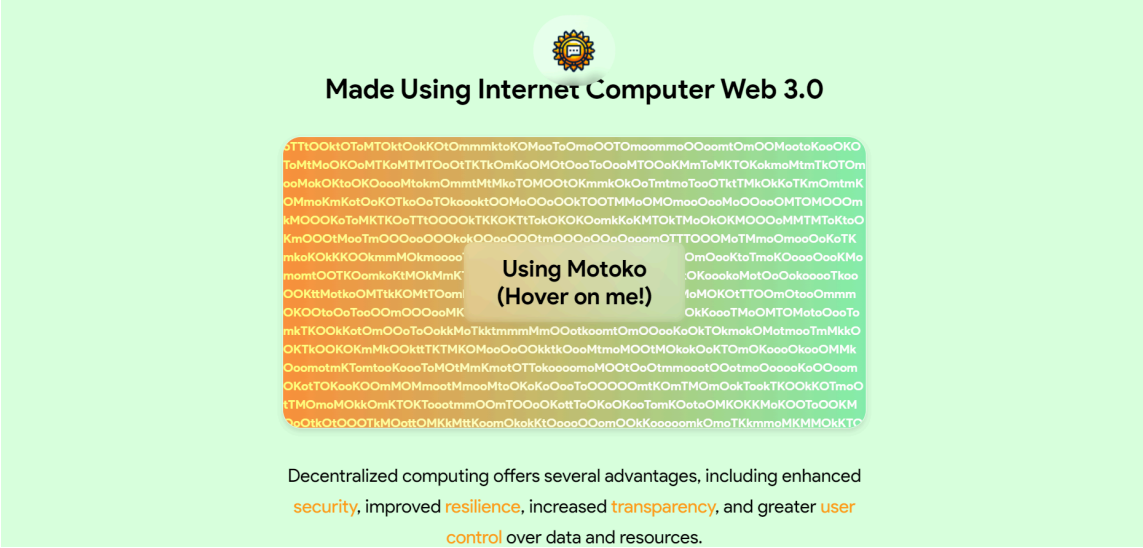
On the Home Page, we welcome users with an overview of features available on our website, user testimonials, and direct links to the 'Try Now' and 'Sign Up' pages. 'Sign Up' allows users to register using Internet identity, while 'Try Now' redirects them directly to the chat page.

About Us Page

Preview :



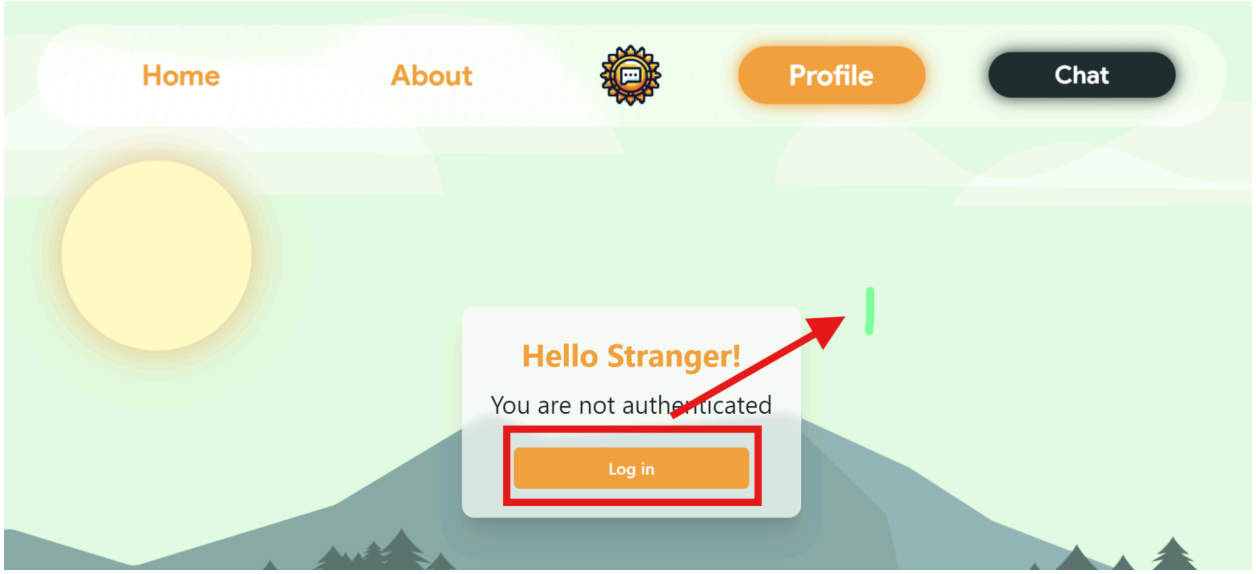


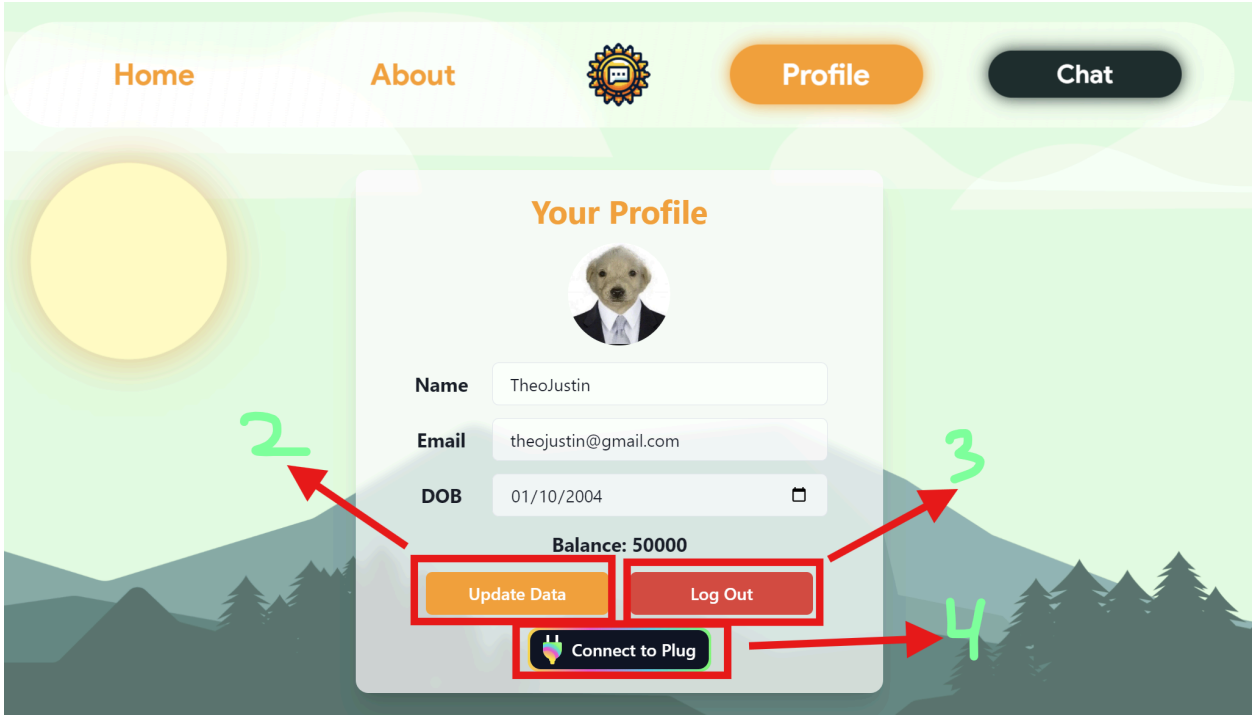


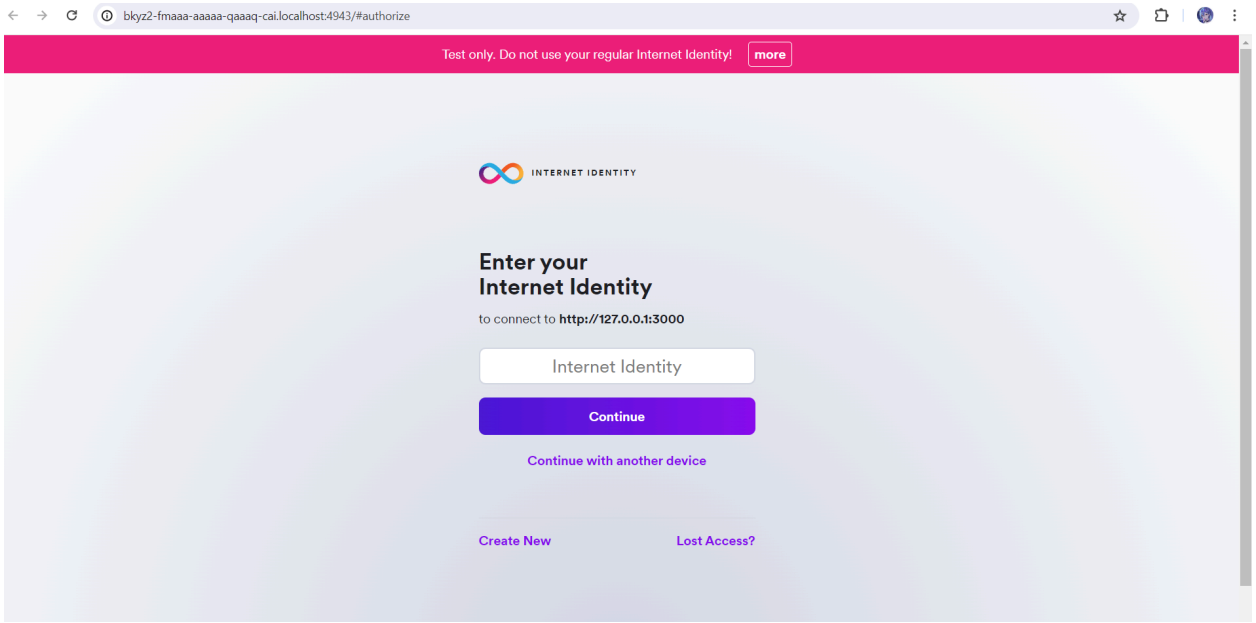
On the About Us page, we list the names of every developer involved in the Sunshine project. This page also highlights users who have joined our website and chats created within our blockchain system (note that the number in the showcase is just dummy data). Additionally, we feature an interactive effect to showcase that the website is developed on the Internet Computer using the Motoko Language.

Profile Page

Preview:







On the Profile Page, we offer a feature to log in using an Internet identity integrated through the Internet Computer. Once logged in, users have the option to log out. Here, you can register and provide your name, email, and date of birth, which can later be updated. After registration, you can access the chat page. Additionally, we offer a plug extension feature to connect to a cryptocurrency-based wallet (Note: Accessing the plug requires having the plug extension installed in Google Chrome).

Feature Description :

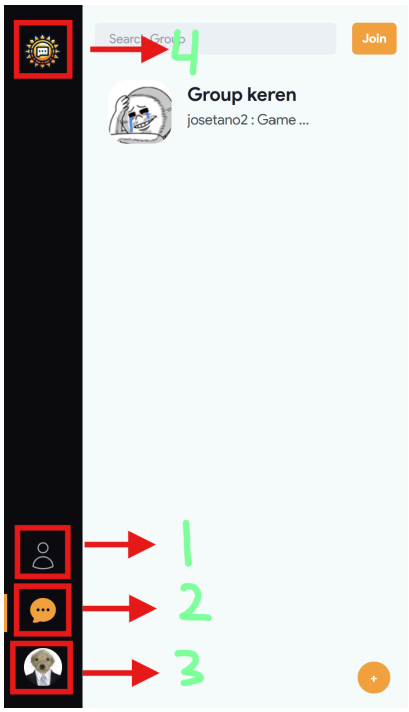
Num.	**Feature**
1	Redirects user to the internet identity page to login from the website with it
2	Validates that the username must have at least 4 characters, the DOB must be at least 13 years before, and the email must contain an '@' and a '.com', if any of them is wrong, then it will return an error. Then, it updates user data that the user inputs as the Name, Email, and Date of Birth to register on the website
3	Logs out user so that user can log in with other internet identities
4	Connects to the plug extension, allowing the user to connect to their wallet and access their crypto wallet

Chat Page's Sidebar

Preview:

On the Chat Page, we can access multiple features. Here, on the left side, there is a sidebar that allows us to navigate to either the chat page, the friend page, or the profile page.

Preview :

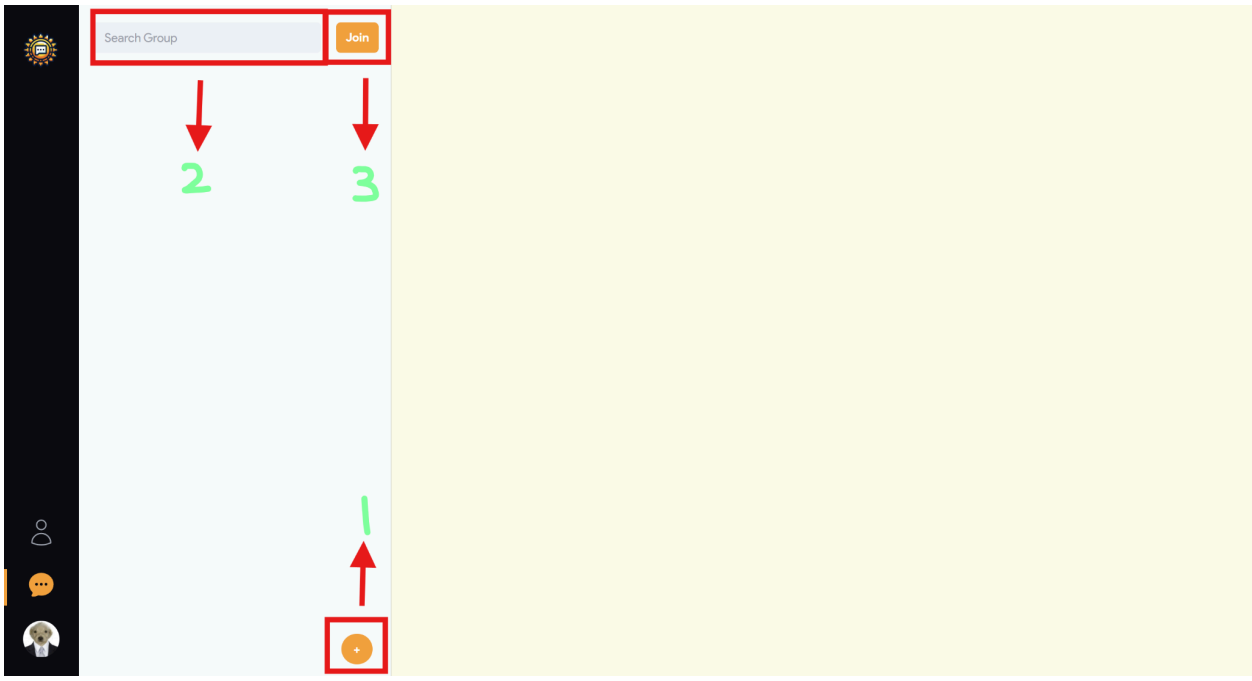


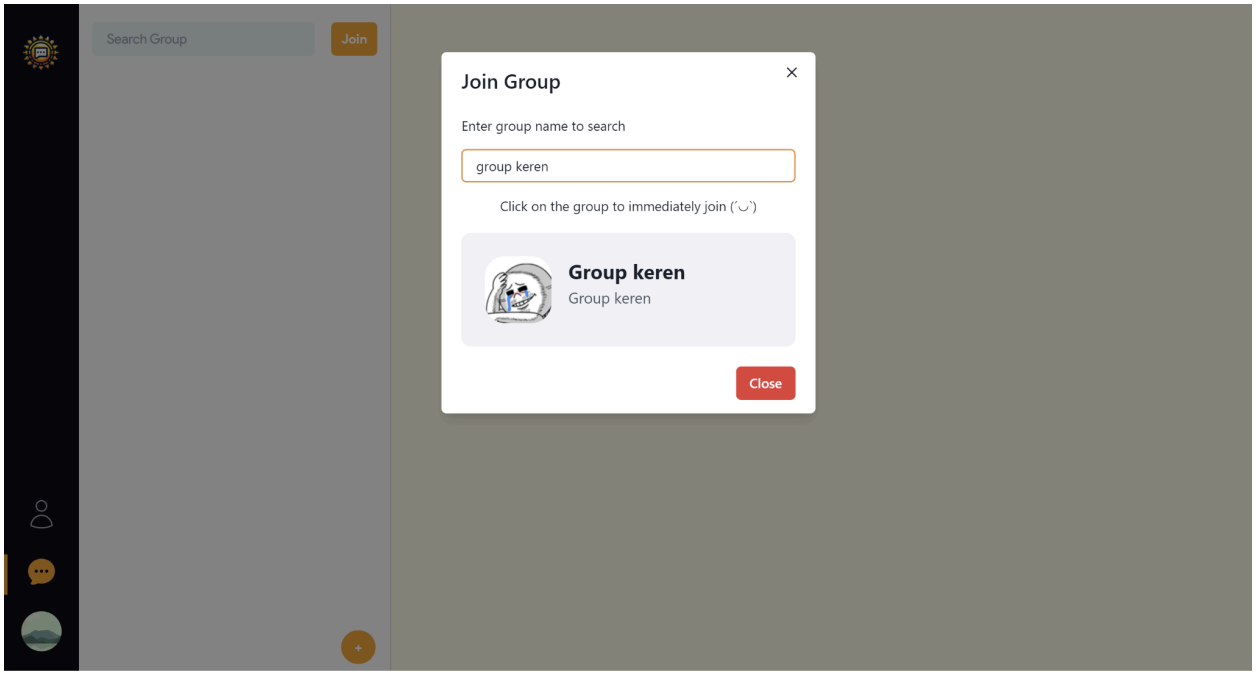
Feature Description :

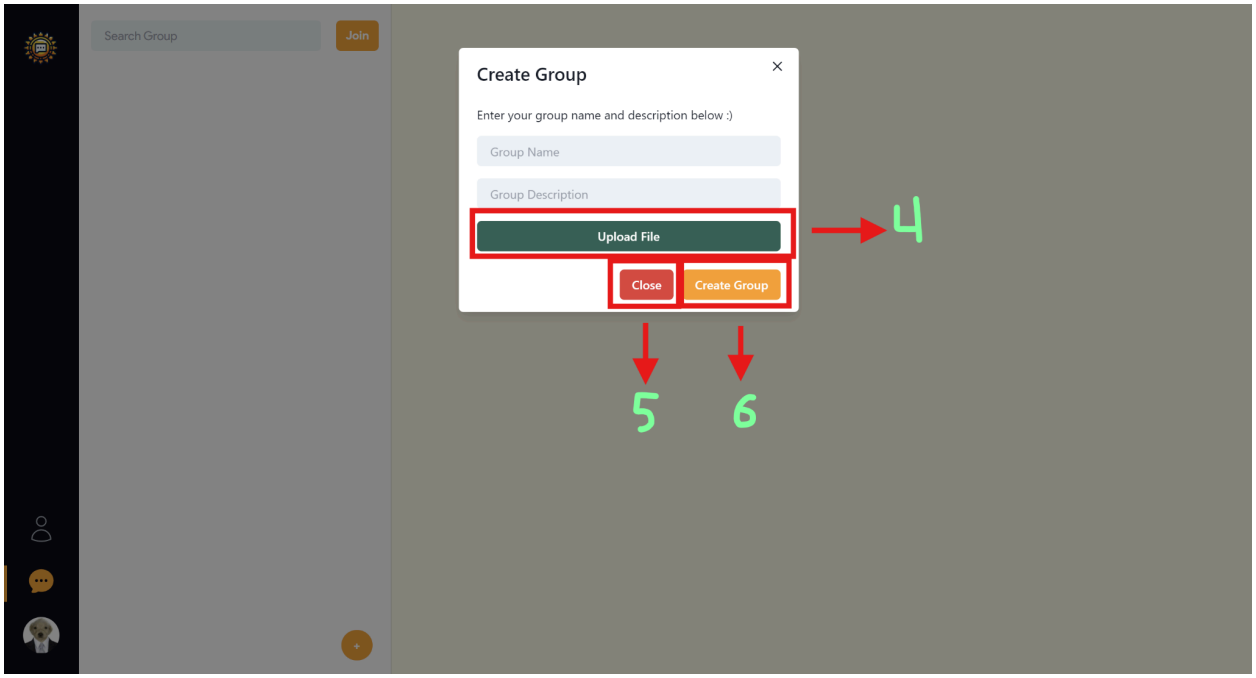
Num.	Feature
1	If the button is clicked, it will redirect to the friend page
2	If the button is clicked, it will redirect to the chat page
3	If the button is clicked, it will redirect to the profile page
4	If the button is clicked, it will redirect to the home page

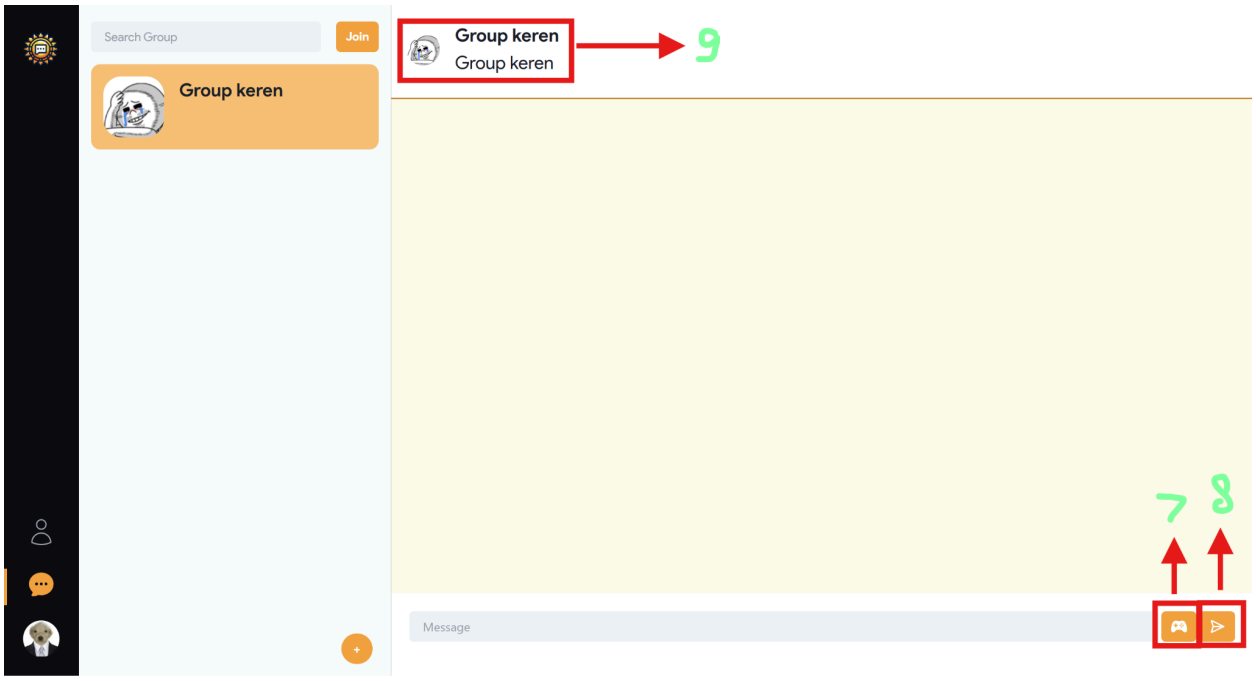
Chat Page: Group Page

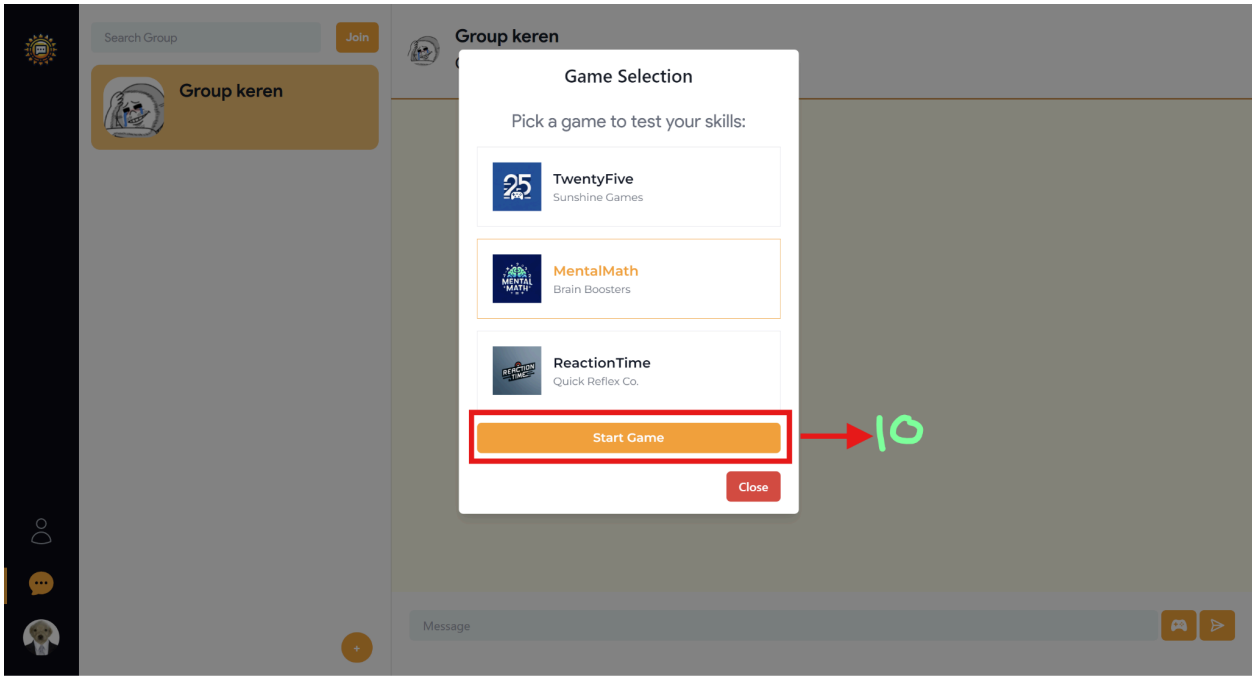
Preview :

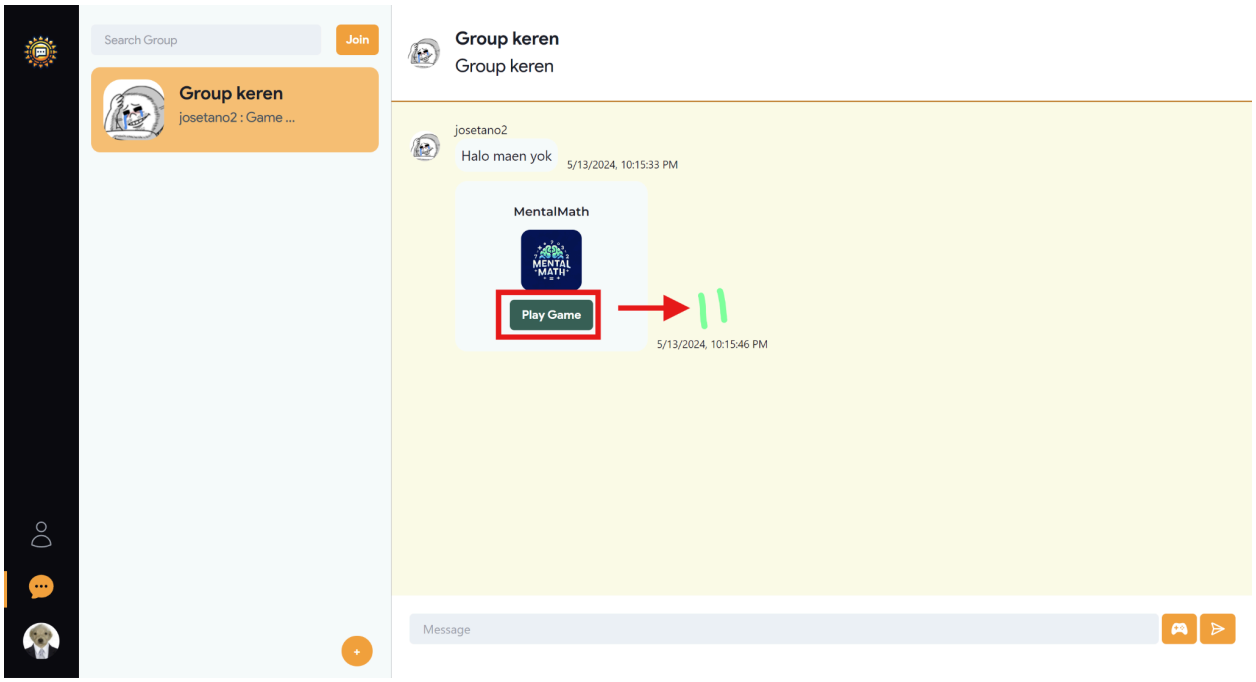


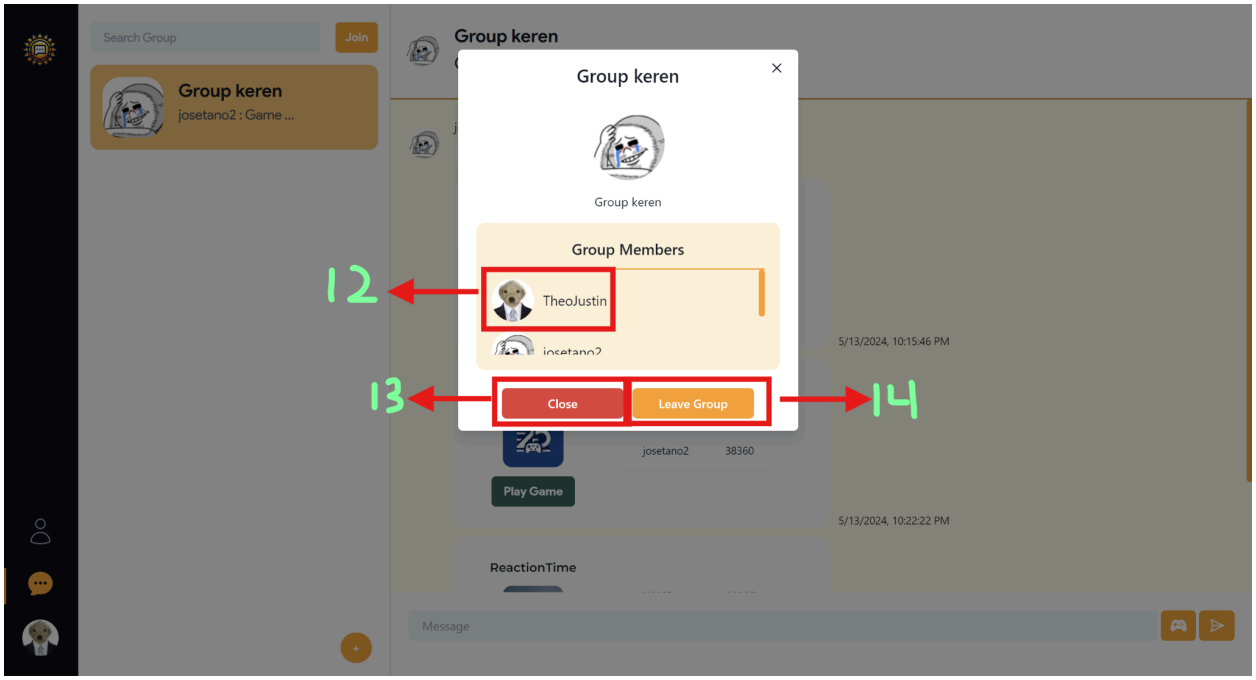



Search Group
Join
Create Group
Enter your group name and description below :)
Group Name
Group Description
Upload File
Close
Create Group
4
5
6


Search Group
Join
Group keren
Group keren
Group keren
9
7
8
Message


Search Group
Join
Group keren
Group keren
Game Selection
Pick a game to test your skills:
TwentyFive
Sunshine Games
MentalMath
Brain Boosters
ReactionTime
Quick Reflex Co.
Start Game
Close
10
Message


Search Group
Join
Group keren
josetano2 : Game ...
Group keren
Group keren
josetano2
Halo maen yok
5/13/2024, 10:15:33 PM
MentalMath
Play Game
11
5/13/2024, 10:15:46 PM
Message



On the Group Page, the sidebar includes a search function to find groups. It also features a '+' icon, allowing users to create a group with a specified name and description, and displays all groups the user has joined. Users can upload a file to set a group profile picture. Clicking on a group reveals all chats within that group, including games. At the bottom is a chat message input field and a controller icon to start a game within the group chat next to it. This feature allows members to play games together and compete for scores.

Feature Description :

Num.	Feature
1	If the button is clicked, a modal will pop up showing user input about the group name, group description, a button to upload a file setting up the group profile, and a submit button
2	Search bar to search groups that the user has joined
3	If the button is clicked, it will query all the groups in the blockchain and show the groups that can be joined. There will be a button to join the selected group.
4	A button to upload a file that can be stored as images to show the

	group profile.
5	Closes the create group modal
6	If the button is clicked, it will create a group based on the user input in the blockchain.
7	Displays all the game modals that can be played in the group
8	Sends the user input's chat to the group
9	Displays the group profile modal
10	Starts the game and invites all users to play in the group chat with the current game selected
11	Redirects the user to the game that is displayed
12	Displays the user profile selected
13	Closes the group profile modal
14	Removes your current user from the group user's list

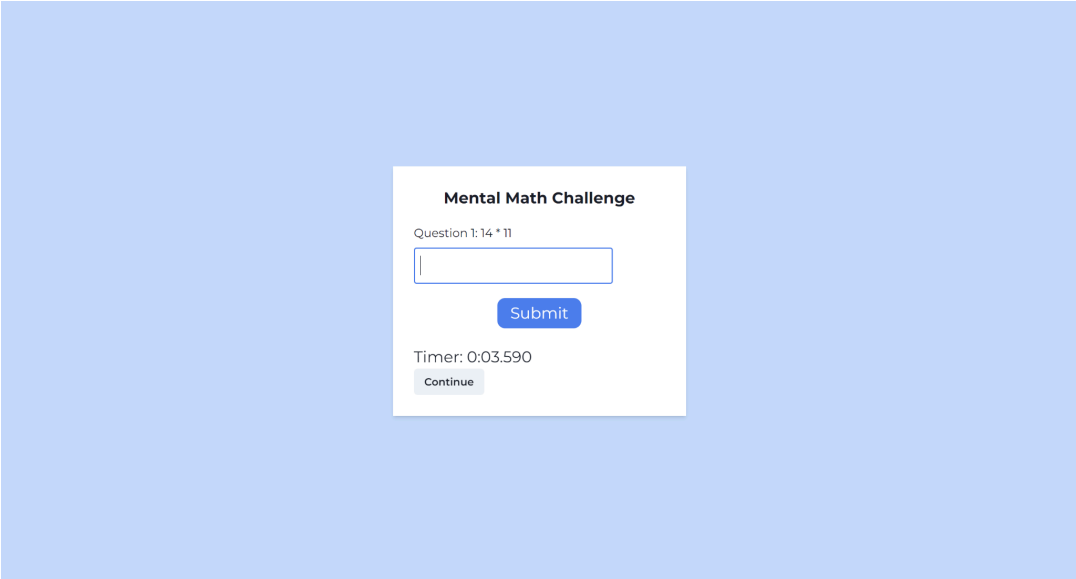
Game #1: TwentyFive

Preview :

In this game, when you start, a timer begins and you enter a game where numbers 1-25 are arranged randomly. Your task is to click the numbers in sequential order from 1 to 25. The faster you sort them, the higher your score will be. Once completed, you can continue and view your updated score.

Game #2: Mental Math

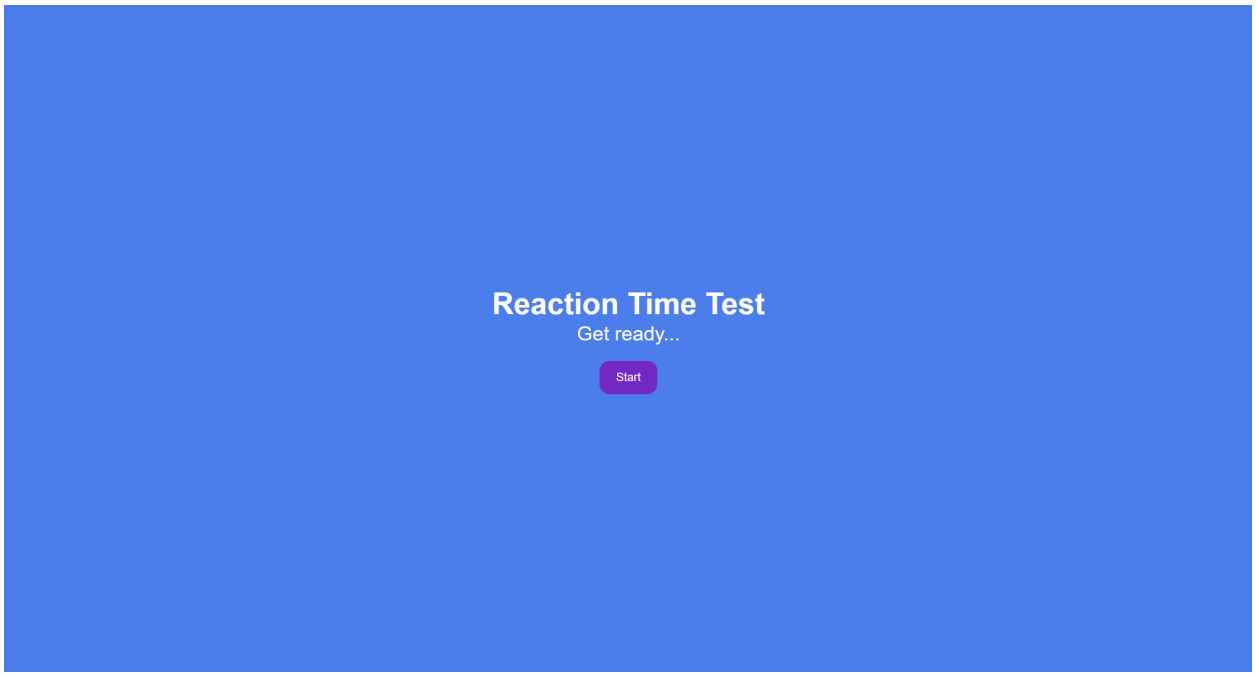
Preview :



In this game, once you start, a timer begins and you enter a game featuring a random maths problem. Your task is to provide the correct answer to the problem presented. The faster you answer correctly, the higher your score will be. Upon completion, you can continue and view your updated score.

Game #3: Reaction Test

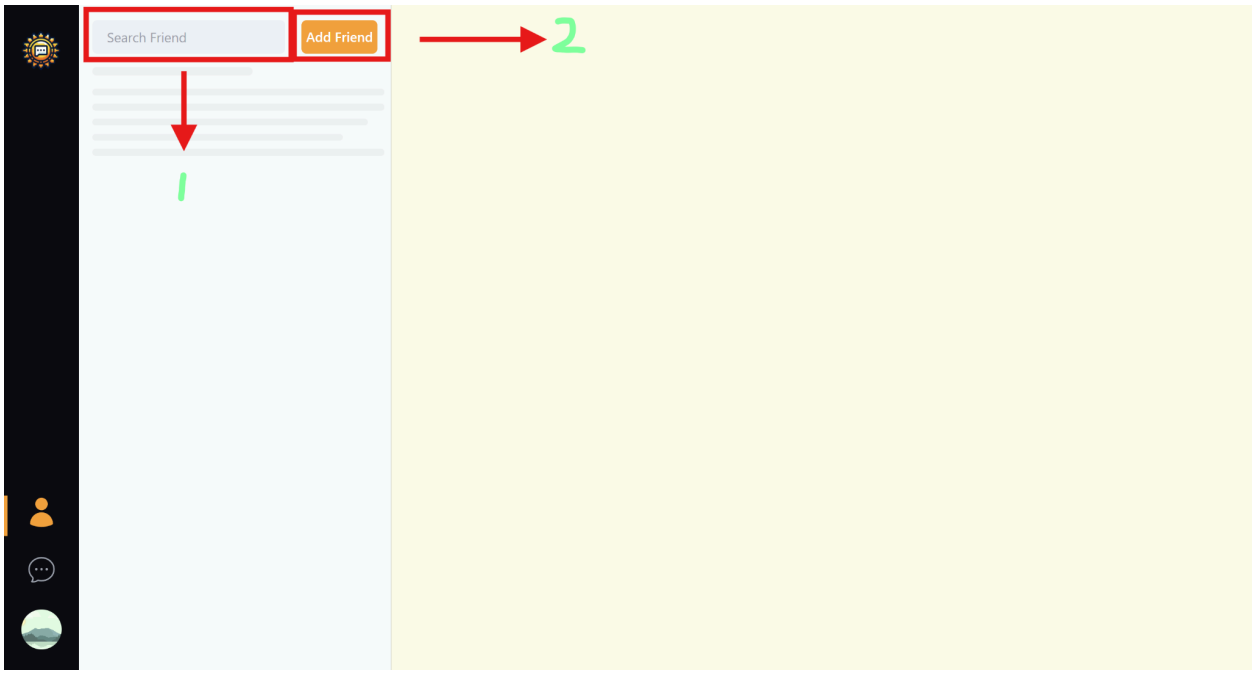
Preview :

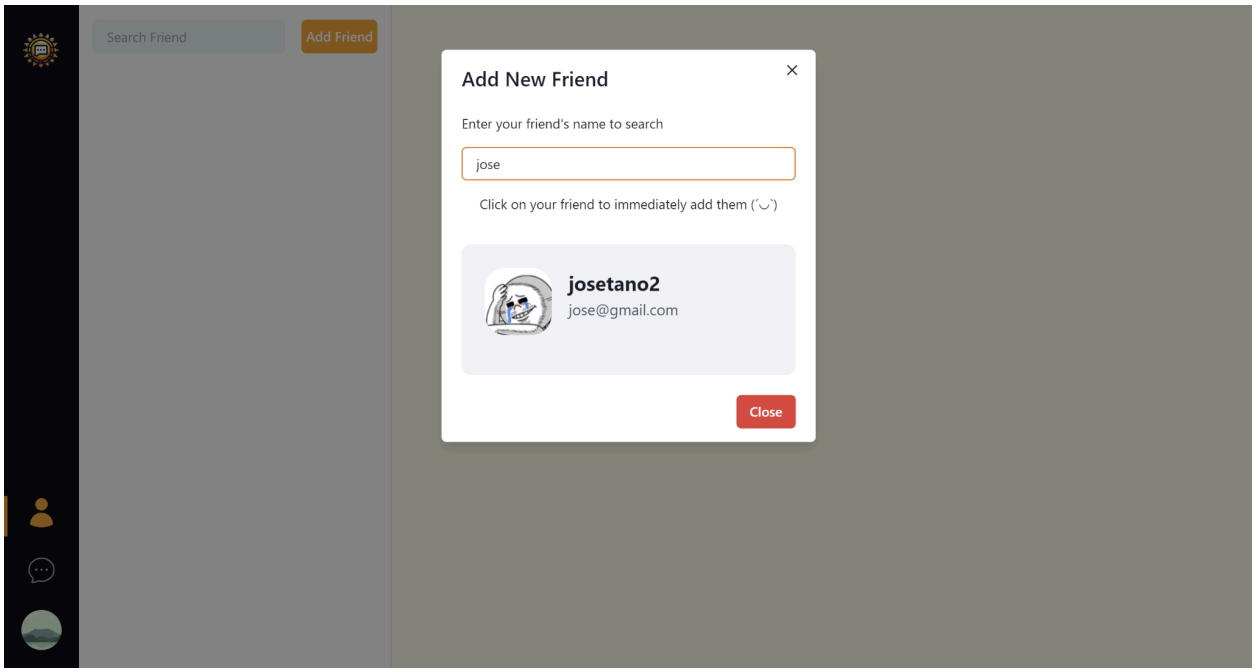


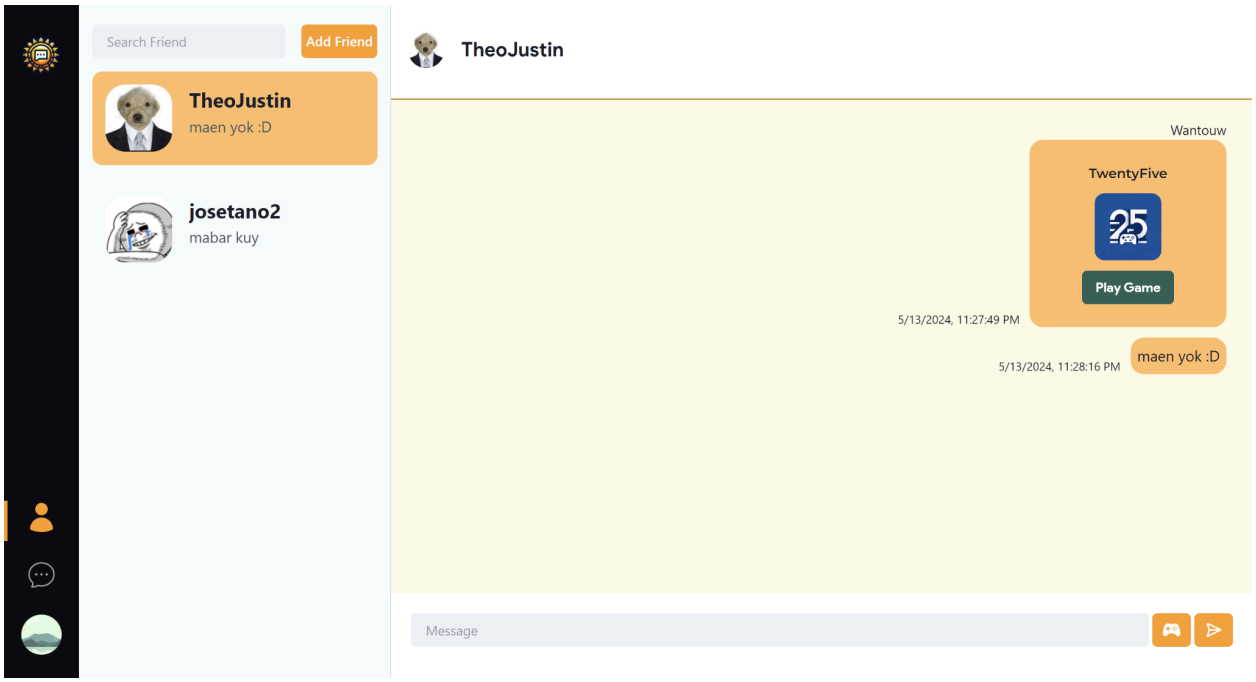
In this game, when you start, a timer begins and you enter a game where you must click on a green background as quickly as possible. If you click too early, a 'too early' message appears, so you must time your click precisely when the green background shows. The faster you correctly respond, the higher your score will be. Once finished, you can continue and view your updated score.

Chat Page: Friend Page

Preview :







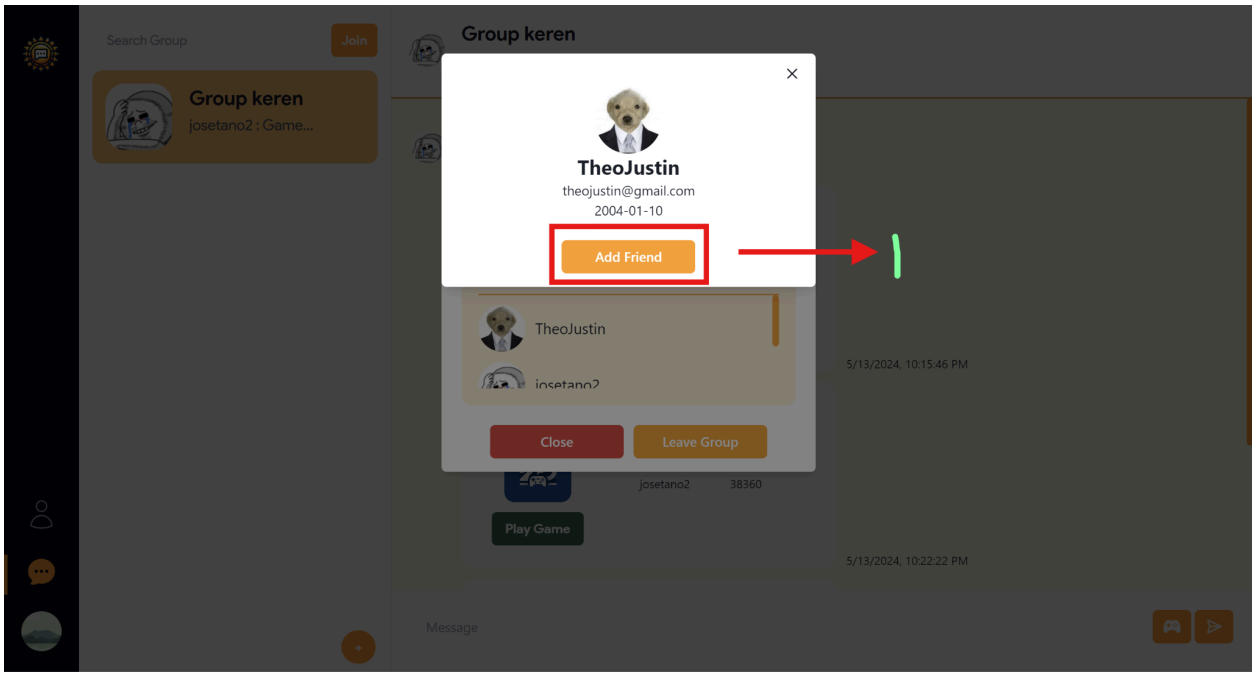
Feature Description :

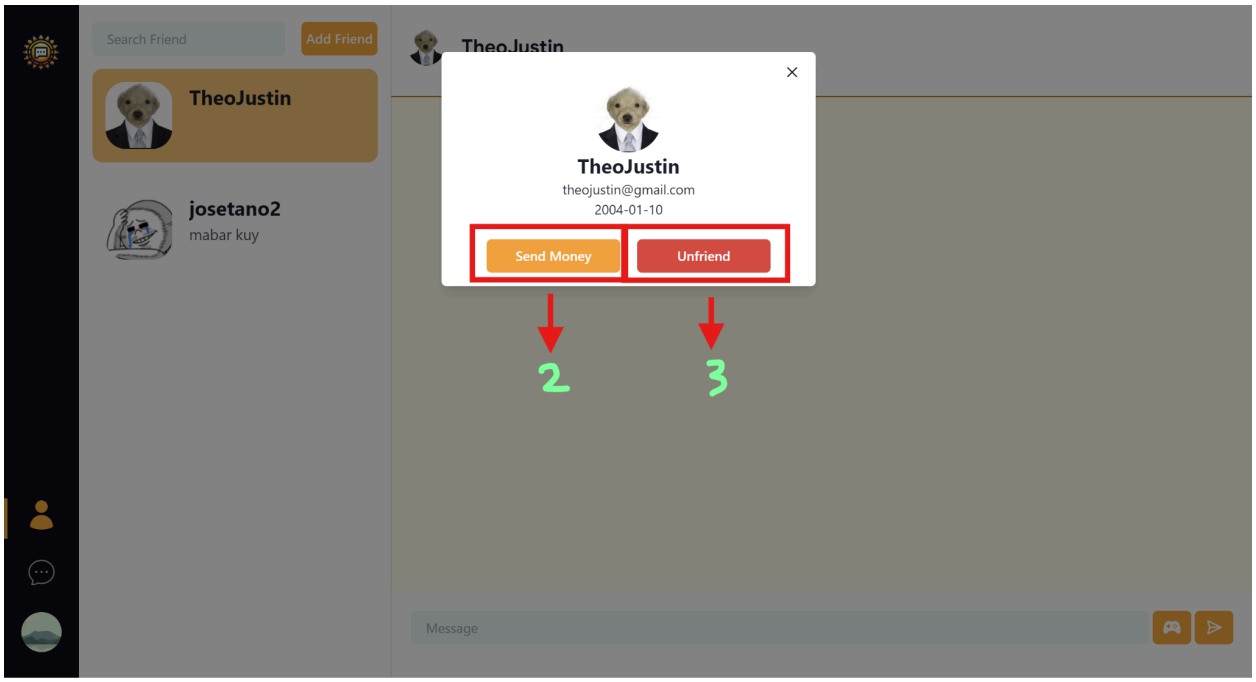
Num.	Feature
1	Searches the friend that is currently friends with the user.
2	Adds a friend from their current username, if clicked it will add the user to its friend list

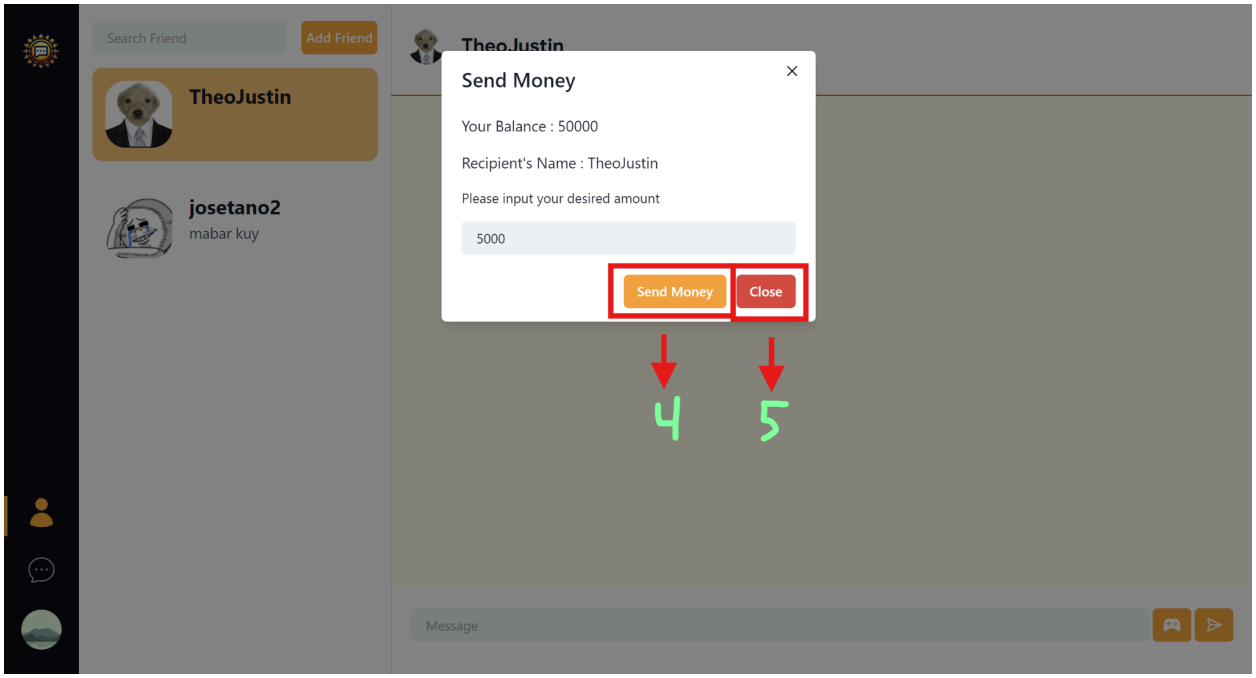
The friend page is almost the same as the group page, but it is exclusive to a two-person chat system. Here, users can add friends and search for their current friends, chat with them, and also play games with them. There is also a feature where there will be a cryptocurrency wallet transaction from this page which we will cover in the user profile page.

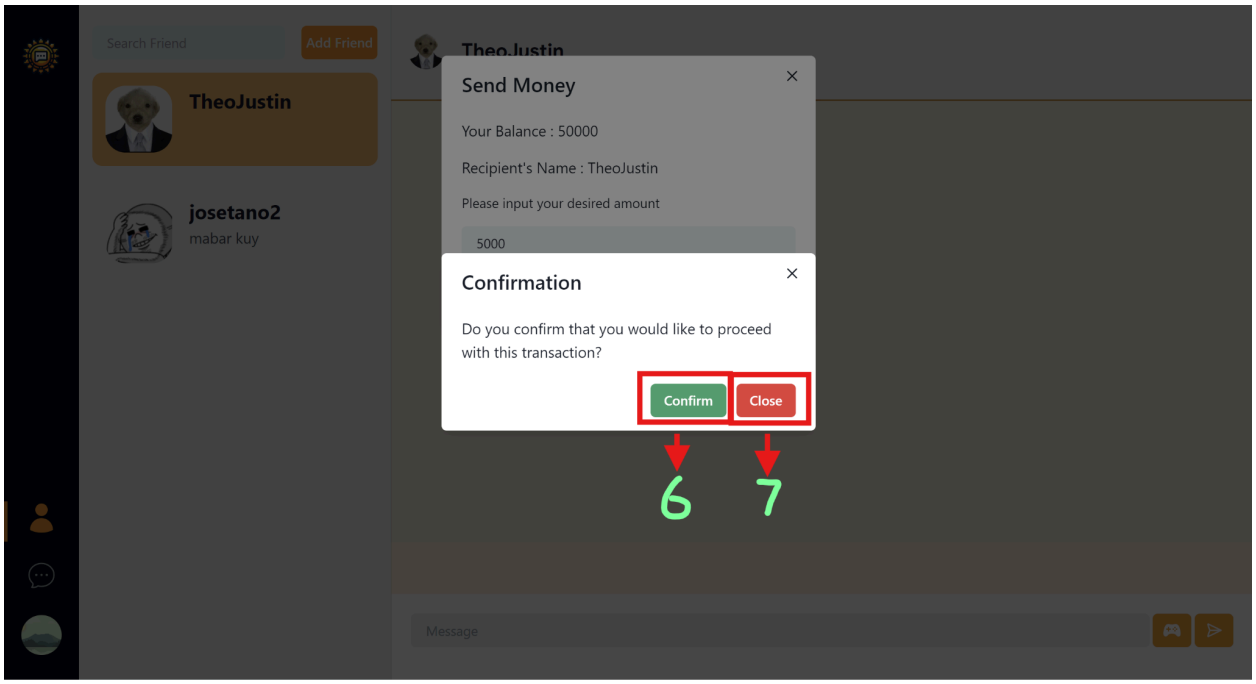
User Profile Page

Preview :









Feature Description :

Num.	Feature
1	Adds the selected user from the friend's list
2	Display the send money modal, showing the desired amount for

	sending cryptocurrency to the user.
3	Removes the user from the friend list
4	Validates the amount that it should not be negative and it should be more than the current user's money. then, displays a confirmation modal to the user.
5	Closes the send money modal
6	Sends the money to the current user selected, then deduct the current user's money
7	Closes the transaction confirmation modal.

By having this user profile page, we will also have the option to remove a friend that is from our current friend list and send a transaction to a friend.

If any questions occurred, or the need any discussion or details, please contact us :

- Email : theojustinx@gmail.com
- Telegram : https://t.me/theojustin
- Discord : tj_7

Link YouTube Sunshine:
https://youtu.be/5CAqpu-hQPc