

SimpleSocial

User Flow Diagram

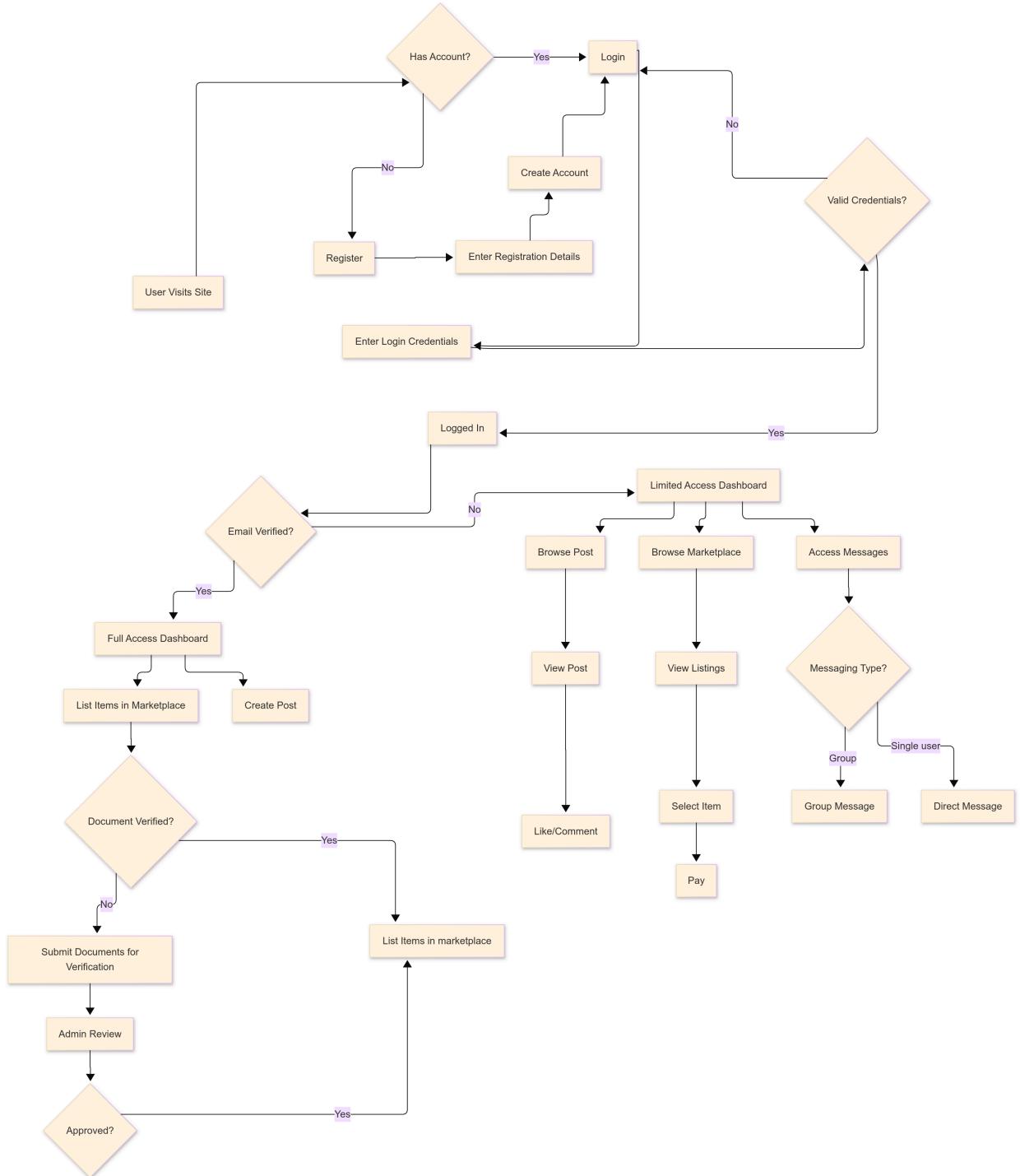


Figure 1: User Flow Diagram for Cloak n Web

Getting Started

Registration/Login

1. Follow the build instructions in the readme and then navigate to the shown local url in your web browser. You will see the landing page.

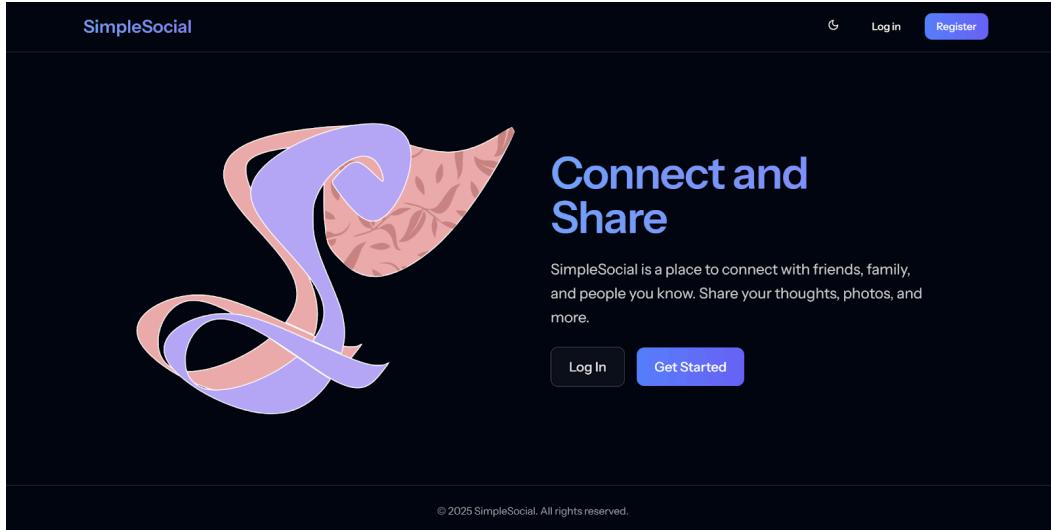


Figure 2: Cloak n Web Landing Page

2. If you are a new user:

- Click the “Get Started” or “Register” button.
- Fill in your details (e.g., username, email, password).
- Make sure to follow password guidelines as prompted.
- Click “Create Account” to submit your credentials.
- You will be automatically logged in after successful registration.

A screenshot of the user registration form. The form is titled "Create an account" and includes a sub-instruction: "Enter your details below to create your account". The form consists of several input fields:

- Name: A text input field containing "Full name".
- Username: A text input field containing "Choose a username".
- Email address: A text input field containing "email@example.com".
- Password: A text input field containing "Password".
- Confirm password: A text input field containing "Confirm password".
- Profile Picture (Optional): A file input field with the placeholder "Choose File No file chosen".

A large blue "Create account" button is located at the bottom right of the form.

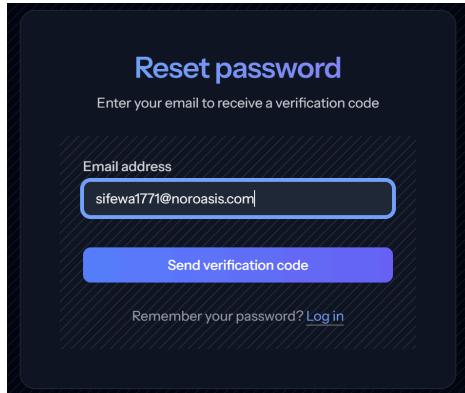
Figure 3: User Registration Form

3. If you already have an account:

- Click “Login”.
- Enter your registered email address and password.
- Click “Login” to access your account.

4. If you have forgotten your password:

- Click the “Forgot password?” link on the login page.
- Enter your registered email address and click “Send Verification Code”.



A screenshot of a mobile application interface titled "Reset password". It displays a text input field labeled "Email address" containing "sifewa1771@norasis.com". Below the input field is a blue button labeled "Send verification code". At the bottom of the screen, there is a link "Remember your password? Log in".

Figure 4: Forgot Password - Email Entry

- Check your email for the One-Time Password (OTP).

Reset Your Password

Hi testr,

We received a request to reset your password. Your verification code is:

3 0 4 7 2 4

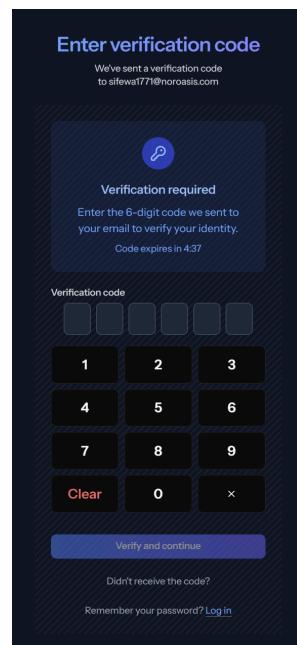
This code will expire in 5 minutes.

If you didn't request to reset your password, please ignore this email or contact support if you have concerns about your account security.

Thanks,

SimpleSocial

Figure 5: Example OTP Email



A screenshot of a mobile application interface titled "Enter verification code". It displays a message "We've sent a verification code to sifewa1771@norasis.com". Below this is a section titled "Verification required" with the instruction "Enter the 6-digit code we sent to your email to verify your identity." A note says "Code expires in 4:37". A virtual keyboard is displayed with digits 1 through 9, a "Clear" button, a "0" button, and a multiplier "x" button. At the bottom are buttons for "Verify and continue", "Didn't receive the code?", and "Remember your password? Log in".

Figure 6: Virtual Keyboard for OTP Entry

- A virtual keyboard will appear. Enter the OTP received via email using this keyboard.
- Create and confirm your new password. You will receive a confirmation upon successful reset.

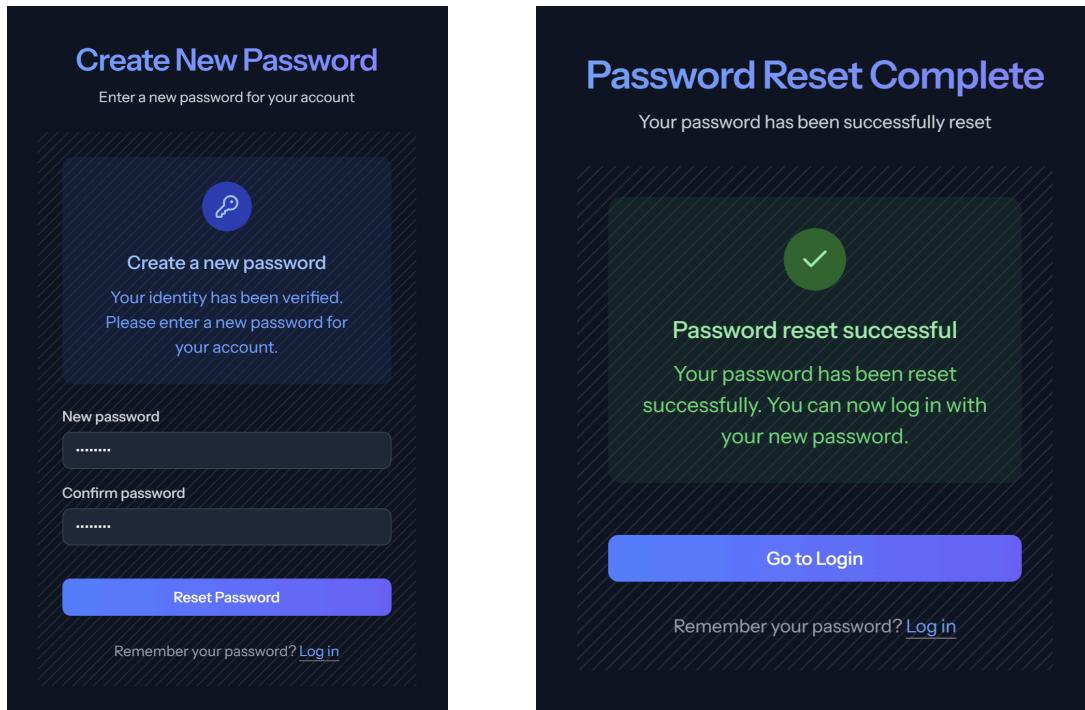


Figure 7: Setting New Password (left) and Confirmation (right)

Account Verification

Once logged in, you will see prompts for Email Verification and Document Verification on your dashboard. Email verification is required for creating new posts while document verification is required for making marketplace listings.

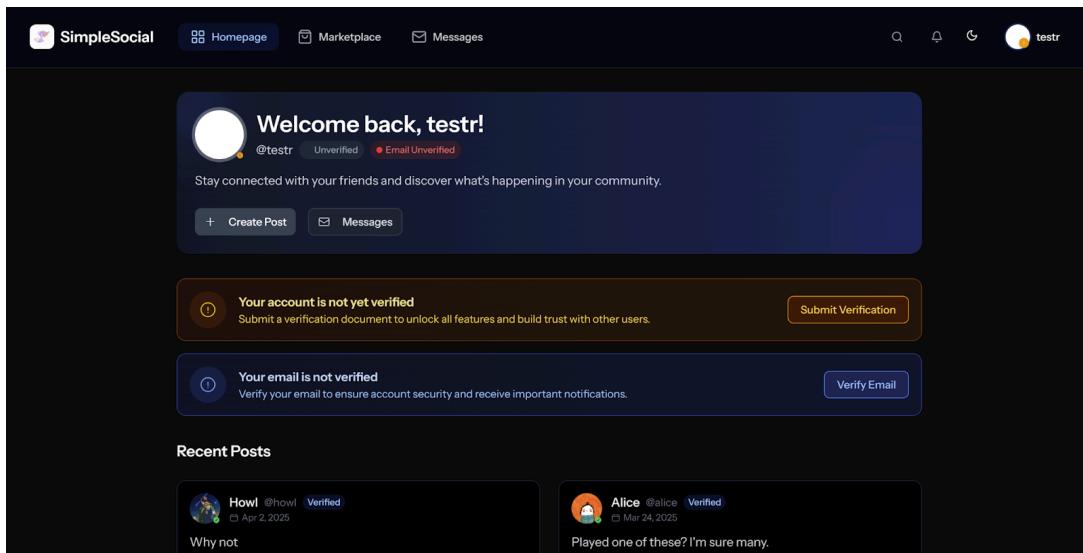


Figure 8: Dashboard showing Verification Prompts

Email Verification

Email verification is required to create posts.

1. Click the “Verify Email” button.
2. In the dialogue box that appears, click “Send Verification Code”.

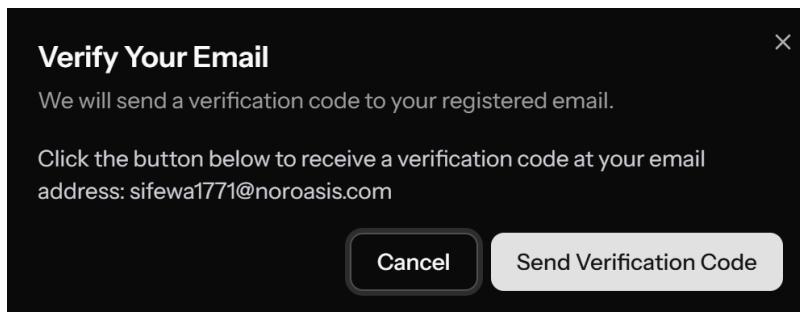


Figure 9: Email Verification Code Request

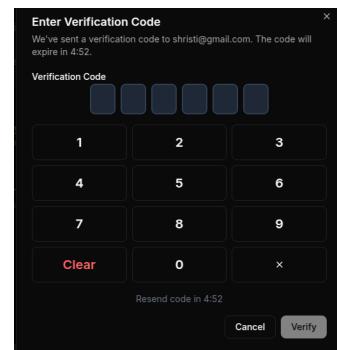


Figure 10: Entering Email Verification OTP

3. Enter the OTP sent to your registered email address.
4. Upon successful verification, the prompt will disappear.

Document Verification

Document verification is required to list products on the marketplace. Even if document verification is done, the individual products are still unverified and everyone can see it to be so. For document verification:

1. Click the “Verify Document” button.
2. In the dialogue box, upload your document (supported formats: JPG, PDF, PNG).
3. Click the “Submit” button.

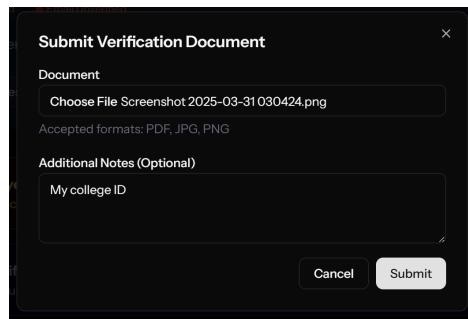


Figure 11: Document Upload for Verification

4. After submission, the prompt disappears, and your status will show as “Verification Pending” until an administrator manually reviews and approves your document.

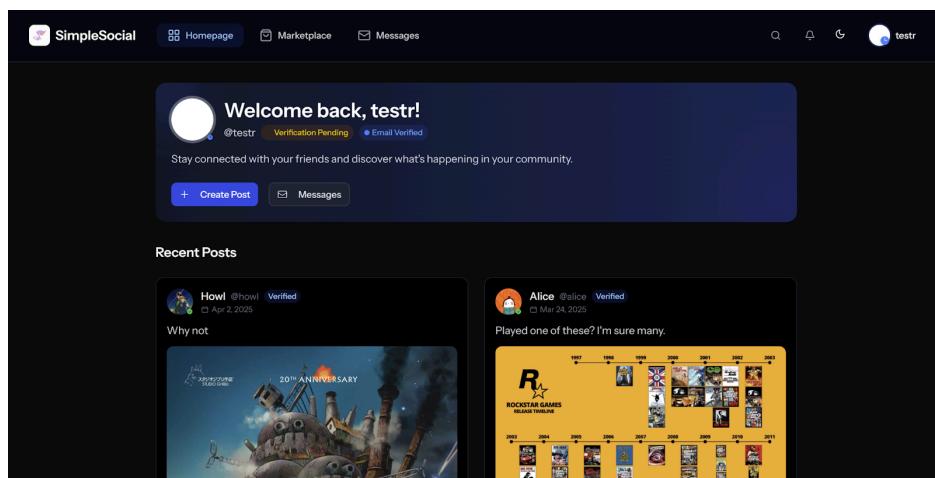


Figure 12: Document Verification Pending Status

Purchasing on the Marketplace

1. Browse available listings in the Marketplace section.

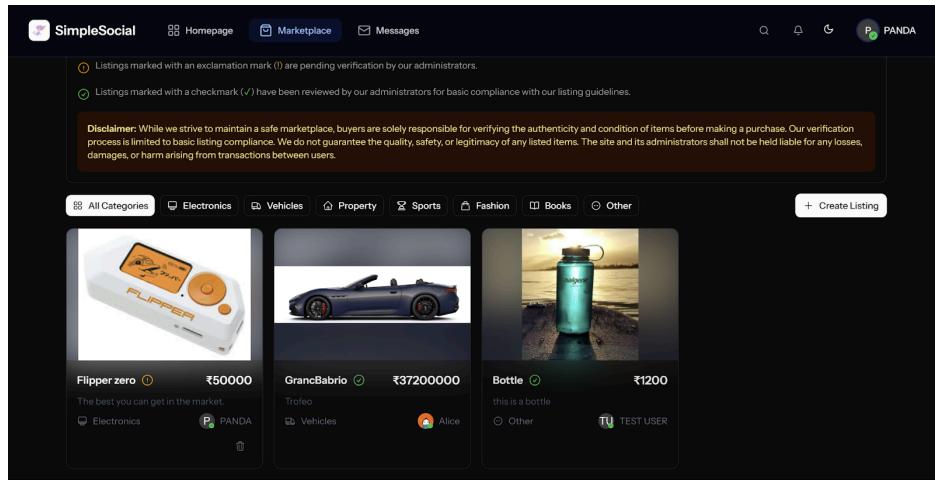


Figure 13: Browsing Marketplace Listings

2. Select an item you wish to purchase and choose your preferred mode of payment.

Two screenshots side-by-side. The left screenshot shows the product details for a 'Flipper zero' (Pending Verification, ₹50000, Electronics by PANDA). It includes a large image of the device, a description ('The best you can get in the market.'), and seller information ('Category: Electronics', 'Seller: PANDA'). The right screenshot shows the payment details for ₹50000. It has a blue header with the amount '₹50000'. Below it is a 'Payment Details' section with the sub-instruction 'Choose your preferred payment method'. It lists four options: 'Card' (selected), 'UPI', 'Net Banking', and 'Bitcoin'. Below these are fields for 'Card Number' (1234 5678 9012 3456), 'Expiry Date' (MM/YY), 'CVV' (123), and 'Name on Card' (John Doe). At the bottom is a large blue button labeled 'Pay ₹50000'.

Figure 14: Selecting an Item and Payment Method

3. Upon filling the fields appropriately and on successful payment, a confirmation prompt will appear.

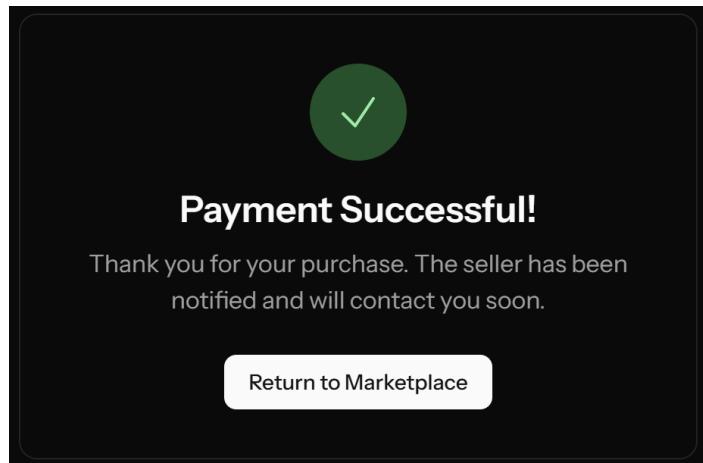


Figure 15: Payment Successful Confirmation

Reporting a User

Reporting a user can be done by visiting their profile and clicking on the report button. You have to specify a reason, a category of report and optionally evidence in appropriate format.

A dark-themed modal dialog box titled "Report User: Alice". It contains fields for "Category" (a dropdown menu with "Select a category"), "Reason" (a text area with placeholder "Provide details about why you are reporting alice..."), and "Attach Evidence (Optional)" (a section with a "Choose File" button, showing "No file chosen", and a note "Max file size: 5MB. Allowed types: JPG, PNG, PDF, DOC, DOCX"). At the bottom are "Cancel" and "Submit Report" buttons.

Figure 16: Reporting a User

Other features

You can send friend requests to other users, chat to other users, create group chats and get added by other users to their group chats.

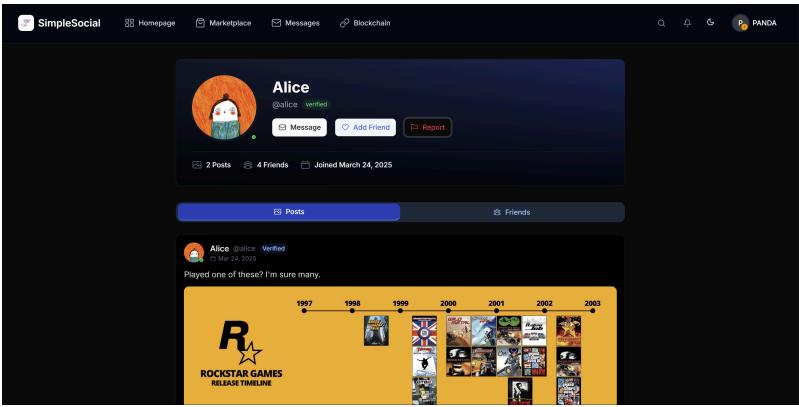


Figure 17: Add Friend

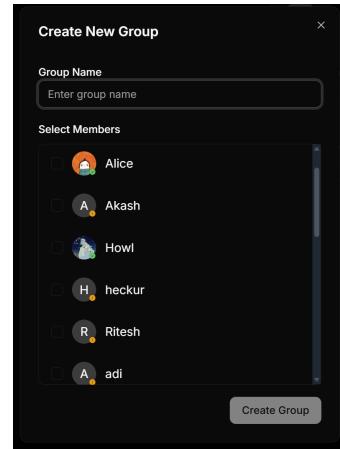


Figure 18: Create Group

Premium Features (Verified Users Only)

We believe in free speech and us such do not prohibit users without verification. However having some of the features behind these features is necessary to prevent abuse. Creating posts and listing items on the marketplace require account verification (Email for posts, Document for listings).

Creating Posts

1. Navigate to your dashboard and click the “Create Post” button.
2. Ensure your email address is verified.
3. Add text content and optionally attach files (max 5MB per attachment). Click “Post”.

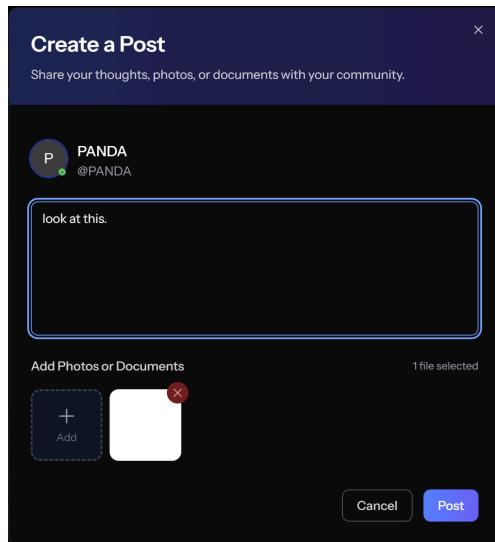


Figure 19: Create Post Interface

Marketplace Listing

1. Navigate to the “Marketplace” section via the navigation bar.
2. Ensure your document verification is approved by an admin.
3. Click “Create Listing” and fill in the required details about the item.

Create New Listing

Title: Flipper zero

Price: ₹ 50000

Category: Electronics

Description: The best you can get in the market.

Photos: Add Photos

Cancel Create Listing

Figure 20: Create Marketplace Listing Form

- Submit the listing for review by an administrator.

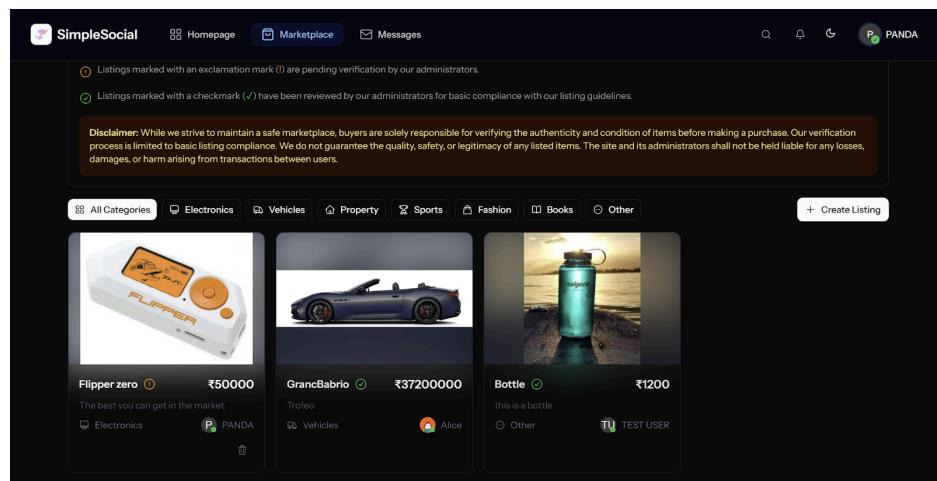


Figure 21: Marketplace view showing user's listings (pending/approved)

Note: Listings marked with an exclamation mark (!) are awaiting admin approval and are not visible to other users. Listings marked with a check mark (✓) have been approved.

Managing Your Account

Viewing Your Profile

- Click on your username in the top right corner of the navigation bar to access your profile page.

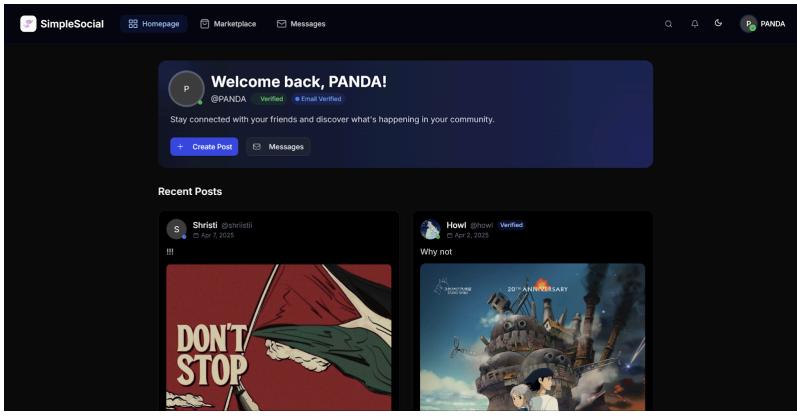


Figure 22: Accessing Profile Page via Username

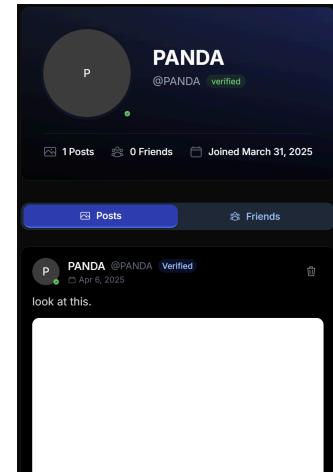


Figure 23: User Profile Page Overview

2. Your profile page displays your information, posts you've made, and your friends list.
- Note:** You can delete your own posts directly from your profile page.

Editing Your Profile

1. Click on your profile icon in the navigation bar to open the dropdown menu.
2. Select “Settings” from the menu.
3. On the Settings page, you can update your profile picture, username, email address, and password.

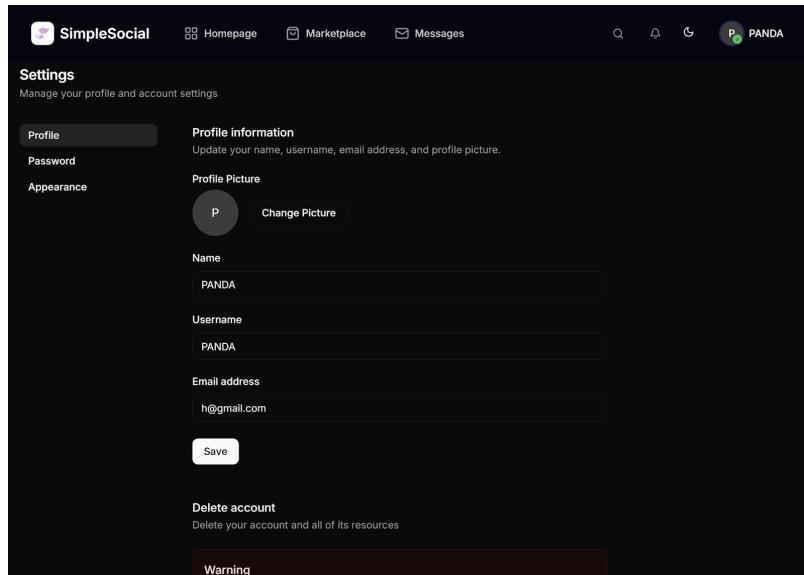


Figure 24: Account Settings Page

Deleting Your Account

1. Navigate to the “Settings” page as described in the “Editing Your Profile” section. Scroll to the bottom to find the “Delete Account” button.

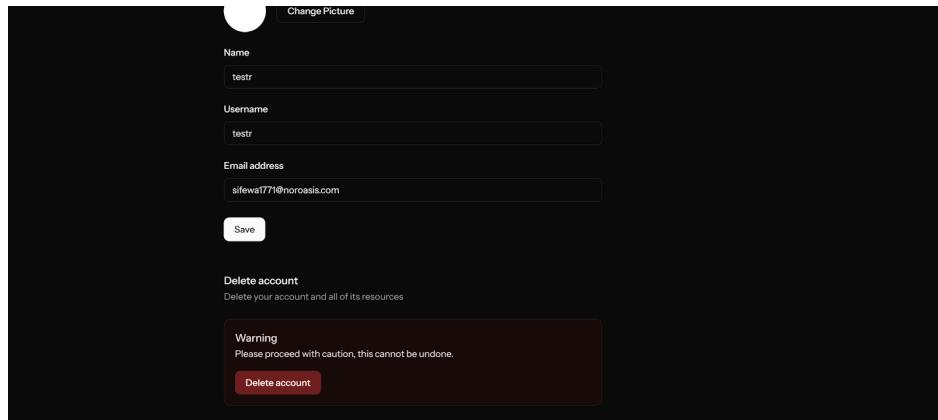


Figure 25: Delete Account Button in Settings

2. Click the “Delete Account” button.
3. A confirmation dialog box will appear. You must enter your current password to confirm the deletion.

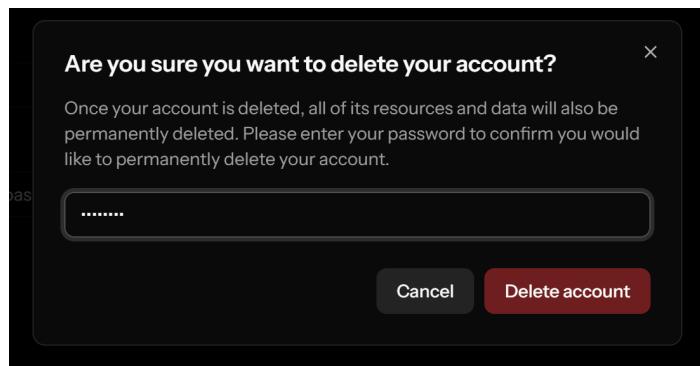


Figure 26: Account Deletion Confirmation Dialog

Warning: Account deletion is irreversible. All your posts, listings, group memberships, and data will be permanently removed. Yes, we do not keep your data.

Extra Features

The site includes advanced features like end-to-end encryption for direct messages and blockchain integration for user verification.

Message Encryption (E2EE)

End-to-end encryption enhances the privacy of your direct messages.

1. **Key Generation:** Upon your first login or when encryption is enabled, you might be prompted to generate a public/private key pair.
2. **Private Key Download:** Your private key will be automatically downloaded as a .txt file. **Store this file securely and privately.** It is required to decrypt messages.

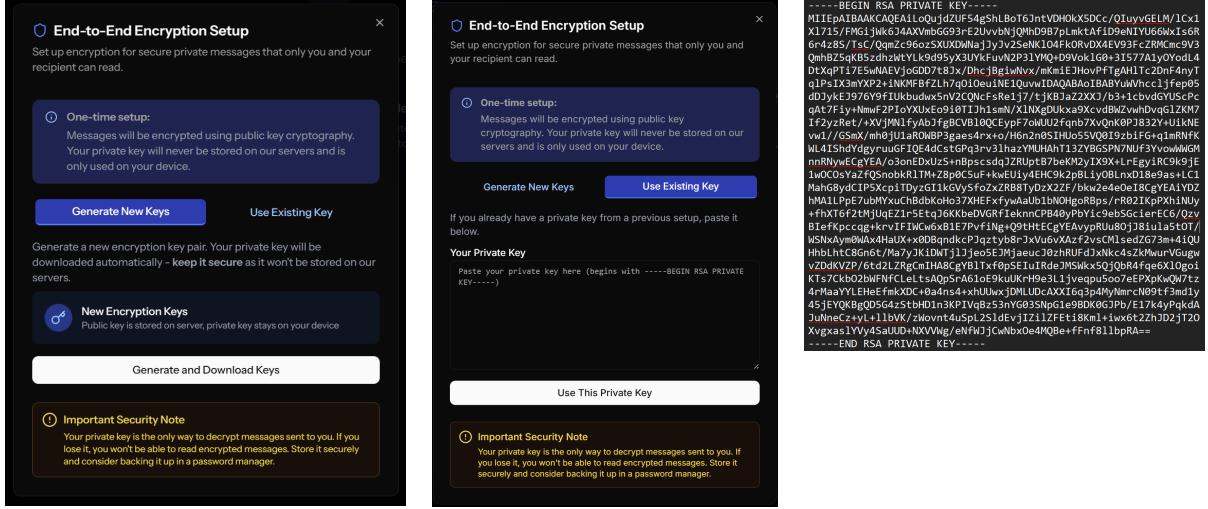


Figure 27: Key Generation Prompt, Download Confirmation, and Example Key File

Note: E2EE is only active for conversations where both users have opted in and have their keys loaded. Your private key is **not** stored on the server. It is removed from the application's memory when you log out or after 2 hours whichever is earlier ;). **Losing your private key means you will permanently lose access to past encrypted messages.**

Don't worry though, you can generate a new key-pair and continue to converse in end-to-end encrypted mode.

Sending and Reading Encrypted Messages

1. **Toggle Encryption:** In a direct message chat window, click the lock icon in the message input area to toggle E2EE on (green lock) or off (grey lock).

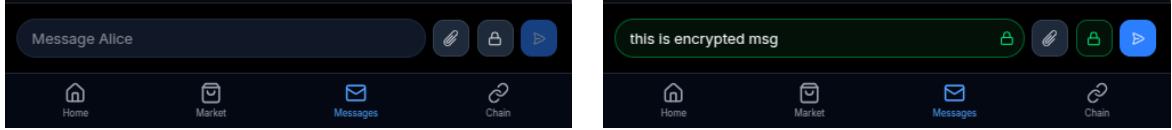


Figure 28: Toggling E2EE: Off (left) and On (right)

2. **Send Encrypted:** When the lock icon is green, your message will be sent encrypted.
3. **Identify Encrypted Messages:** Messages protected by E2EE will have an "E2E" indicator.

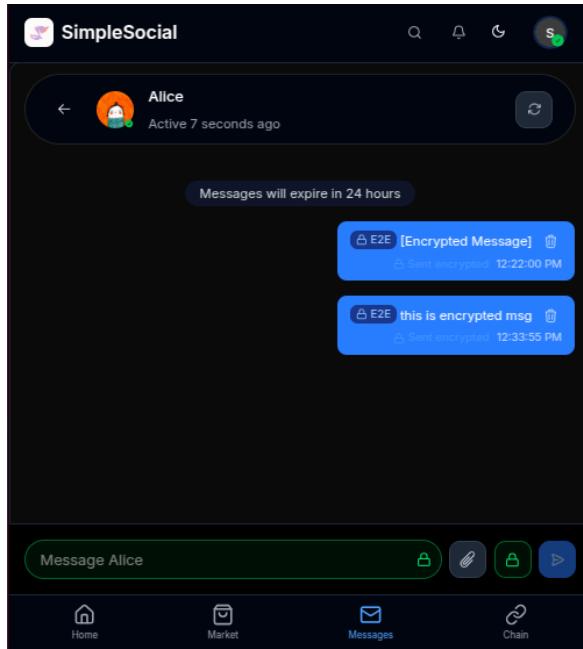


Figure 29: E2E Indicator on an Encrypted Message

4. **Decryption:** Only the intended recipient who has loaded their corresponding private key can decrypt and read the message.
5. The caveat is that even you can't see your sent messages after a reload. This would involve message duplication and encryption with public keys of both the parties but we didn't do so to avoid the two party vulnerability where a single person being compromised at a point could lead to the compromise of messages sent both ways.

Managing Your Encryption Keys

1. **Using Existing Key:** If you log in on a new device, start a new session, or previously opted out, you may need to reload your private key. Look for an option like "Use Existing Key" or a prompt to load your key.
2. **Load Key:** Paste the content of your saved private key file (.txt) into the provided field.
3. **Validation:** The system will validate the key and enable decryption/encryption for your session.

Note: The loaded private key typically remains active for the duration of your session (e.g., 2 hours, or until logout).

Blockchain Verification

Document verification status is recorded on a blockchain for enhanced trust and transparency.

1. Navigate to the "Blockchain" section using the navigation bar.

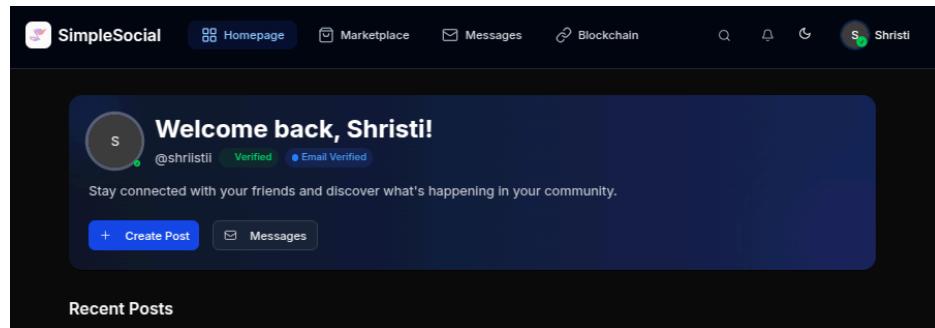


Figure 30: Accessing the Blockchain Section

2. The “Your Verification Status” panel shows your current document verification status as recorded on the blockchain.

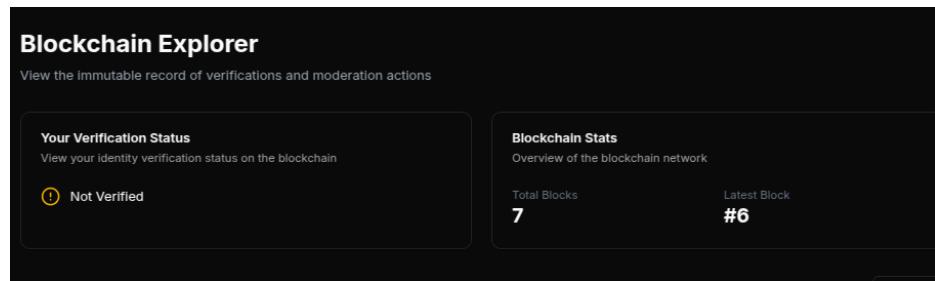


Figure 31: Blockchain Verification Status Panel (Initial/Pending)

3. Once your document is verified by an admin and recorded, you will see a “Verified Identity” status with a green checkmark, along with your associated block number.

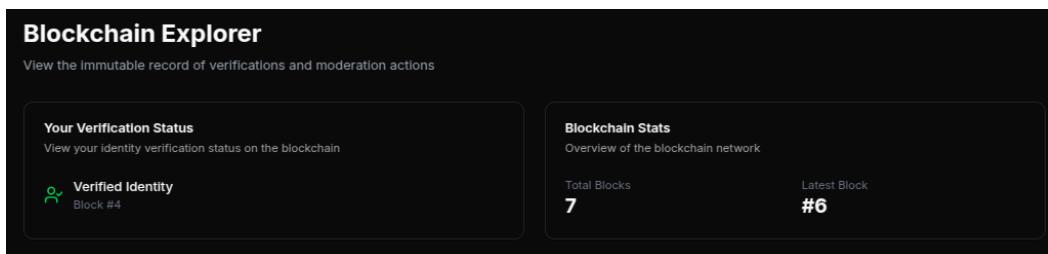


Figure 32: Blockchain Verification Status Panel (Verified)

The screenshot shows the Blockchain Explorer interface with the following sections:

- Your Verification Status:** Shows a "Verified Identity" status with "Block #4".
- Blockchain Stats:** Displays "Total Blocks" as 7 and "Latest Block" as #6.
- Blockchain History:** A list of verification records:
 - Block #6: verification, user_verified, User ID: 11, timestamp: 4/7/2025, 6:20:56 PM. Hash: eb5e5dd179fc1661a2ca0ae7a3bcf2f5746cab13637e857a0e418af38aea377d
 - Block #5: verification, user_verified, User ID: 26, timestamp: 4/7/2025, 4:26:51 PM. Hash: 51111ffc49e15ad6ddfb8a30cf955e337795a75318a0a7d98527003393d58d0
 - Block #4: verification, user_verified, User ID: 0, timestamp: 4/7/2025, 4:25:23 PM. Hash: 51111ffc49e15ad6ddfb8a30cf955e337795a75318a0a7d98527003393d58d0

Figure 33: Blockchain History Section showing Verification Records

Note: The “Blockchain History” section provides a transparent log of all verification events. Each record typically includes a block number, verification type (e.g., document verification), user ID, timestamp, and a unique transaction hash.