

# User Manual

**Objective:** Provide a detailed guide for end-users

## **1. Steps to interact with the DApp (e.g., connecting a wallet, transferring tokens, checking balances)**

### **1. Installing MetaMask**

MetaMask is a browser extension wallet that enables users to interact with Ethereum-based decentralized applications.

#### **Steps to Install MetaMask:**

##### **1. Open Your Browser:**

MetaMask is available for browsers like Chrome, Firefox, Brave, and Edge.

##### **2. Go to the MetaMask Website:**

Visit the official MetaMask site: ( <https://metamask.io/> ).

##### **3. Install the Extension:**

- Click on the **Download** button.
- Choose the appropriate browser and follow the installation instructions.

##### **4. Add to Browser:**

- Click "Add to [Browser Name]".
- Confirm installation.

## **Setting Up MetaMask**

### **Create a New Wallet**

#### **1. Open MetaMask Extension:**

Click on the MetaMask icon in your browser toolbar.

#### **2. Click on "Get Started":**

Choose Create a Wallet.

#### **3. Set Up a Password:**

- Enter a secure password for your wallet.
- Agree to the terms and conditions.

#### **4. Backup Your Secret Recovery Phrase:**

- Write down the 12-word recovery phrase provided.
- Store it securely offline.
- Confirm the phrase by entering it in the correct order.

#### **5. Complete Setup:**

Your wallet is now ready to use!

## **Connecting MetaMask to the Crowdfunding App**

### **Switch to the Correct Network**

#### **1. Access Network Settings:**

- Open MetaMask and click on the network dropdown (default: Ethereum Mainnet).

#### **2. Add a New Network:**

- Click "Add Network".
- Enter the following details for the local Ganache network:
  - Network Name: Ganache
  - RPC URL: http://127.0.0.1:7545
  - Chain ID: 1337 (or as configured in Ganache)

- Currency Symbol: ETH

### 3. Save the Network:

- Click Save to add the network.

## Connect to the App

### 1. Open the Crowdfunding App:

Navigate to the app in your browser.

### 2. Connect MetaMask:

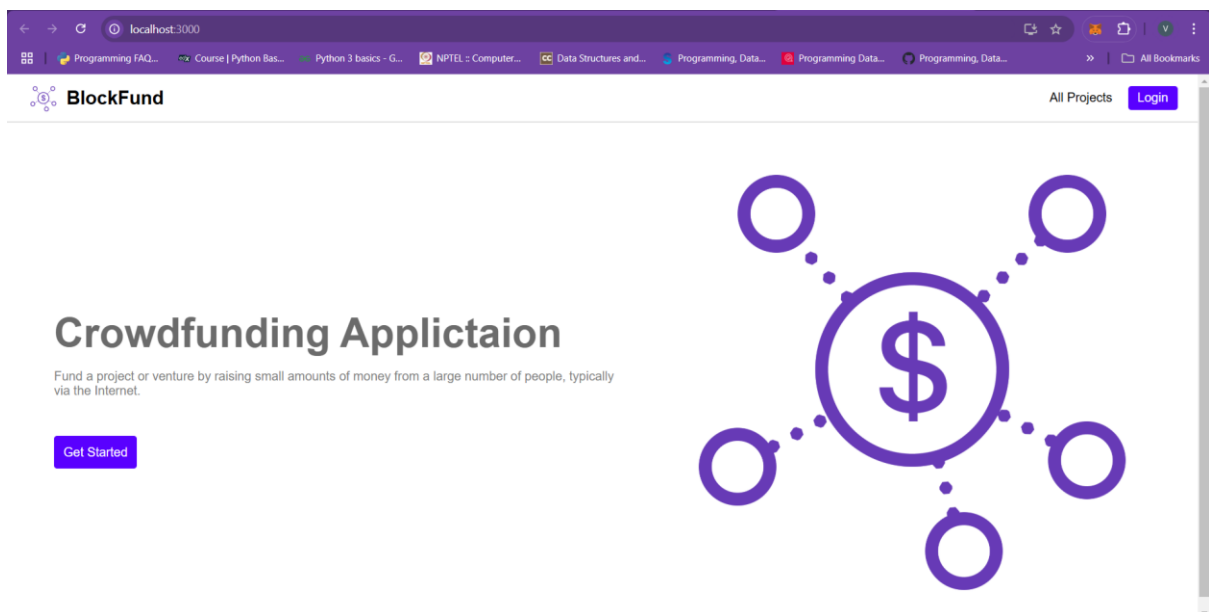
- Click the Connect Wallet button on the app.
- Authorize the connection in MetaMask.

### 3. Start Interacting:

Use your wallet to fund projects or create campaigns.

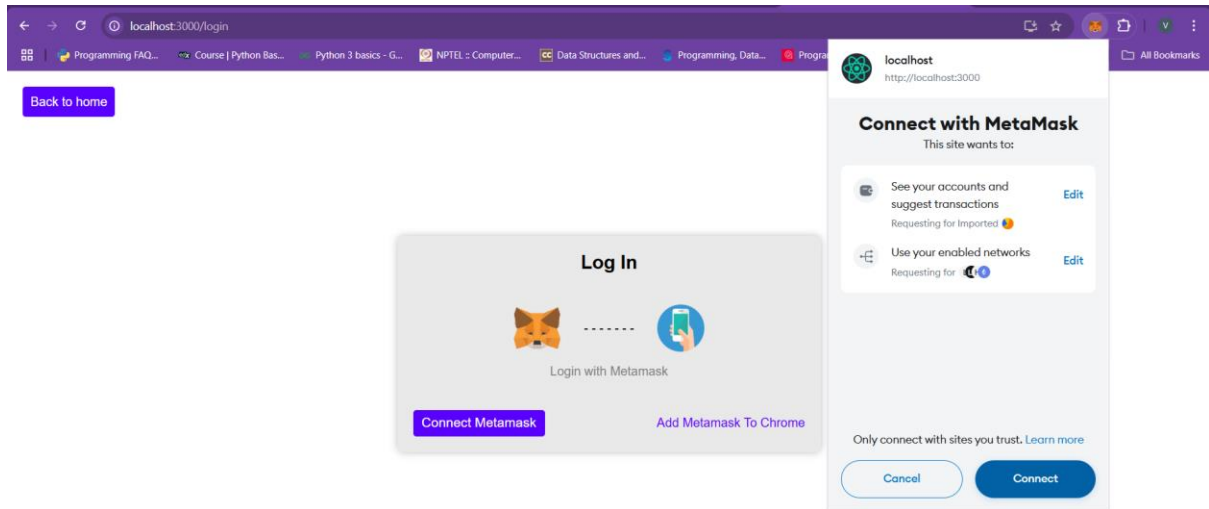
## 2. DApp Interface:

Click on get started and metamask connection going to pop up

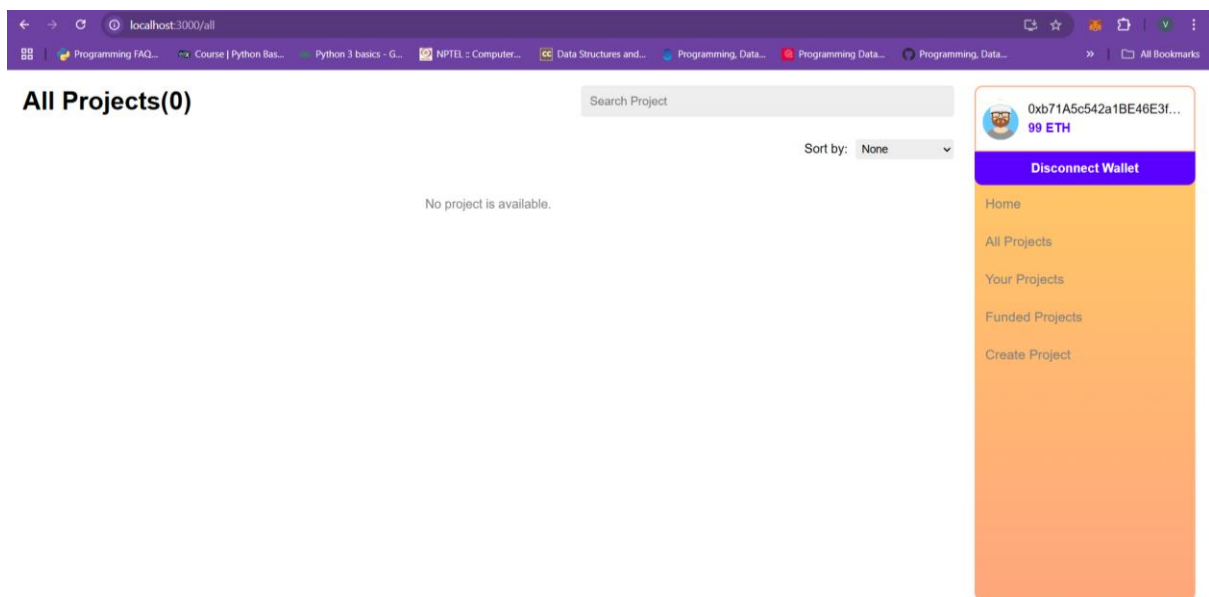


### 3. Connecting with wallet:

Import accounts from ganache and connect the local host to the metamask.

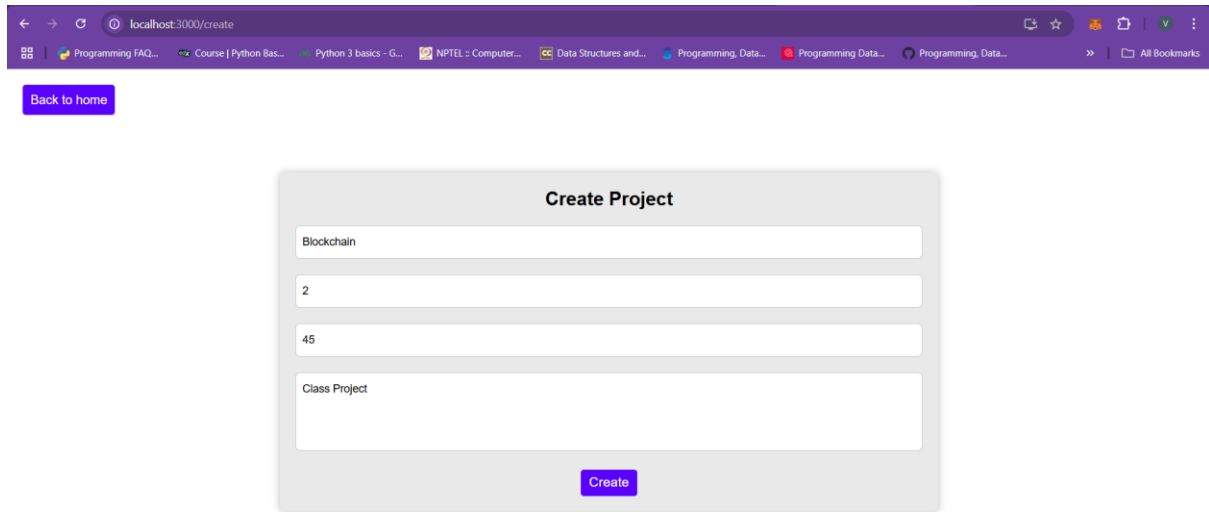


After connection with metamask, the interface looks like the below picture.



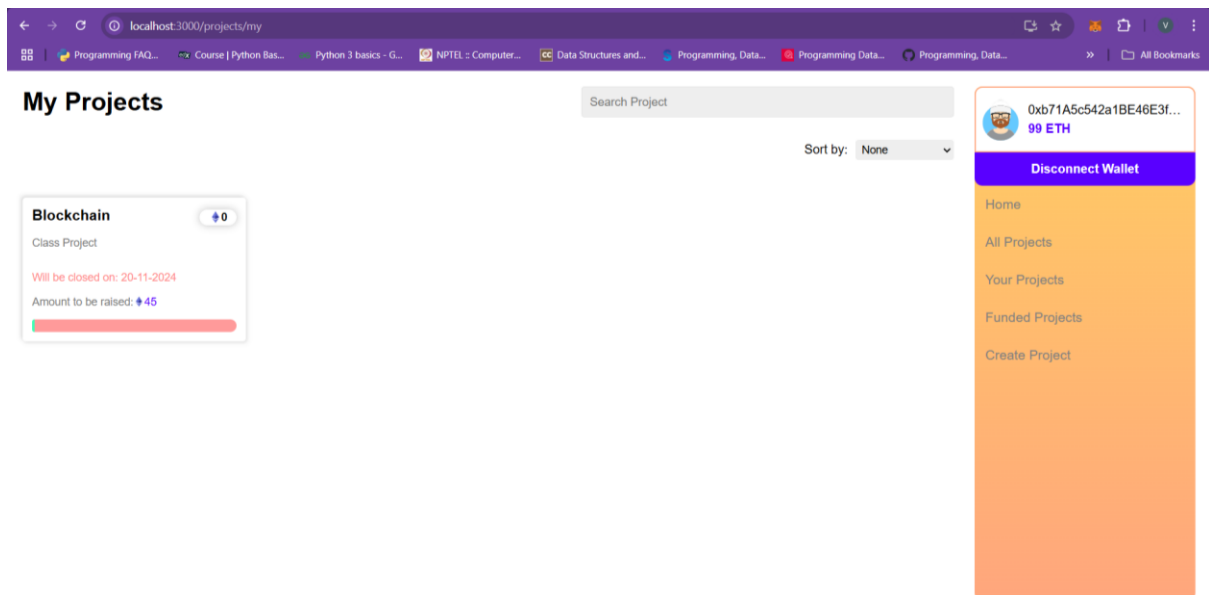
## 4. Creating a Project:

Click on Create Project from on the right side and it is going to show the below window.



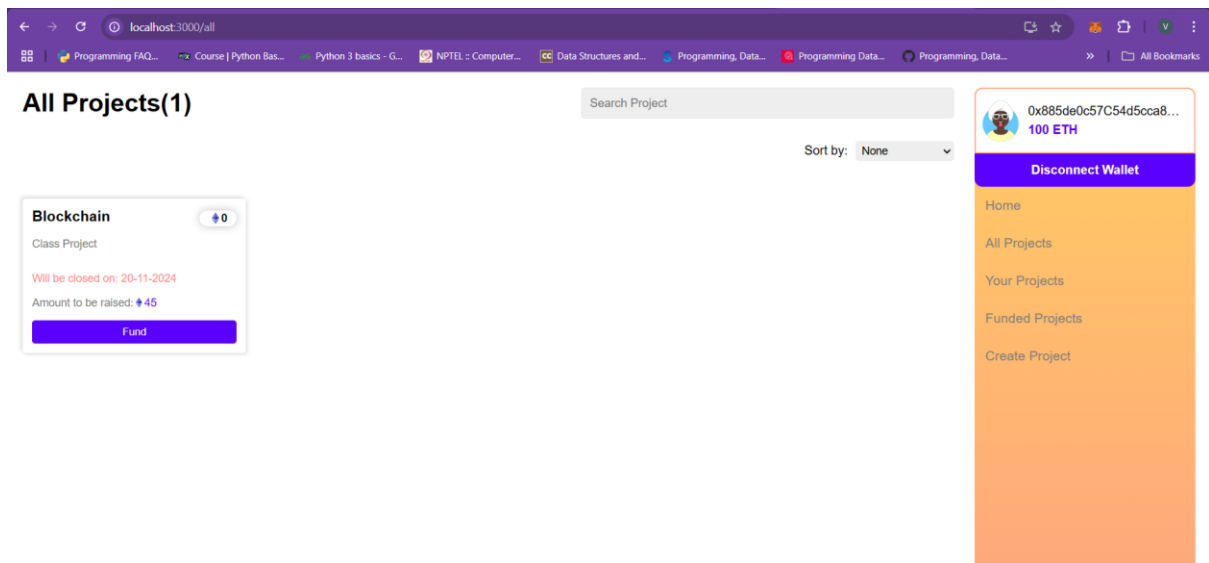
The screenshot shows a web browser window with the address bar at localhost:3000/create. The browser's tab bar shows several tabs, including 'Programming FAQ...', 'Course | Python Bas...', 'Python 3 basics - G...', 'NPTEL - Computer...', 'Data Structures and...', 'Programming, Data...', 'Programming Data...', and 'Programming, Data...'. Below the browser window, there is a 'Back to home' button. The main content area displays a 'Create Project' form. The form has four input fields: 'Blockchain', '2', '45', and 'Class Project'. A 'Create' button is located at the bottom right of the form.

Project got created.



The screenshot shows a web browser window with the address bar at localhost:3000/projects/my. The browser's tab bar shows several tabs, including 'Programming FAQ...', 'Course | Python Bas...', 'Python 3 basics - G...', 'NPTEL - Computer...', 'Data Structures and...', 'Programming, Data...', 'Programming Data...', and 'Programming, Data...'. Below the browser window, there is a 'My Projects' section. The section has a 'Search Project' input field and a 'Sort by: None' dropdown menu. On the left, there is a project card for 'Blockchain' with a 'Class Project' label, a 'Will be closed on: 20-11-2024' warning, and an 'Amount to be raised: 45' progress bar. On the right, there is a sidebar with a wallet address '0xb71A5c542a1BE46E3f...' and '99 ETH', a 'Disconnect Wallet' button, and a list of links: 'Home', 'All Projects', 'Your Projects', 'Funded Projects', and 'Create Project'.

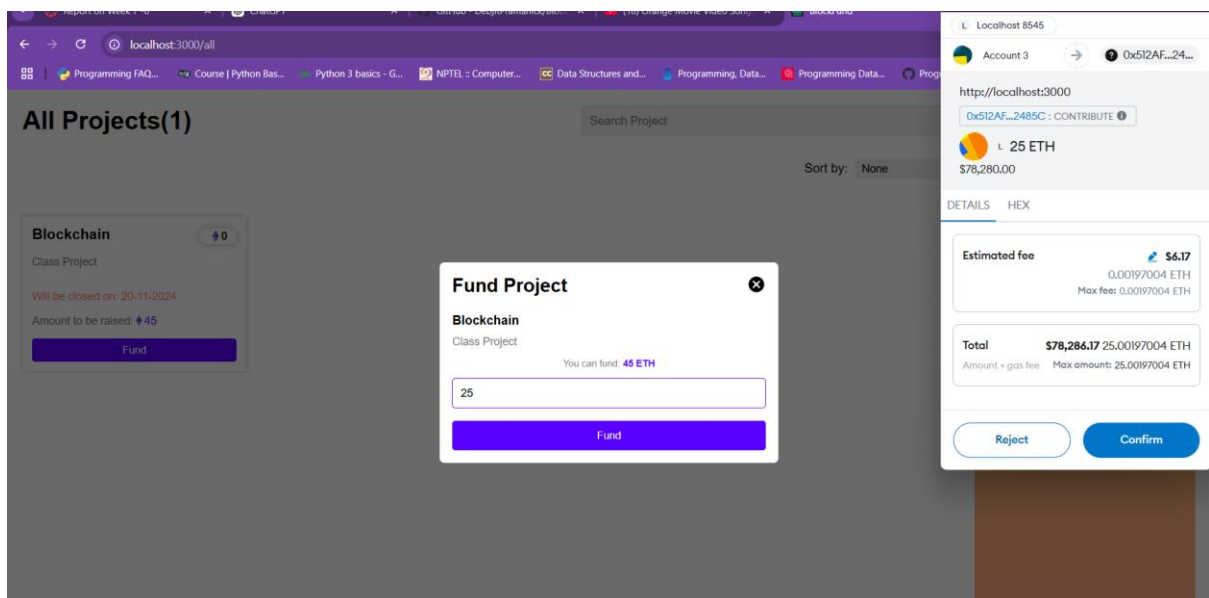
## Interface from user 2



Here from user 2 account, we can fund the project, by clicking on fund option.

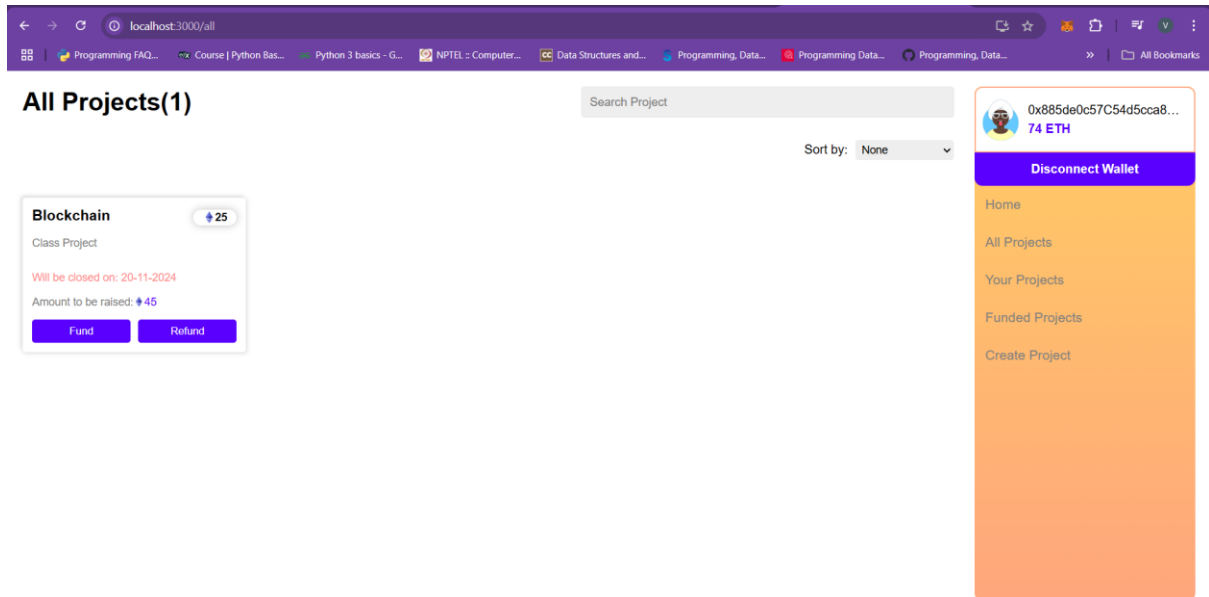
## 5. Funding the Project:

Click on fund and metamask window is going to pop up, hit confirm and there you can see the transfer of ethers

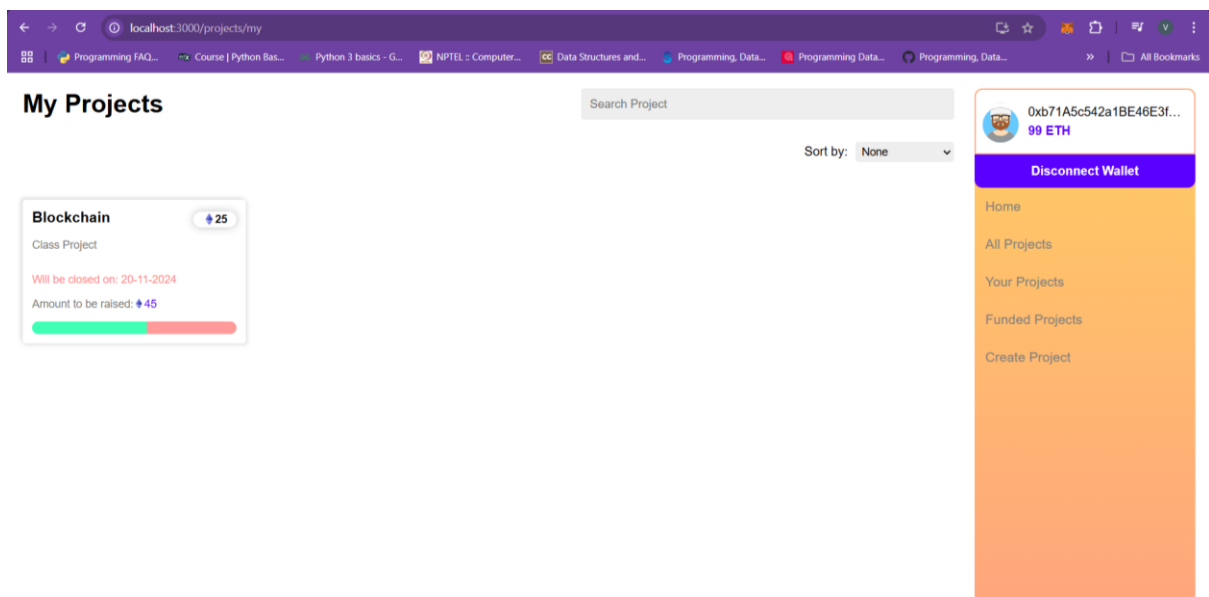


## 6. Transferring the Tokens:

The ethers got transferred and after transferring 25 ethers it changes from 100 to 74



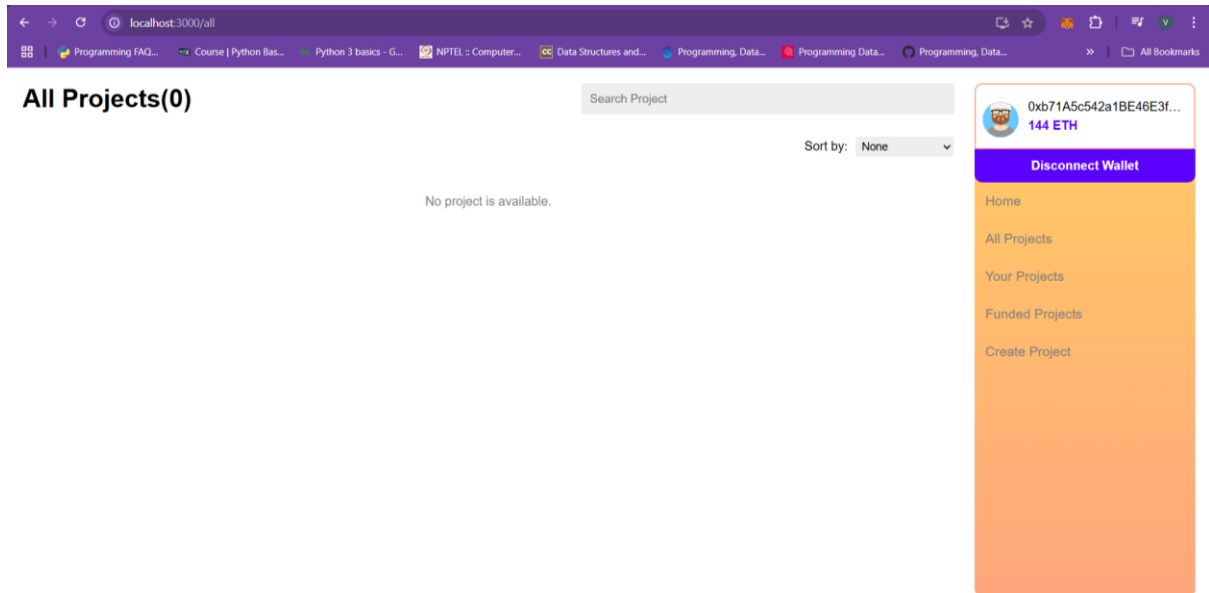
User 2 account after transferring.



## 7. Token Transfer:

After the project goal met, all the tokens will be transferred to the needed user account.

=>100ETH to 144ETH.



## 8. Transaction History:

