Program Setup and Launch guide

Background

This final year project is a group project. The current repository is finalized based on project **22CS016** only and may/does not reflect the final contribution for **22CS015**.

Prerequisites

- Setup OS should be Windows. The following guidelines were only tested on Windows.

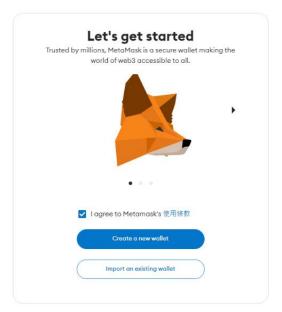
Step 1 - repository settings (do once)

- 1. Install NPM (can be downloaded here).
 - O Upon installation, make sure the command 'npm' is responsive.

- 2. CD to app folder, issue command "npm i".
- Repeat step 2 for smart_contract folder.

Step 2 – wallet settings (do once)

- Install MetaMask for Chrome (can be downloaded here).
- Upon installation, set up Blockchain wallet.
 - A page like this should be automatically opened.

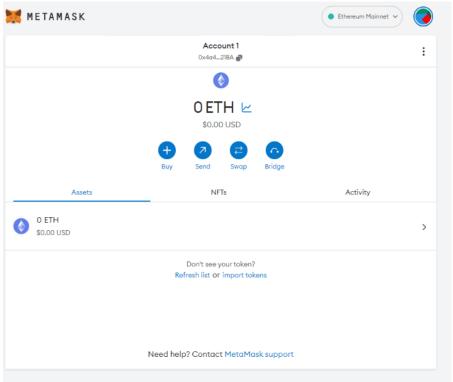


- Agree the terms then click "Import an existing wallet". You could also create your own wallet.
- On the next page, click "I Agree"
- Input the following secret recovery phrase:
 - limit error book doll distance lecture traffic mad brick wire essence mean
 - (Directly copy the whole sentence then paste to the first input box)
- Click the confirm button.
- o The page should be shown as follows:

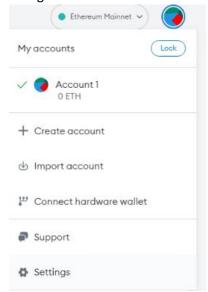


- Set the new password to Cityufyp2022
 - Not recommended to change any new passwords.

- Click the import button.
- o After some confirmation dialogs, initialized page should be displayed as follows:



o Open "settings".



o In the **Advanced** tab, turn on the following feature:

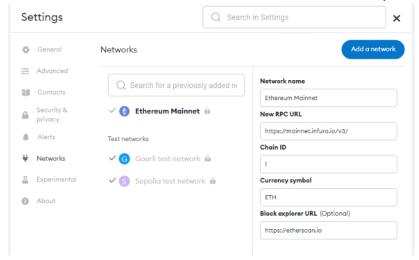
Show test networks

Select this to show test networks in network list

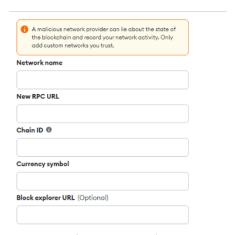


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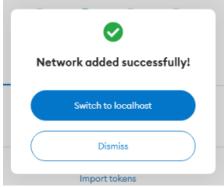
o In the **Networks** tab, click "Add a network" → "Add a network manually".



Networks > Add a network > Add a network manually

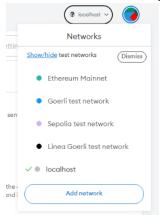


- o Input the network information as follows:
 - Network name: localhost
 - New RPC URL: http://localhost:8545
 - Chain ID: 31337
 - ETH
- o Save the information.
- o If there is a dialog box:

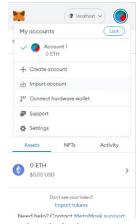


Click "Switch to localhost"

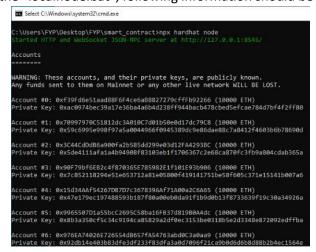
o Else, switch to localhost host using the network tab on the top right corner.



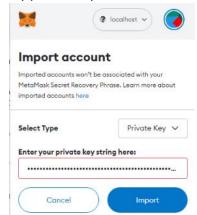
- Import local accounts from localnode.bat.



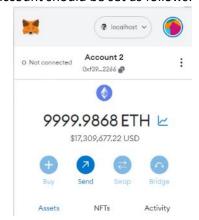
- \circ Right click the account profile \rightarrow "Import account"
- o Open the "localnode.bat", following information should be displayed:



o Import any private key to the MetaMask window:



O New account should be set as follows:



Step 3 (do once)

- Install IPFS desktop (can be downloaded here, named "IPFS-Desktop-Setup{version}.exe").
- After launching the program, go the "Settings" tab then configure the following Json file as follows:



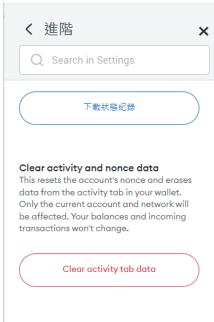
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Step 4 (do every time launch)

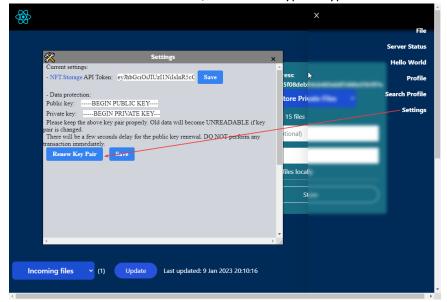
- App folder: click run.bat.
- Smart_contract folder: click localnode.bat first. When the account list is shown, click deploy.bat.
- Start IPFS desktop.

Step 5 (do every time launch)

- Go to localhost:5173
- For each imported MetaMask account: profile icon → Settings → Advanced → Clear activity tab data



- Connect to an MetaMask wallet account, renew the crypto keypair.



- At this time, the system should be working.