



School: Campus:

Academic Year: Subject Name: Subject Code:

Semester: Program: Branch: Specialization:

Date:

Applied and Action Learning

(Learning by Doing and Discovery)

Name of the Experiment : Wallet Walkthrough – Hands-on Wallet Setup

Objective/Aim:

To set up and configure a blockchain wallet (MetaMask), understand how keys and accounts are generated, and test transactions on an Ethereum test network.

Apparatus/Software Used:

- ? Google Chrome / Edge browser
- ? MetaMask Wallet Extension
- ? Ethereum Testnet (Sepolia / Goerli)
- ? Test ETH Faucet
- ? Etherscan Testnet Explorer

Theory/Concept:

A blockchain wallet is a tool that allows users to store, send, and receive cryptocurrencies.

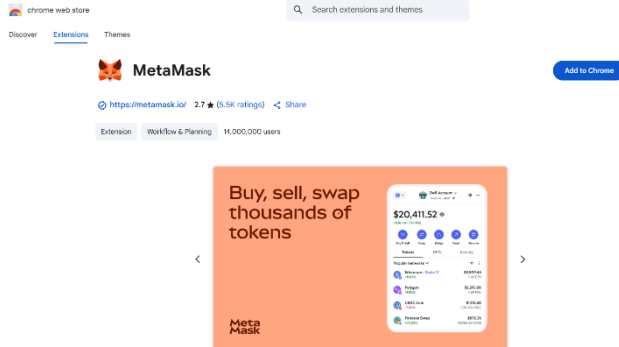
- Each wallet has:
 - **Private Key** → Used to sign transactions (must be kept secret).
 - **Public Key / Address** → Used to receive funds.
- Wallets can connect to **test networks** for development and learning.
- **MetaMask** is a browser extension wallet widely used for Ethereum and EVM-compatible blockchains.

When a transaction is created, it is **digitally signed** by the private key and then broadcast to the blockchain for validation.

Procedure:

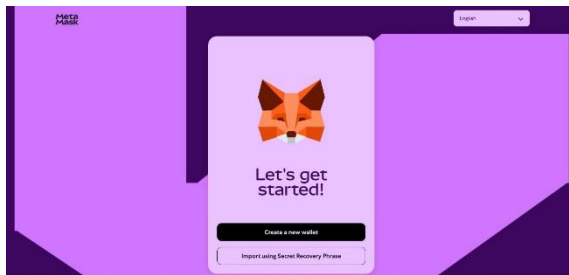
Install MetaMask:

- Go to <https://metamask.io>
- Add the MetaMask extension to your browser.
- Click on the extension and start the setup.



Create a New Wallet:

- Choose "Create a Wallet."
- Set a strong password.
- Save the **12-word Secret Recovery Phrase** securely.



Creating a new password:

<

Step 1 of 3

MetaMask password

Unlocks MetaMask on this device only.

Create new password

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Password strength: Average

Confirm password

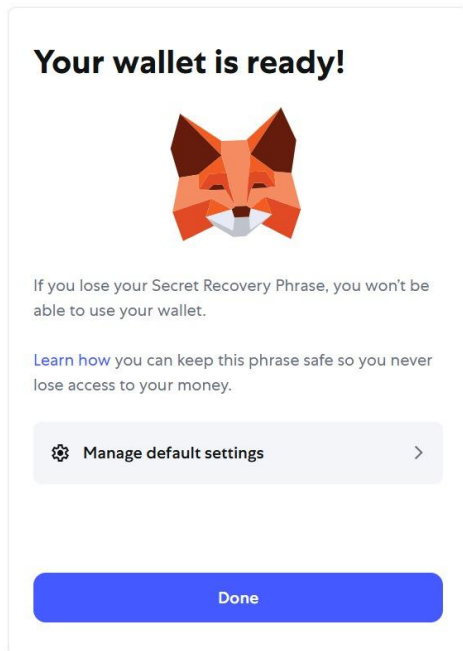
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☒ If I forget this password, MetaMask can't recover it for me. [Learn more.](#)

Create password

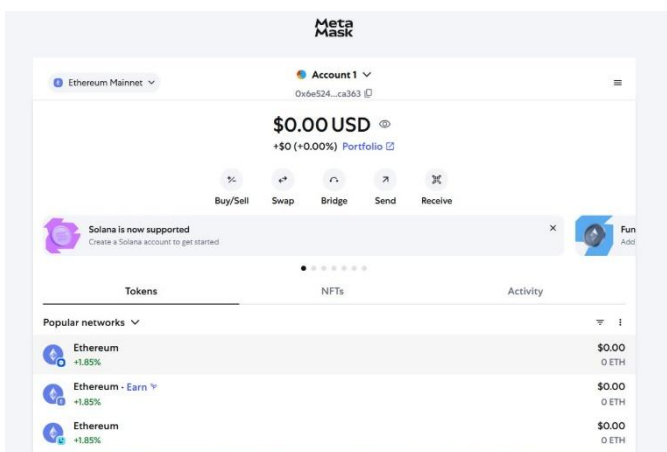
Successfully create wallet:



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Access Your Wallet:

- After setup, you'll see your Ethereum wallet address.
- Switch to a test network (e.g., Goerli) in the MetaMask dropdown.



Observation Table:

Step	Output/Result
Wallet Creation	New wallet address generated
Seed Phrase	Successfully stored & verified
Adding Test Network	Sepolia enabled in MetaMask
Faucet Request	Test ETH received
Transaction Execution	ETH sent successfully, confirmed in explorer

ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/ Practical Simulation/ Programming	10		
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	50		

Signature of the Student:

Name :

Regn. No. :

Signature of the Faculty:

