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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 Experiement : Wallet on Testnet – Set Up and Transact

Objective/Aim:

To understand the concept and importance of cryptocurrency wallets and perform a hands-on setup of a blockchain wallet for managing digital assets securely.

Apparatus/Software Used:

- A web browser (Chrome/Firefox)
- Internet connection
- MetaMask extension or mobile app
- Ethereum test network (Goerli/Sepolia)
- faucet websites for test ETH

Theory/Concept:

A **cryptocurrency wallet** is a digital tool that allows users to store and manage private and public keys and interact with various blockchain networks. It enables the sending and receiving of cryptocurrencies, managing balances, and securing ownership.

There are different types of wallets:

- **Hot Wallets** (connected to the internet):
  Examples – MetaMask, Trust Wallet, Coinbase Wallet
- **Cold Wallets** (offline):
  Examples – Ledger Nano S, Trezor

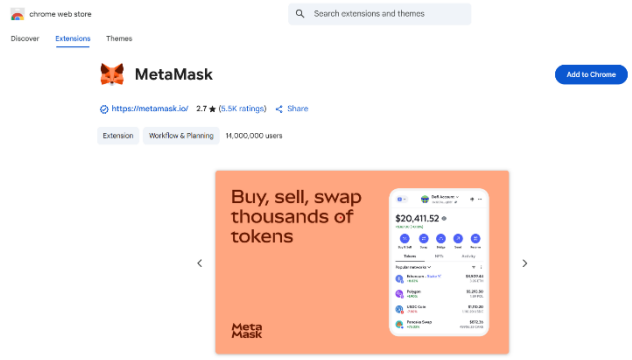
Key Concepts:

- **Public Key:** Like an account number, it's used to receive crypto.
- **Private Key:** Like a password, it's used to sign transactions.
- **Seed Phrase:** A backup of your wallet's private keys in the form of 12 or 24 words.

Procedure:

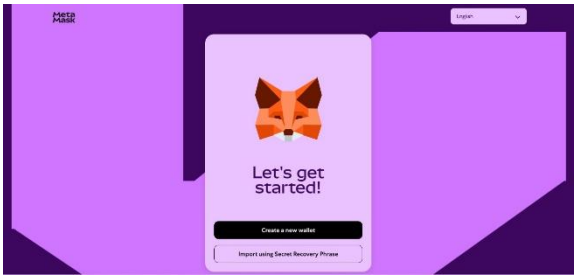
Install MetaMask:

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

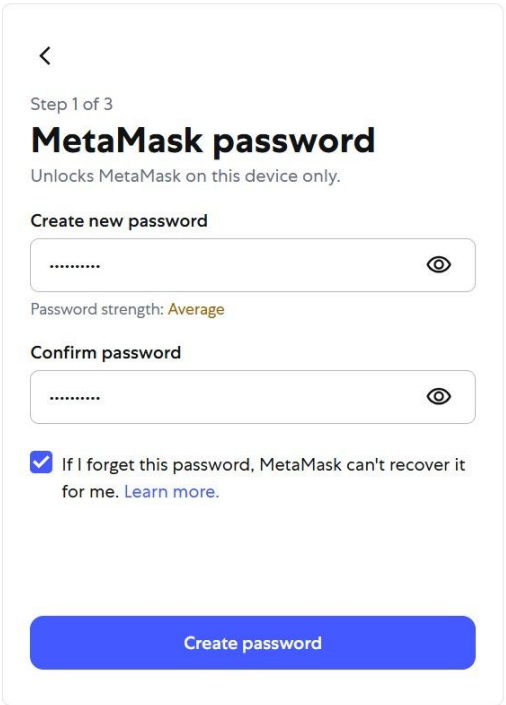


Create a New Wallet:

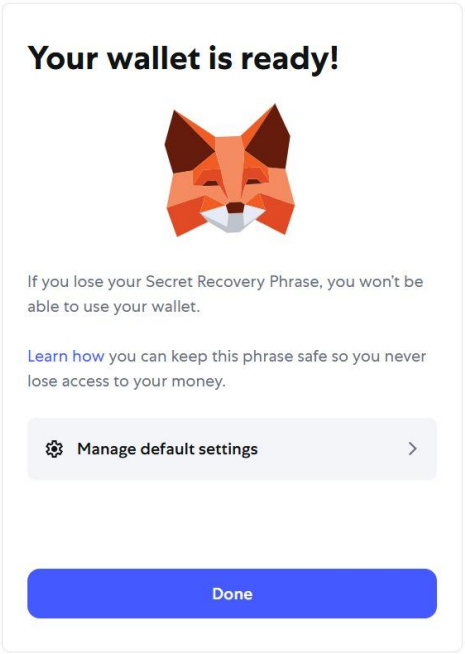
- Choose "Create a Wallet."
- Set a strong password.
- Save the **12-word Secret Recovery Phrase** securely.



Creating a new password:

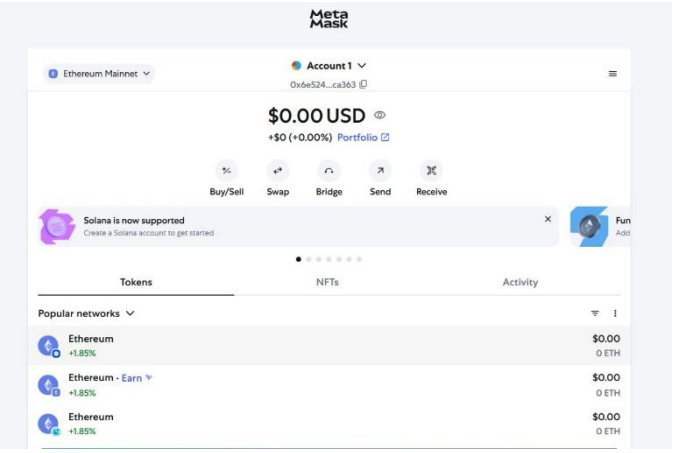


Successfully create wallet:



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	Action Performed	Result/Output
1	MetaMask installation	Successfully added to browser
2	Wallet created	Recovery phrase generated
3	Test network selected	Switched to Goerli
4	ETH requested from faucet	Test ETH received
5	ETH sent to another wallet	Transaction successful
6	Wallet restored	Access regained using seed phrase

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: