	School:	Campus:	
	Academic Year: Subject Name:	Subject Code:	
Centurion UNIVERSITY Shaping Lives Empewering Communities	Semester: Program: Branch:	Specialization:	
	Date:		
	Applied and Action Learning (Learning by Doing and Discovery)		

Name of the Experiement: Try DeFi – Using Uniswap or Aave Testnets

# **Objective/Aim:**

Perform basic DeFi operations on testnets: connect MetaMask, swap tokens on Uniswap testnet, and lend/borrow on Aave testnet. Record transactions and observations.

# **Apparatus/Software Used:**

- 1. MetaMask Wallet
- 2. Brave Web Browser
- 3. Aave Website -https://aave.com
- 4. Ethereum Sepolia Testnet

# Theory/Concept:

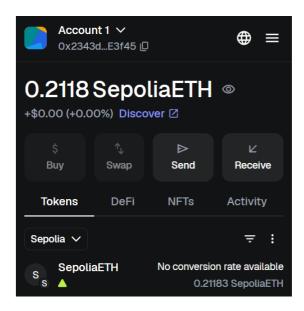
- Uniswap (AMM): Automated market maker allowing token swaps using liquidity pools. Users can swap tokens and optionally provide liquidity to earn fees.
- **Aave (Lending protocol):** Users can deposit assets to earn interest and borrow against collateral. On testnets, flows are the same but use test tokens and test ETH.

#### Safety & Pre-lab Checklist

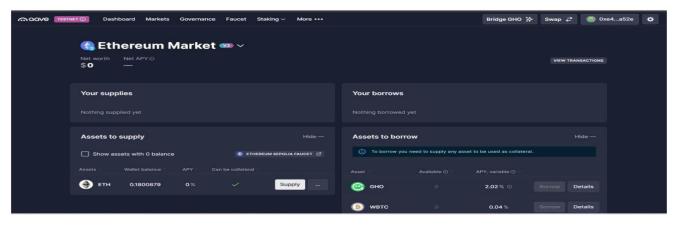
- 1. Use testnets only do **not** use mainnet or real funds.
- 2. Ensure MetaMask network is switched to the testnet you will use. Popular choices: Sepolia (Ethereum) or other chains where the test deployments exist.
- 3. Obtain testnet ETH from a faucet to pay gas.

## **Procedure:**

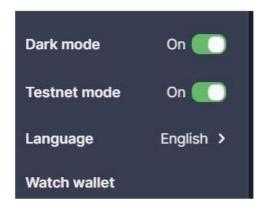
- 1. Open MetaMask and switch to the **Sepolia testnet**.
- 2. Visit **aave.com** in your browser.
- 3. Click "Enter App" to launch the Aave application.
- 4. Select "Connect Wallet" and connect via MetaMask.
- 5. From the top-right corner, enable **Testnet Mode**.
- 6. Choose the **Ethereum** (**Sepolia**) network.
- 7. Navigate to the **Swap** section.
- 8. In the swap fields, select **ETH** as the token you're swapping from and **DAI** as the token you're swapping to.
- 9. Enter a test amount of **ETH** to swap.
- 10. Click "View Details" to review the transaction information



Step:1



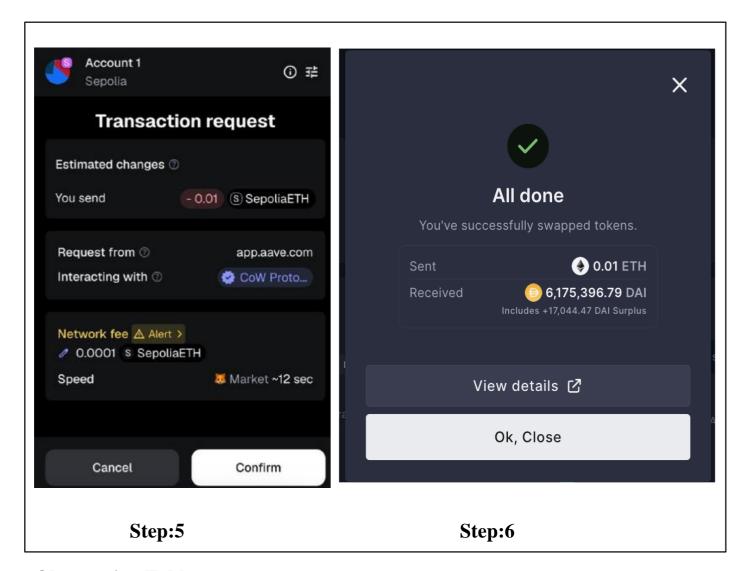
Step:2



Step:3



Step:4



### **Observation Table:**

- 1. MetaMask successfully connects to the Sepolia testnet and interacts with Aave without any issues.
- 2. Test ETH can be easily swapped to DAI using Aave's testnet interface.
- 3. Transaction details like gas fees, slippage, and exchange rate are clearly visible before confirming the swap.

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