Assignment no: 2

Title: Create your own wallet using Meta mask for crypto transactions.

Theory:

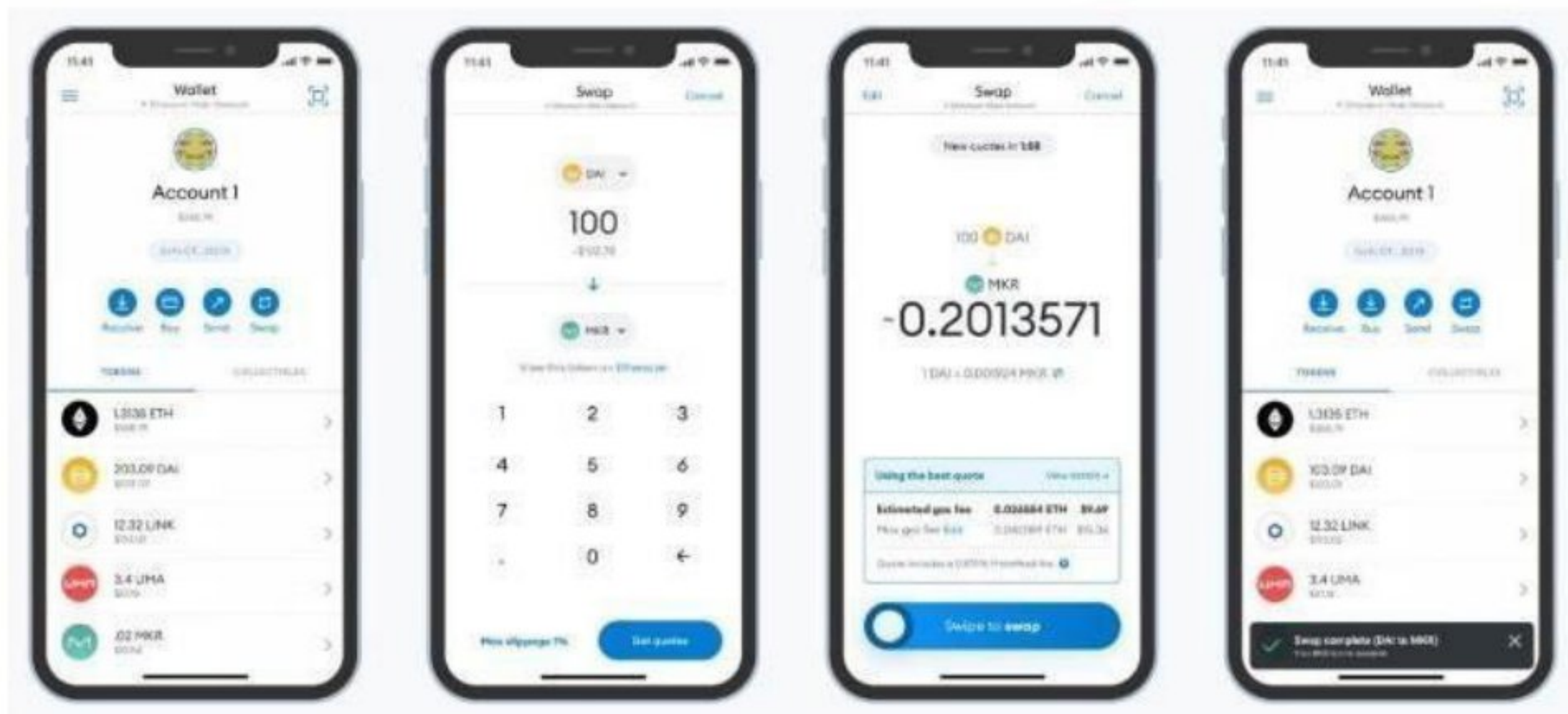### How does the Meta Mask wallet function?

MetaMask crypto currency wallet employs the web3.js library to function. This library is a part of the official Ethereum product. The library was developed focusing on the requirements of web applications that could interact with the Ethereum block chain and take advantage of all block chain's benefits and functions.

MetaMask is a crypto currency wallet for Ethereum and an instrument that helps to interact with DApps. MetaMask connects the extension to the DApp so that to fulfil both tasks. When the application identifies the MetaMask, it creates a connection, and the user can start using all the features of a specific application.

MetaMask wallet key features:

Easy to use. The first and most apparent benefit of the MetaMask wallet is the ease of use. The wallet offers an intuitive and straightforward user interface that makes the management of crypto currencies and interaction with DApps easier than ever before.

Furthermore, it allows the creation of several wallets. When users create a new wallet, they generate new public and private keys that MetaMask users have fast access.

Integration with various DApps. Meta Mask's users can connect with numerous decentralized applications with a single tap on the screen. It allows them to exchange their tokens swiftly on Uniswap or Pancake Swap exchangers, launch block chain games like Gods Unchained,.

Integration with other block chains. The additional benefit of MetaMask is that you can join it to other block chains

Hardware wallets support. MetaMask service is compatible with hardware crypto currency wallets like Ledger, Nano, or Trezor.

Swaps support. In 2021 MetaMask offered its users a relatively cheap and fast opportunity to exchange their tokens within the wallet with Swaps. This function supports several automatic marker makers (MM) that help find the best token exchange rate.

NFT support. MetaMask wallet also allows storing NFTs. When a user buys an NFT on a platform, the token is automatically displayed in the tab of collectible items in the wallet.

Main functions of a crypto currency wallet

- Registration.

- Applicable exchange rate

- Operations with the crypto currency assets

- Favourite addresses

- Employing other block chains
- NFT support

Main functions of a cryptocurrency wallet

Extended functions set for MetaMask clone

The process of wallet development

Step 1: Opening

Step 2: Developing the architecture

Step 3: UX/UI design development

Step 5: product testing

Step 6: deployment, release

Step 7: product support,

The cost of developing a MetaMask clone

Conclusion : We Created our own wallet using Meta mask for crypto transactions.