

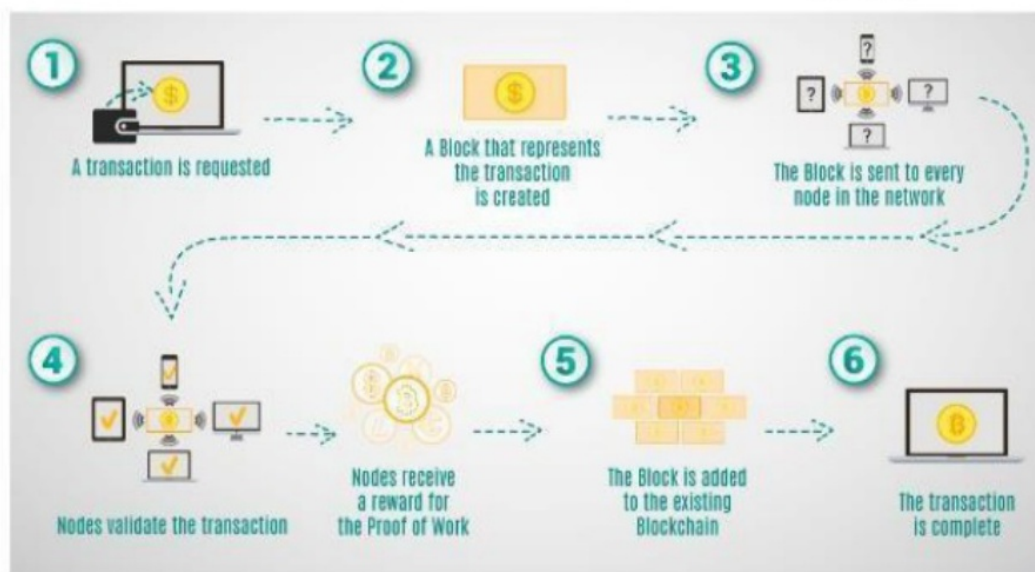
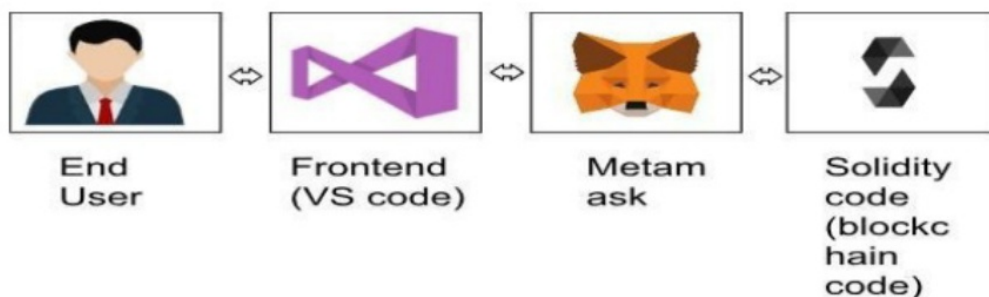
Project Design Phase-I Solution Architecture

Date	16 October 2023
Team ID	NM2023TMID09510
Project Name	Food Tracking System
Maximum Marks	4 Marks

Solution Architecture :

The Food Tracking System leverages blockchain technology, specifically Ethereum smart contracts, to ensure transparency and traceability in the food supply chain. It assigns unique digital identities to food items, recording their journey on an immutable ledger. This approach enhances food safety, authenticity, and sustainability by providing real-time access to crucial information, including origin and transportation details. Consumers, regulators, and producers benefit from this secure, decentralised system, addressing the evolving demands of the food industry for transparency and trust.

Solution Architecture Diagram:



Prerequisite

1. Download vs code : code.visualstudio.com/download
2. Download metamask : <https://metamask.io/>

Steps to complete the project :

Step 1 :

- 1. Open Remix IDE
- 2. Click on File Explorers and Create a new WORKSPACE (by Clicking on the + icon).

Step 2 :

- 1. Click on File Explorers and select Solidity in the environment and create a new file filename.sol by clicking on New File section.
- 2. Add the solidity code in the Filename.sol file.

Step 3 :

- 1. Create a file in contract folder and paste the smart contract code in the file

Step 4 :

- 1. Open MetaMask by clicking on link : <https://metamask.io/>
- 2. Click on "Get start" and "I Agree" and download.

Step 5 :

- 1. Either click 'Get' or tap on the name of the app to see more details. Complete the usual App Store download confirmation process.
- Install MetaMask for your browser.
- Click "Add to Add MetaMask Extension and confirm the pop up. Tap Add Extension and Click on get started.
- Choose Create a Wallet by Clicking on "I Agree".
- Click on Create to set up password .
- Click on Next.
- IMPORTANT! Tap Click Here to Reveal Secret Words .Memorize this phrase. Write and store it Safely.
- Confirm your secret Recovery Phrase by Selecting each phrase in order. Click on confirm to complete the setup.
- Successfully completed.

Step 6 :

- Now go the file Connector.js using following path "filename/src/utis/connector.js"
- Paste the new contract address and save it
- In terminal:
- Cd folder name
- Npm install

- Npm run start

Step 7 :

- It will install all the packages and after completing it will open {LOCALHOST IP ADDRESS} copy the address and open it to chrome so you can see the frontend of you Project.