Project Design Phase-I

Solution Architecture

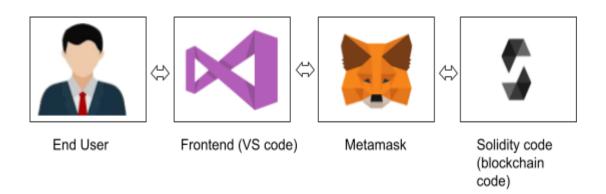
Date	27 October 2023		
Team ID	NM2023TMID05389		
Project Name	Project – DRUG TRACEABILITY		
Maximum Marks	4 Marks		

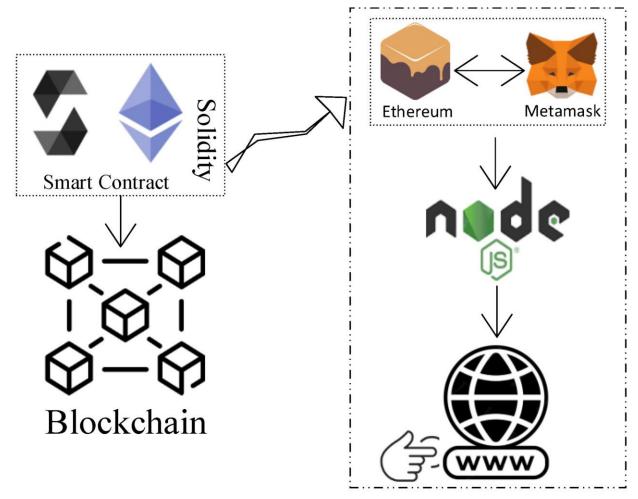
Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Example - Solution Architecture Diagram:





Prerequisite

1 download node.js : Node.js

2 download vs code: Li4nk

3 download metamask : https://metamask.io/

Steps to complete the project

Step 1:-

1. Open the Zip file and download the zip file.

Extract all zip files

Step 2:

- 1. Open vs code in the left top select open folder. Select extracted file and open .
- 2. Select the projectname.sol file and copy the code.
- 3. Open the remix ide platform and create a new file by giving the name of projectname.sol and paste the code which you copied from vs code.
- 4. Click on solidity compiler and click compile the projectname.sol
- 5. Deploy the smart contract by clicking on the deploy and run transaction.
- 6. select injected provider MetaMask. In environment
- 7. Click on deploy. Automatically MetaMask will open and give confirmation. You will get a pop up click on ok.
- 8. In the Deployed contract you can see one address copy the address.
- 9. Open vs code and search for the connector.js. In contract.js you can paste the address at the bottom of the code. In export const address.
- 10. Save the code.

Step 3:

open file explorer

- 1. Open the extracted file and click on the folder.
- 2. Open src, and search for utiles.
- 3 . You can see the frontend files. Select all the things at the top in the search bar by clicking alt+ A. Search for cmd
- 4. Open cmd enter commands

npm install

npm bootstrap

npm start

5. 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 your project.

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刘 File Edit Selection View Go Run …

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Restricted Mode is intended for safe code browsing. Trust this window to enable all features. <a href="Manage">Manage</a> <a href="Learn More">Learn More</a>
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    drugTracking.sol ×

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                         C: > Users > LENOVO > AppData > Local > Temp > b3a26ec9-8739-47d3-a0a7-d445dc269be2_9_Problem_Statement_9_Drug_Tracking zip.be2 > Drug-Tracking > $ drugTracking.sol
                                                // SPDX-License-Identifier: MIT pragma solidity ^0.8.0;
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                                                   contract Drug{
    address public owner;
                                                                  constructor() {
                                                                                  owner = msg.sender;
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                                                                            difier onlyOwner() {
    require(msg.sender == owner, "Only the owner can perform this action");
                                                                struct Drug {
    string drugName;
    string manufacturer;
    uint256 manufacturingDate;
                                                                                  address trackingHistory;
                                                                mapping(uint256 => Drug) public drugs;
uint256 public drugCount;
                                                                 event DrugManufactured(uint256 indexed drugId, string drugName, string manufacturer, uint256 manufacturingDate); event DrugTransferred(uint256 indexed drugId, address indexed from, address indexed to, uint256 transferDate);
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                                                                    function manufactureDrug(uint256 drugId, string memory _drugName, string memory _manufacturer, uint256 _manufacturingDate) external onl
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