DOP: / /2023 DOS: / / 2023

Experiment No: 06

Aim: To develop and test a DApp using Ethereum/Hyperledger.

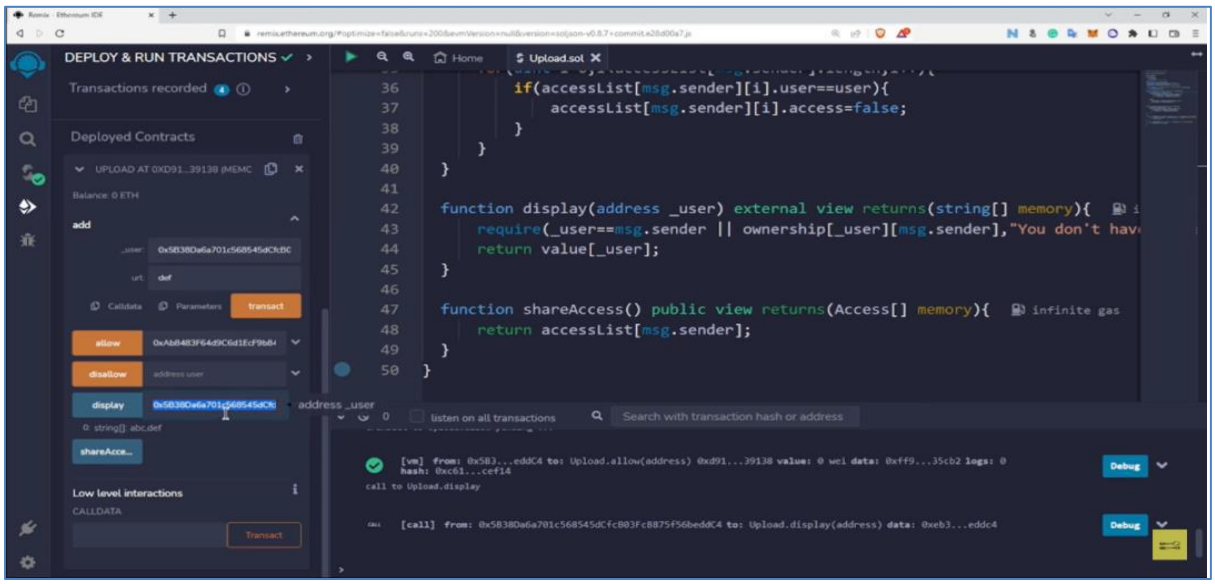
Project:-Decentralized Image Drive

Theory:

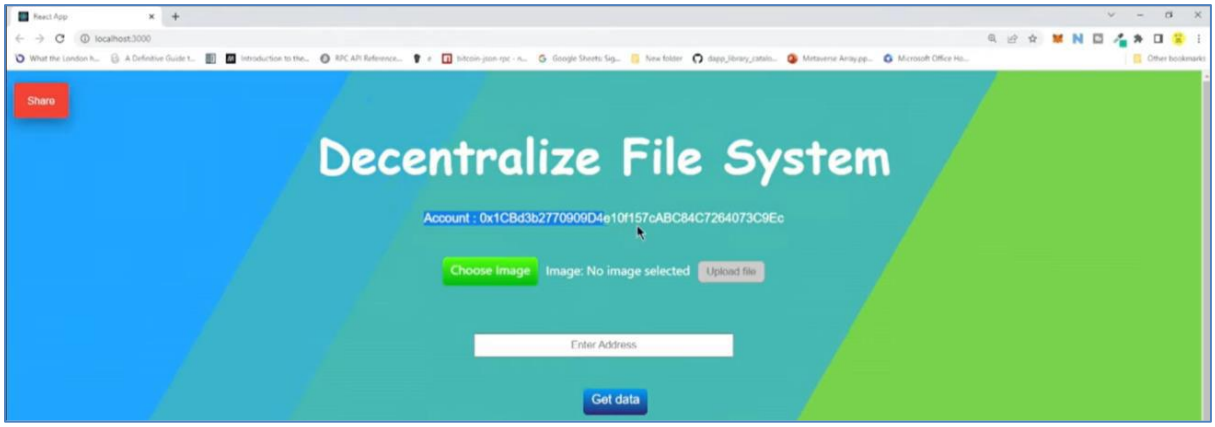
Here Are steps to develop the Dapp,

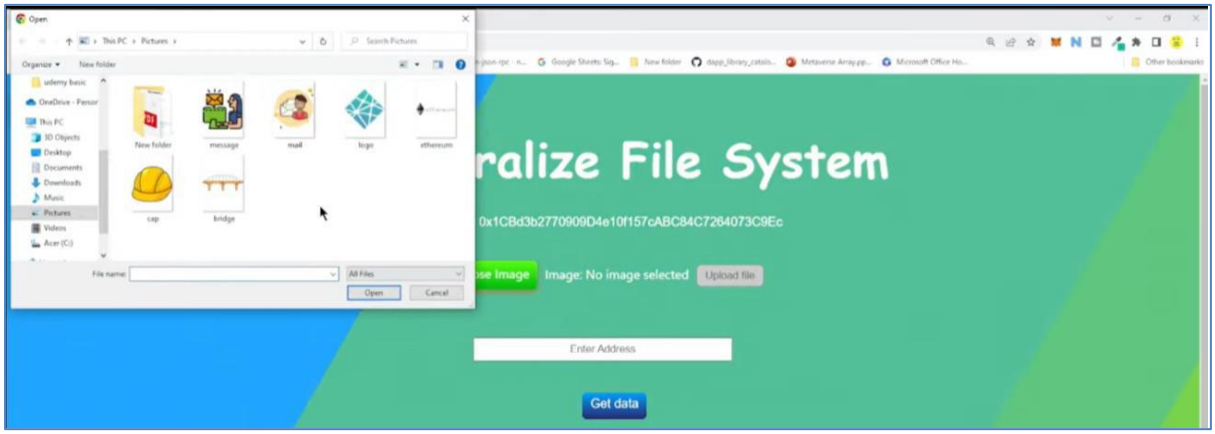
Set up a development environment: You'll need to set up a development environment with the necessary tools, including an Ethereum client, a Solidity compiler, and a web3 library.

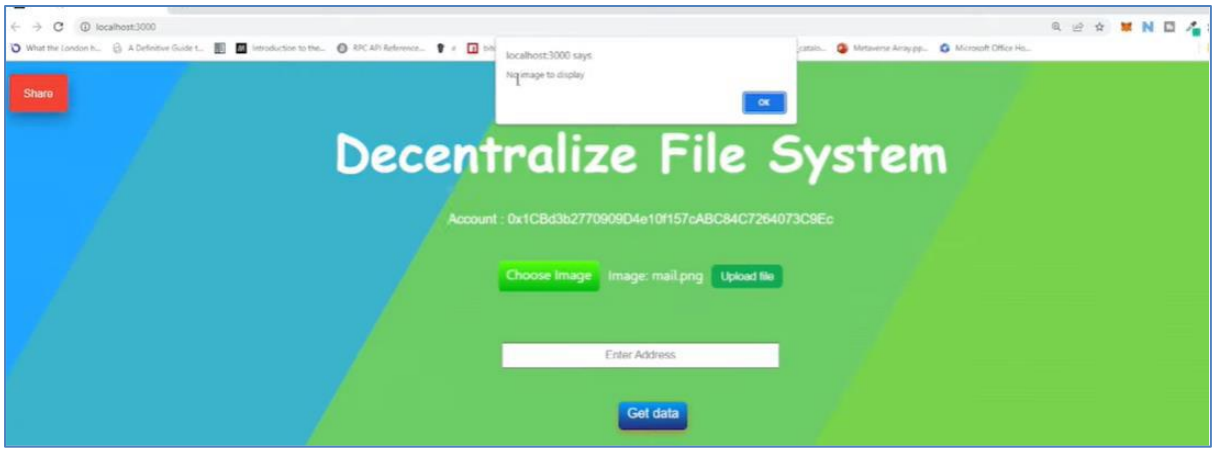
Write the smart contract: Write a smart contract that defines the functionality of your DApp. In this case, the smart contract will need to interact with Ethereum to store and retrieve image files. You can use IPFS (InterPlanetary File System) to store the images and the IPFS hash can be stored on the Ethereum blockchain.



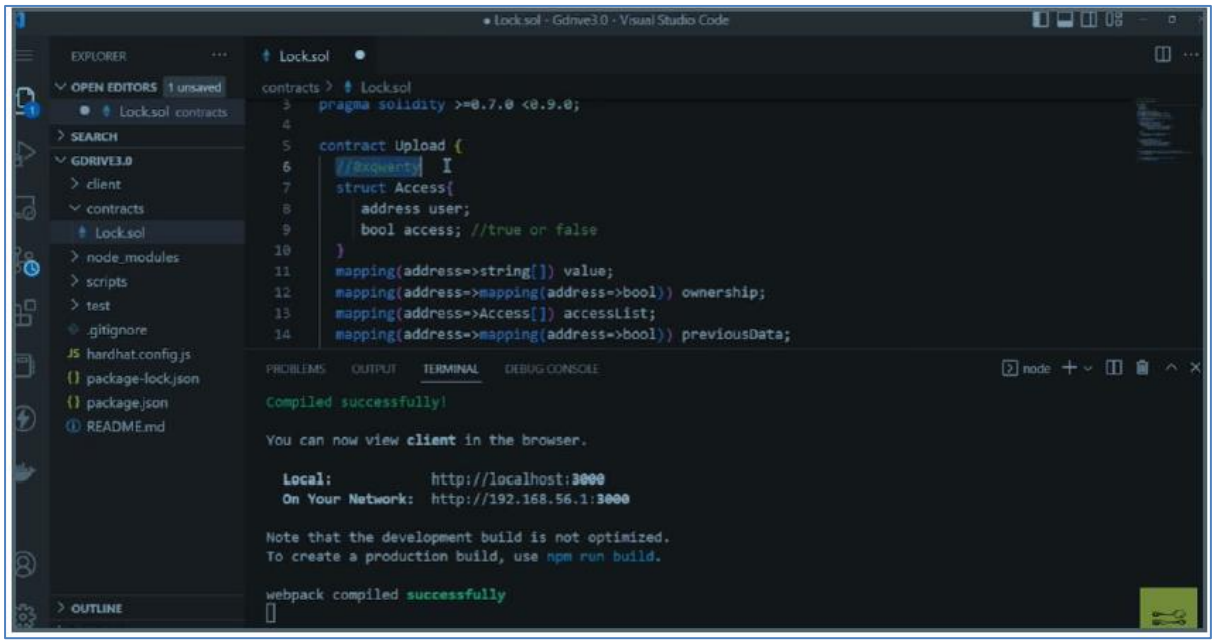
Develop the front-end: Develop a front-end interface that allows users to interact with your DApp. This can be a web-based interface or a mobile app, depending on your requirements.

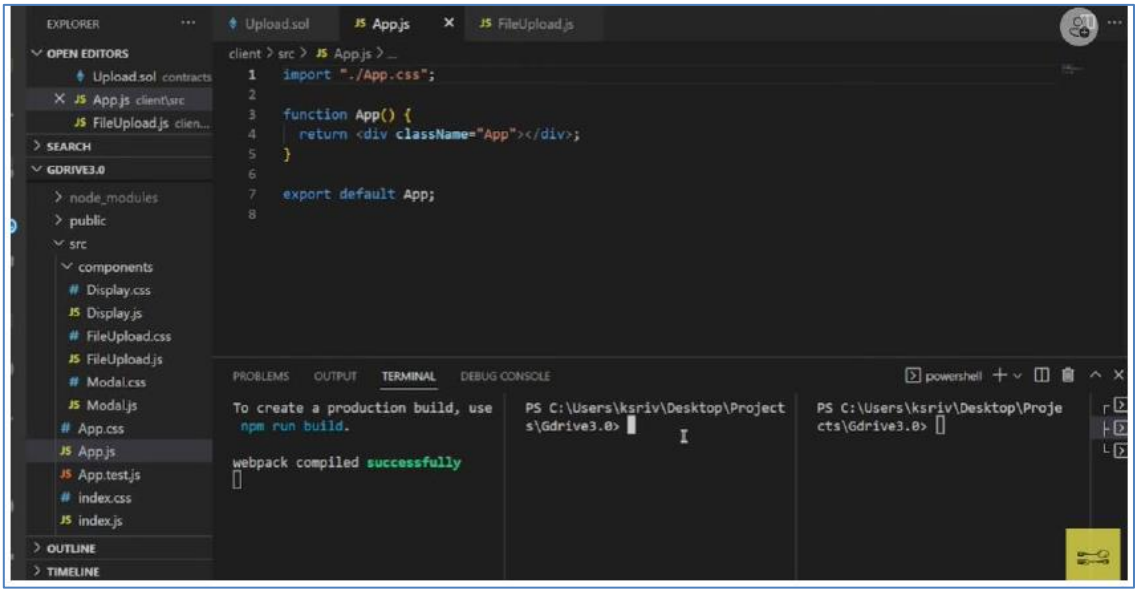




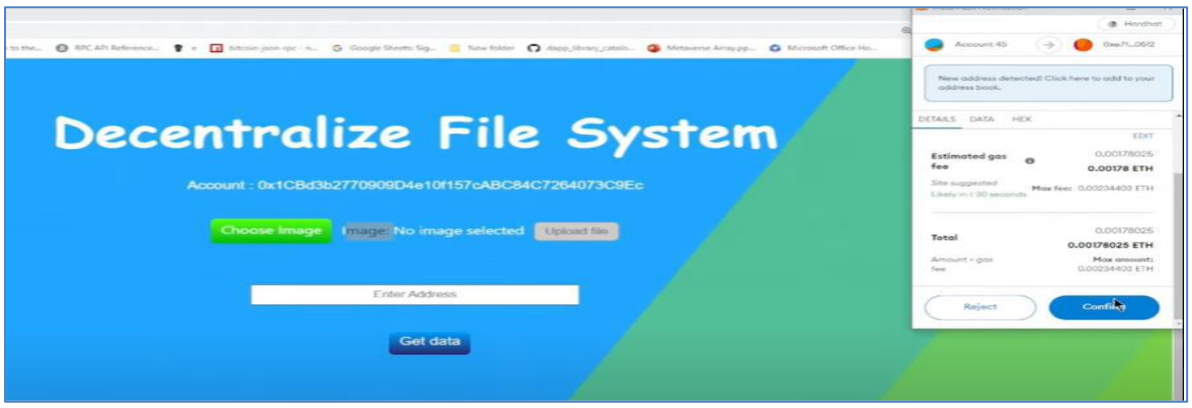


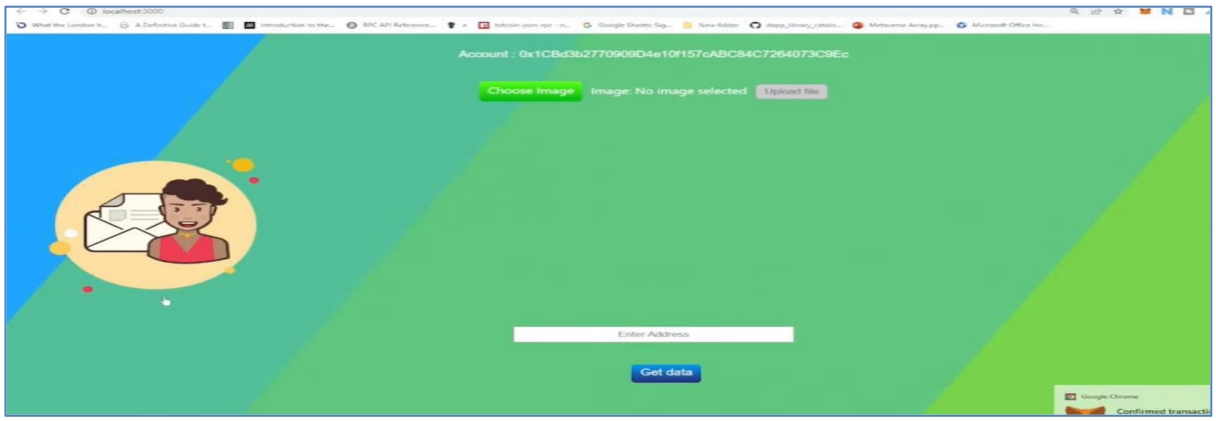
Connect the front-end to the smart contract: Use a web3 library to connect the front-end to the Ethereum network and allow users to interact with the smart contract.





Test the DApp: Once you have built the DApp, you'll need to test it to ensure that it functions as expected. You can use automated testing tools to test the functionality, performance, and security of your DApp.





Conclusion: Here we have successfully developed and test a DApp using Ethereum With perfect transaction and connected also perfec connected with smart contract with front end.