MyRation Group 56

Problem Statement

- In India, the Government provides Ration(food) to people through the Public Distribution System (PDS).
- The current system is hierarchical and centralized.
- This leads to inefficiencies and loss of transparency in distribution as well as a lot of corruption.

Our Solution

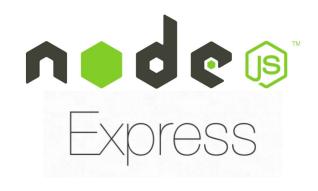
- We propose to replace the current PDS by a decentralized platform using blockchain technology.
- This would provide a system with more transparency and efficiency.
- We will also provide a WebApp for a hassle free user experience and comprehension

Why Blockchain

- The transaction data would be transparent to everyone involved in the blockchain.
- Safety of data and easy transactional interface
- Malpractices of shopkeepers in distribution such as showing fake entries,
 providing ration to ineligible people or in greater amounts etc. will be stopped.

Technologies Used



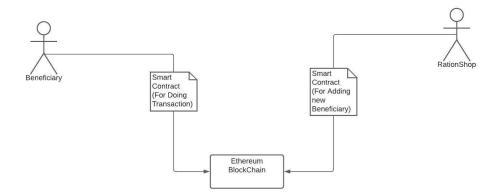






Stage 1 of Project

- Started by doing literature review on the topic.
- Decided the work flow and architecture of the project
- Explored the tools and technologies used in project



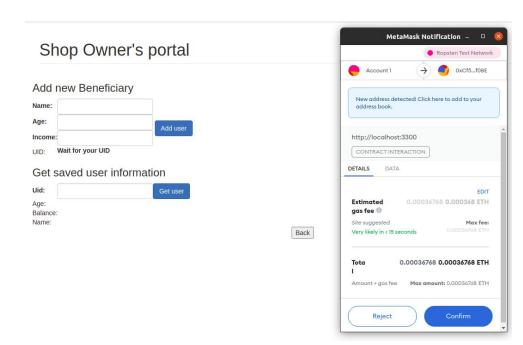
Stage 2 of Project

- We started by deciding the structure of smart contracts and coding them
- Started with the WebApp and decided the tools to be used with it

```
contract ShopOwner {
struct User {
    uint256 Age;
    wint256 balance;
    string Name;
    uint256 lastTime:
mapping(uint256 => User) public AllUsers;
function changeUser(uint256 uid, uint256 age, uint256 bal, string memory name, uint256 lt) public {
uint256 public uid = 0:
event printMessage(uint256 msg);
function addNewUser(
    string memory Name,
) public {
    uint256 bal = 0;
    if( income = 300000) bal = 1000;
    else if ( income 300000 && income < 600000) bal = 500;
    else if( income < 800000) bal = 250;
    AllUsers[uid] = User( Age, bal, Name,0);
function getUserInfo(uint256 uid)
```



- Developed the WebApp
- Used Injected Web3 from Remix interface to access
 Metamask
- Set up integration of the 2 smart contracts with each other and with Ethereum blockchain



Thank You