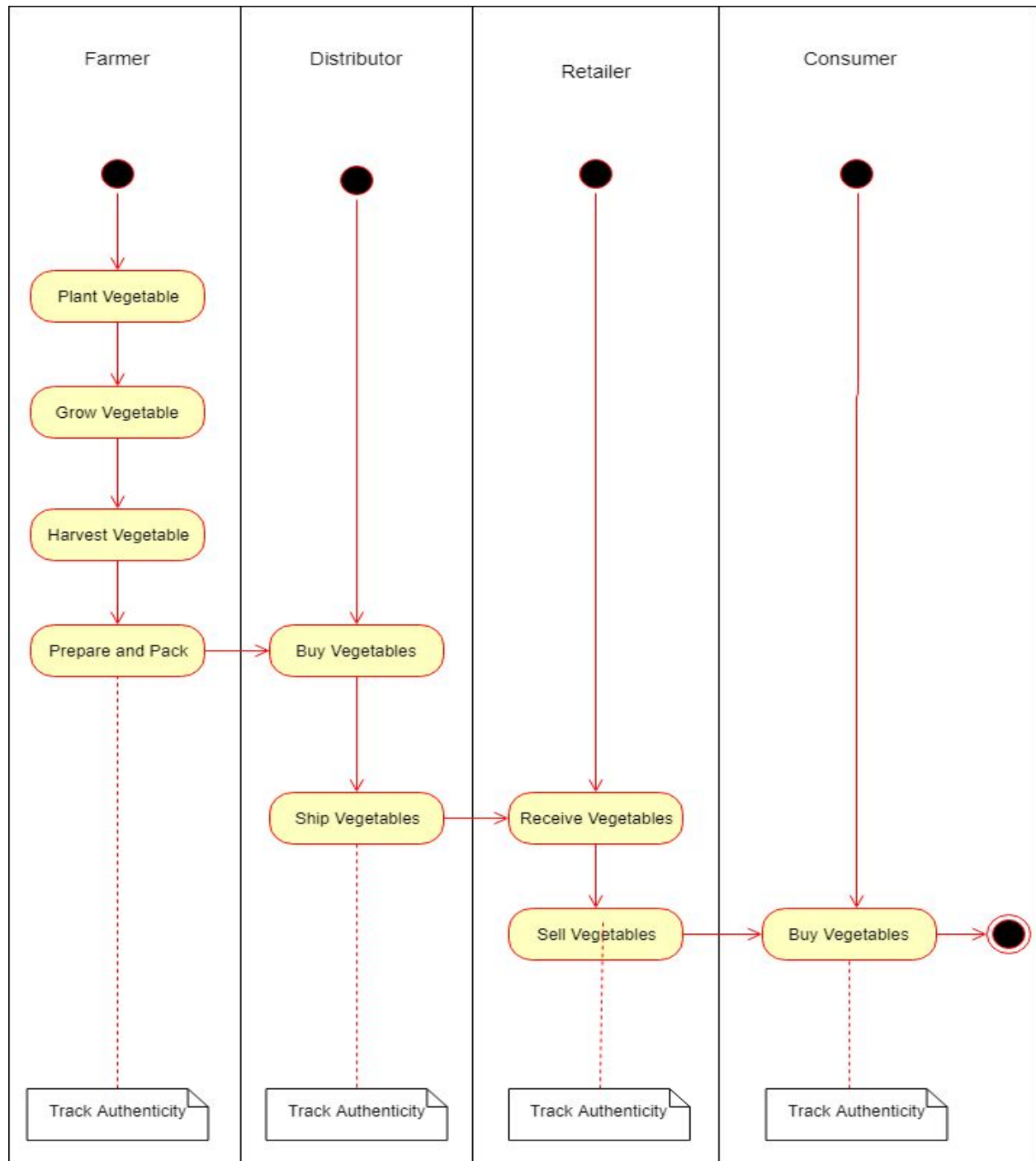


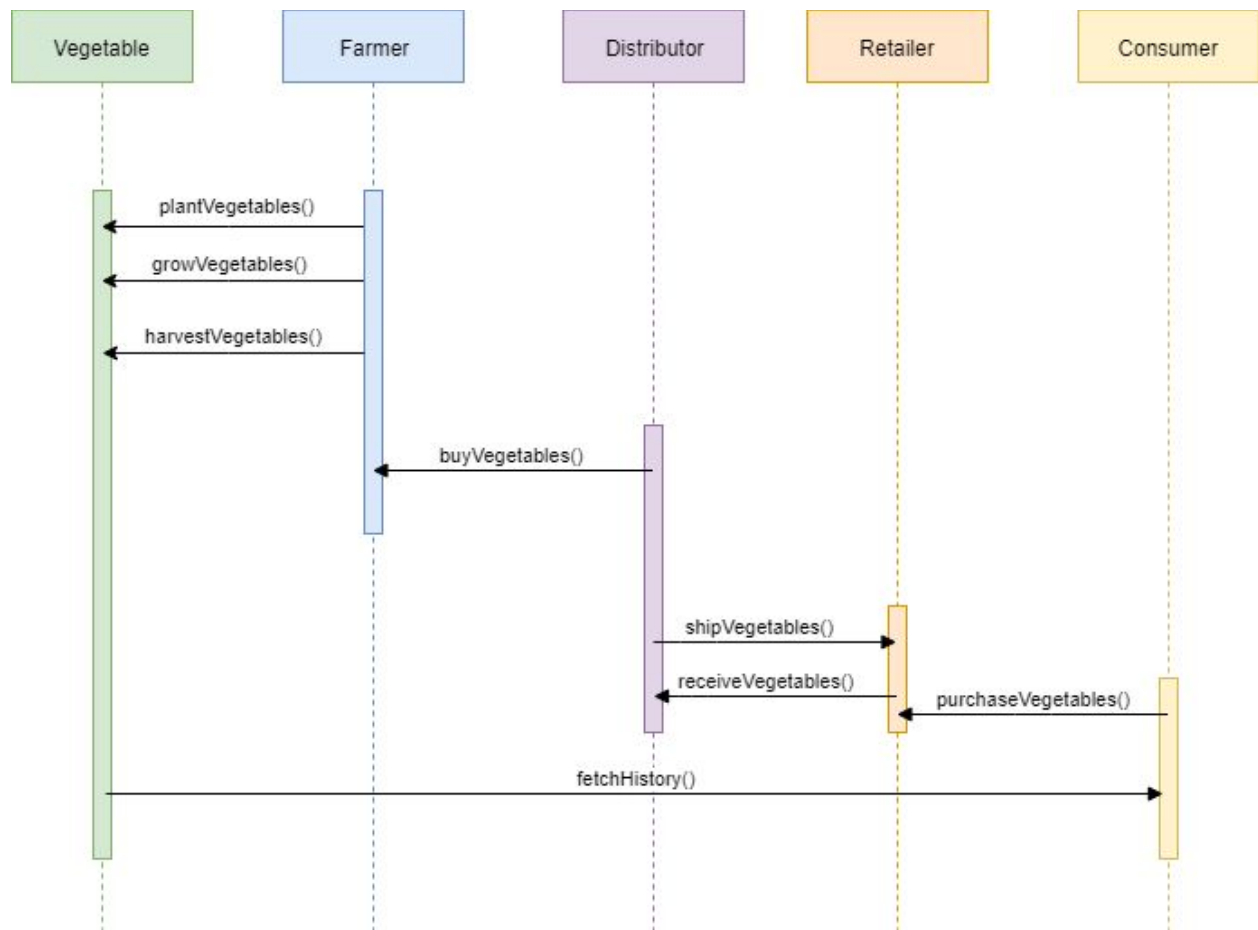
Farm to Table Supply Chain using Ethereum Blockchain

UML Diagrams

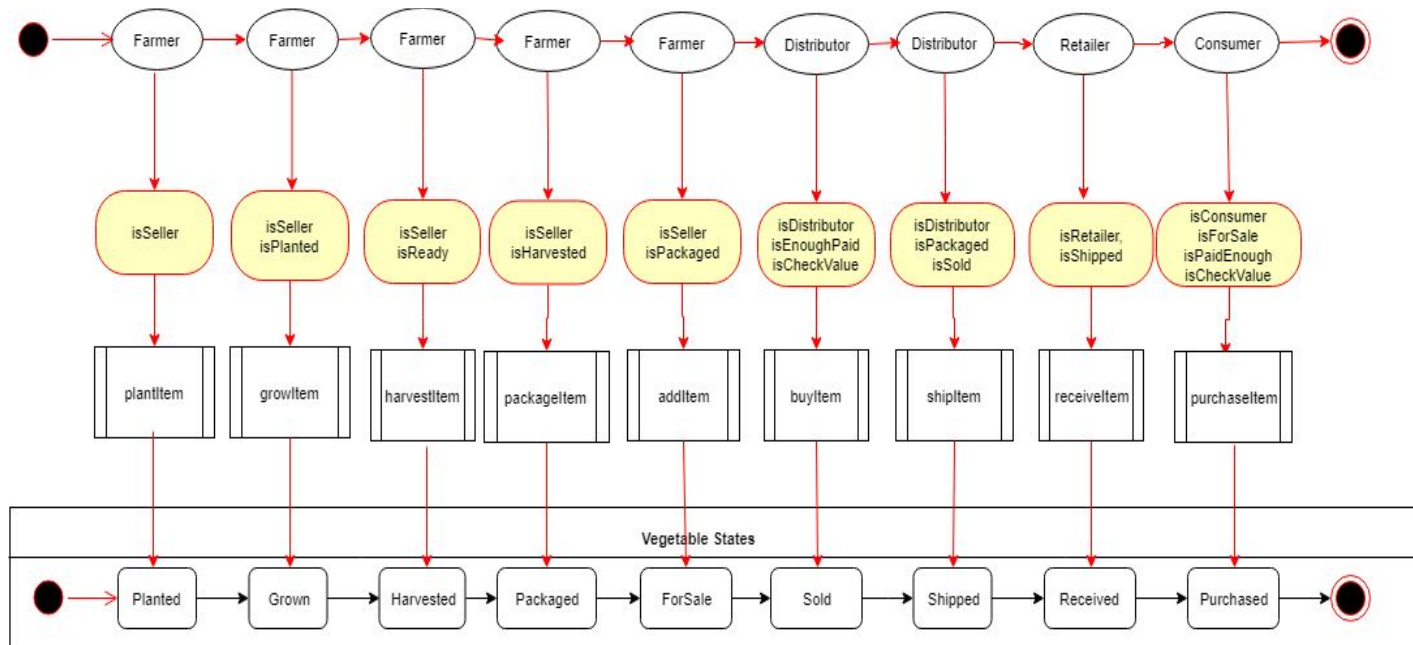
Activity Diagram



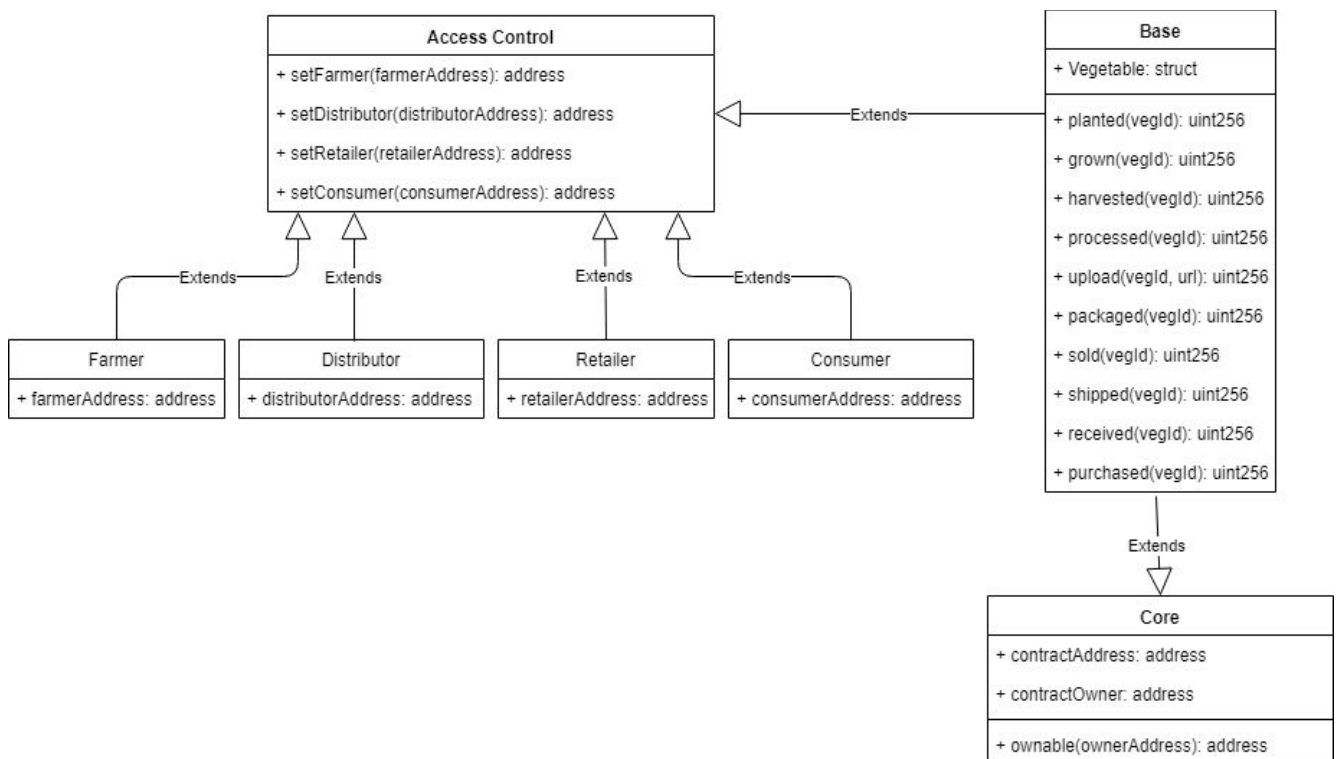
Sequence Diagram



State Diagram



Class Diagram



Libraries Used

Truffle-hdwallet-provider : To set the provider to connect to the Rinkeby Network

<https://unpkg.com/ipfs/dist/index.min.js> : To reference to the IPFS Api.

Rinkeby Deployment Information

Supplychain Tx Hash:

0xc5840331f0e9db1476b3ad47d6b0a1512f9c8b5188452ec5407606ab624dcb05

Supplychain Contract Hash:

0xdd3eb13f2d2880fcec8675171f6153095e22ecb4

Supplychain Contract Address:

0xD3eb13F2D2880fCEc8675171F6153095e22eCb4

IPFS for storing image files

Since storing large files on the Ethereum network can be very expensive, they can be stored in the IPFS and the hash created can be store on the blockchain.

1. Included "<script src='\"https://unpkg.com/ipfs/dist/index.min.js\"'></script>" to reference the IPFS Api
2. A new IPFS connection is created using { host: 'ipfs.infura.io', port: 5001, protocol: 'https' } as the parameters
3. The image file is added to IPFS
4. The file reference hash returned by IPFS is saved in the contract