**Address**: 0x7A1b5AfB1FAAd92A2a5edE74CcBdd3dE759b7990, https://goerli.etherscan.io/address/0x7a1b5afb1faad92a2a5ede74ccbdd3de759b7990

**TransactionHash**: 0x95bbb4e8b4a7649a7b5ef7e4ee8c6c14e5ace18ea9c73105e173cebb987657ce

**FarmerRole**

Tx Hash: 0x0f5aa49a277f84adf109f1aad85b2185e5365243b5b5c2202e28f96cfb8fecc6

ContractAddress: 0x14BFDF07AA5bc686C08EB8d3416A4f715CdA9887

**DistributorRole**

Tx hash: 0x2278be0db96ee360ca2ba43e76c0ab72d9e2ee1c6ca6ca6557e7be7b261d1d3a

ContractAddress: 0x962524947bF6807742f5E34C6457Fe4AB12c5EEf

**RetailerRole**

Tx Hash: 0x4ca25f1c287701ab126b536ef297fca0a05a9851cb37053ac9f7691cfc9b63c6

ContractAddress: 0x78F6432d1b3E635Bf1379Ad263Ac01a5895ec1F9

**ConsumerRole**

Tx Hash: 0x94f3c5f2bf8c56af94d4220e0aff50fb1e9d7d5bbe5ae483021279170af7f860

Contract Address: 0xEeB6137d4f135f5b52460a82f955899A599A0F64

**SupplyChain**

TxHash: 0xd575bb8ad78c8741b7d96339c240546a74f4ea2b1321c9d31c8cad9fdfad2d35

Contract Address: 0x14487612cfeaced7240cfdf311fedc1d24c70da3

**Node Version**: v14.17.0

**Truffle**: v5.7.0 (core: 5.7.0)

**Ganache**: v7.5.0

**Solidity**: v0.5.16 (solc-js)

**Web3.js**: v1.7.4

# **Project Write Up – UML**

**Activity Diagram**

|  |  |  |  |
| --- | --- | --- | --- |
| **Farmer** | **Distributor** | **Retailer** |  |
| Ship Sold Item  Mark Forsale Item  Pack Item  Harvest Item  Process Item | Buy Item | Receive Item | Purchase Item |

**Sequence Diagram**

Distributor

Retailer

Consumer

Farmer

Coffee

harvestProduct()()

processItem()()

packItem()

addItem()

buyItem()

shipItem()

receiveItem()

purchaseItem()

**State Diagram**

Consumer

isReceived

Purchase

Retailer

isShipped

Id

Receive

Farmer

IsFarmer Bought

Id

ShipItem

Distributor

isDistributor IsForSale HasEther

Has

Id

Buy Item

Farmer

isFarmer IsPacked

Id

List Item For Sale

Farmer

isFarmer IsProcessed

Id

Pack Item

Farmer

isHavested

Process Item

Farmer

isFarmer

Harvest Item

**Product State**

Purchased

Sold

Received

Sold

Harvested

ForSale

Packed

Processed