SupplyChain Smart Contract Project Planning

1. Access Control

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| Roles Library |
| Provides management methods for a role in the supply chain line |
| -add(): add the address to the role’s list to let it become that role  -remove(): remove the address from the role’s list so that it’s no longer that role  -has(): check if an address is a specified role |

Roles

Distributor

Consumer

Retailer

Farmer

1. Base

SupplyChain - defines and provides the operations that each role can do:

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| **Role** | **Actions** |
| Consumer | Purchase from retailers |
| Farmer | Grow and harvest, process, pack, and put goods up for sale |
| Retailer | Get goods from distributors; confirm receiving |
| distributor | Buys goods from farmers and distribute to retailers |

1. Core

Ownable - defines basic authorization control for contract