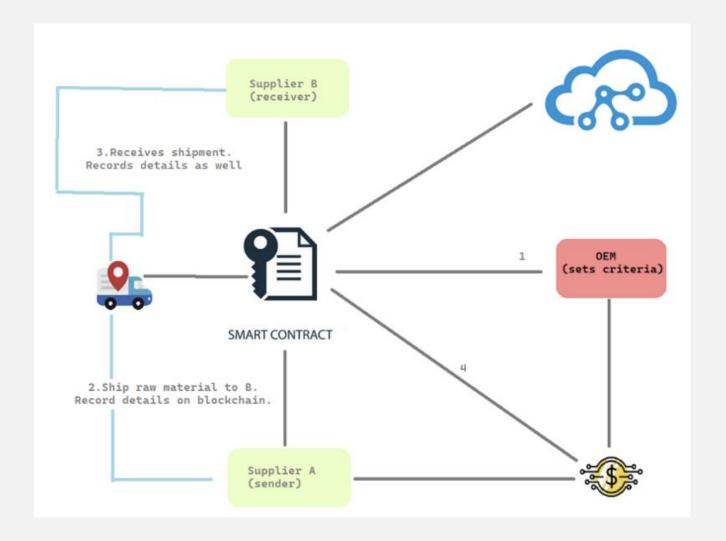
# SMART CONTRACTS FOR RESOURCE PLANNING AND MANAGEMENT

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SCPD



Improve the Supply Chain Management through the use of smart contracts by addressing two main aspects:

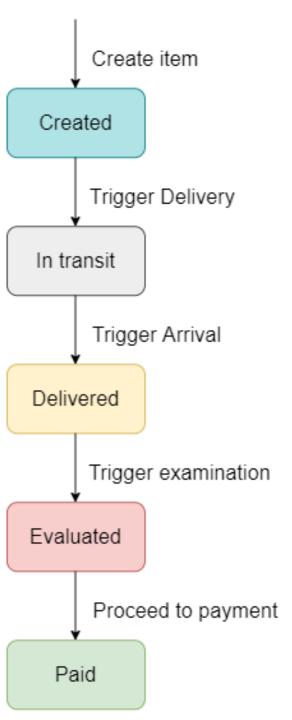
- Traceability allowing inventory tracking
- Efficiency through simplified automated processes initiated by smart contracts



SMART CONTRACTS IMPLEMENTATION ItemManager.sol

Item.sol

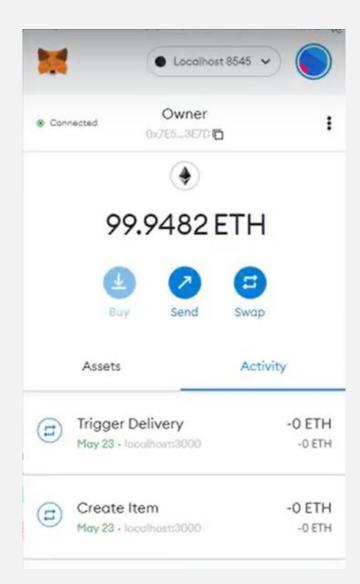


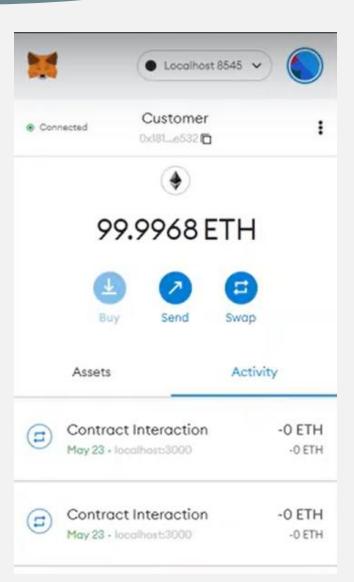




- Provides address for each item in the ItemManager
- Address is used for payments

# **METAMASK**





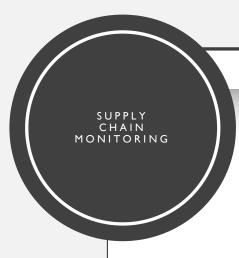


## **OWNER**

- Owner of the smart contract
- Creates new items
- Delivers the items

## **CUSTOMER**

- Receives the items
- Evaluates the items
- Pays for the items



#### Add Items

Cost in Wei:
54990

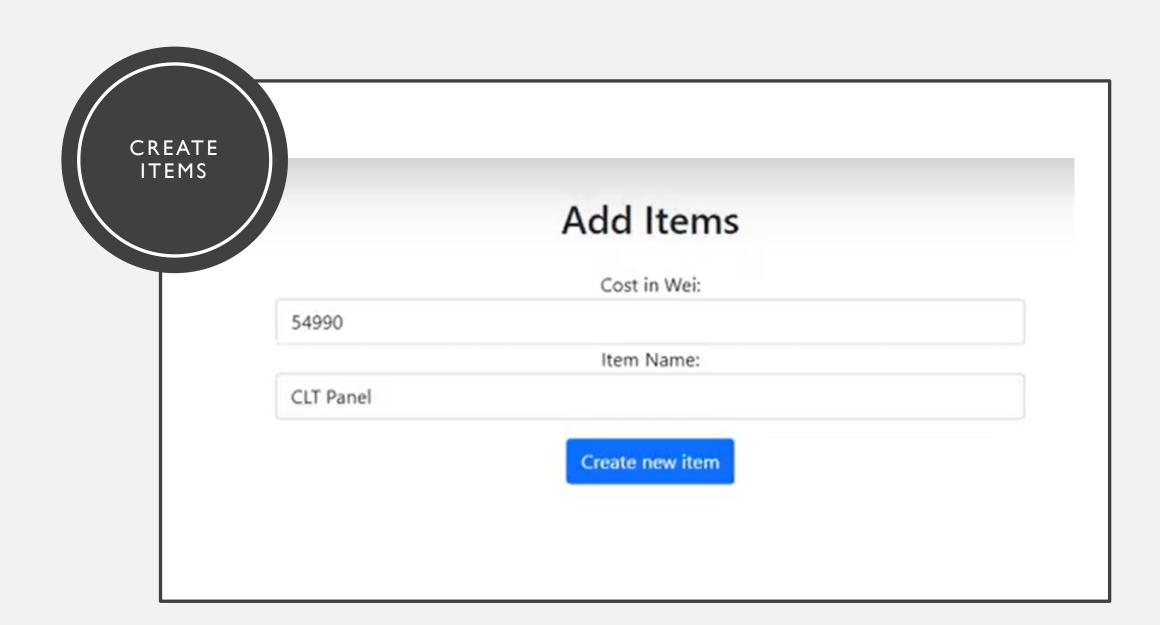
Item Name:

CLT Panel

Create new item

#### Items

Ħ	Address	Name	Cost	Quality	Status	Actions
47	0xefbe061464d39648BeF445A62361246ffE9725a5	Concrete	10000	10	Paid	
48	0xF88deb5161F29c3326e913cF41143f48f78FA622	Sand	23000	10	Evaluated	Proceed to Payment
49	0x16A3D52B1d3EB646Cc8e9C977F86a5462fA36e0B	Brick	34000	10	Delivered	Trigger Examination
50	0x02C7747B1C58c4CD26528Bb19CFEab67aB081a2C	Steel	45000	10	In transit	Trigger Arrival
51	0x752F4f8Fc176a6932B662D261cDA067B129C180f	Sand	56000	10	Created	Trigger Delivery



#### **Items**

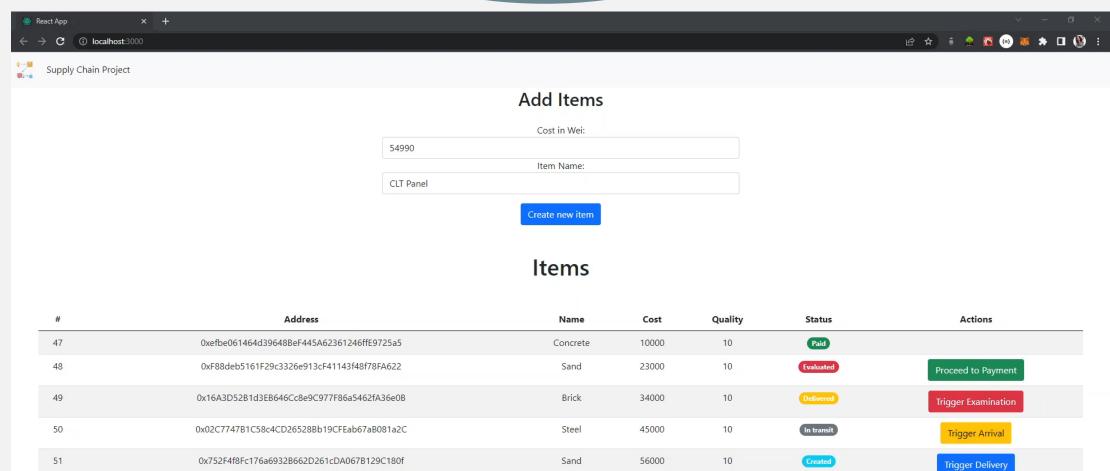
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# **ITEMS VIEW**

- Unique ID
- Address to pay
- Name
- Cost

- Quality
- Status
- Actions

















# **FURTHER IMPROVEMENTS**

Add to more information when creating an item

2

Add evaluation to frontend to determine quality

3

Add authentication for customer and owner (using Metamask)

4

Add a database

# THANK YOU