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Technical Documentation LAB 3 – Supply Chain

```
contract ItemManager{
         enum SupplyChainSteps{Created, Paid, Delivered}
         struct S_Item {
            ItemManager.SupplyChainSteps _step;
            string _identifier;
            uint _priceInWei;
         mapping(uint => S_Item) public items;
         uint index;
17
         event SupplyChainStep(uint _itemIndex, uint _step);
18
19
         function createItem(string memory _identifier, uint _priceInWei) public {
            items[index]._priceInWei = _priceInWei;
21
            items[index]._step = SupplyChainSteps.Created;
22
            items[index]._identifier = _identifier;
23
            emit SupplyChainStep(index, uint(items[index]._step));
24
            index++;
25
26
         function triggerPayment(uint _index) public payable {
27
            require(items[_index]._priceInWei <= msg.value, "Not fully paid");</pre>
            require(items[_index]._step == SupplyChainSteps.Created, "Item is further in the supply
28
            items[_index]._step = SupplyChainSteps.Paid;
            emit SupplyChainStep(_index, uint(items[_index]. step));
```

Code berikut memungkinkan untuk menambah membayar dan memindahkan sebuah item ke dalam *Supply Chain* dan memicu pengiriman.