<u>CAPSTONE PROJECT – DRUG COUNTERFIET</u>

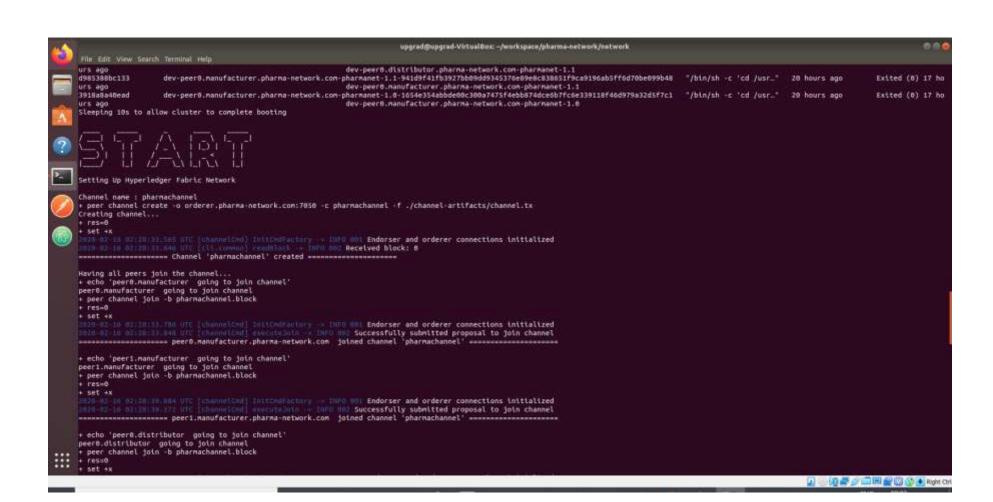
<u>AUTHOR – VIJAYA KRISHNA STP</u>

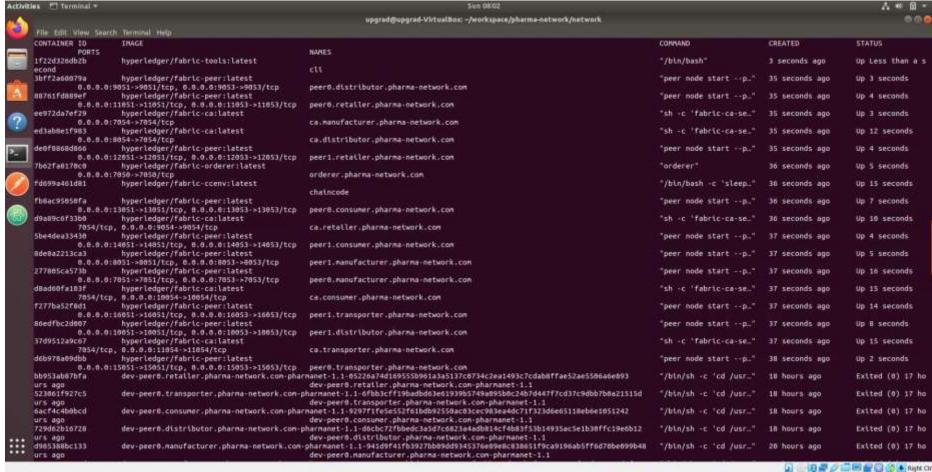
Table of contents

INTRODUCTION	2
TEST CASE 1: INITIATION	9
TEST CASE 2: SUPPLY CHAIN	
TEST CASE 3: HISTORY TRACK DOWN	
OTHER POSTMAN EXECUTION RELATED LOGS	

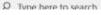
Introduction

Before getting into test cases and proving the project, we need to make sure "Crypto materials" are generated and the "Network is up" and the chain code is "Installed.". All these steps are performed as shown in the below images.































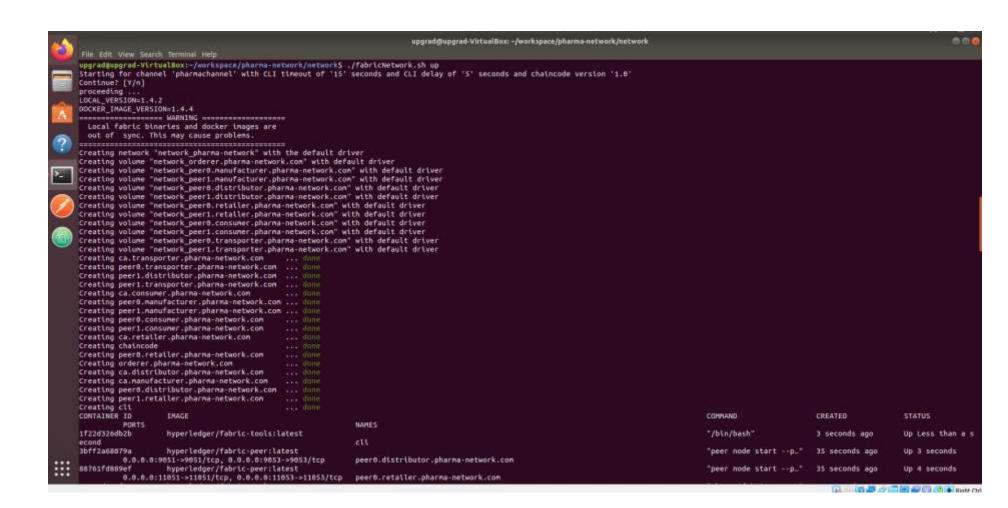






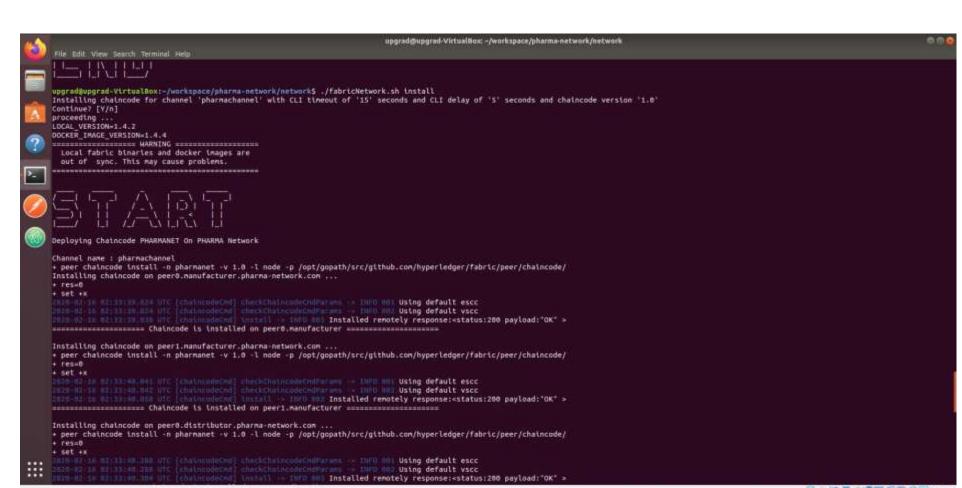






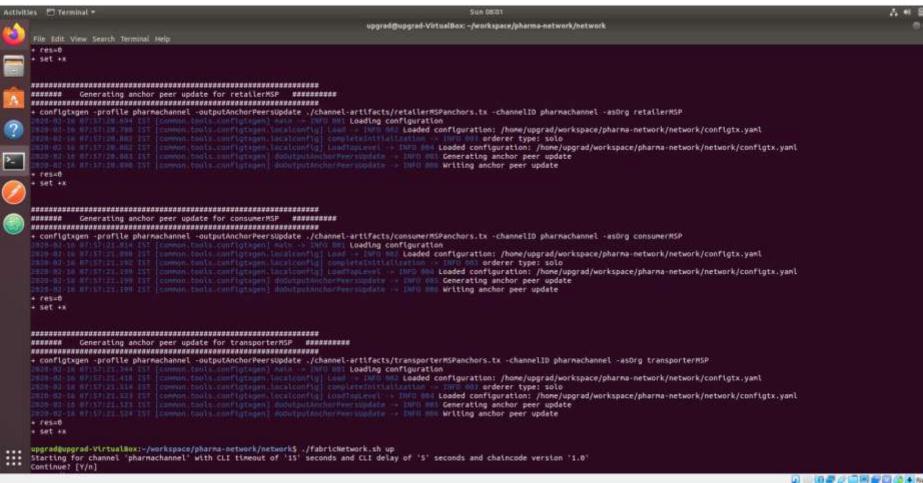
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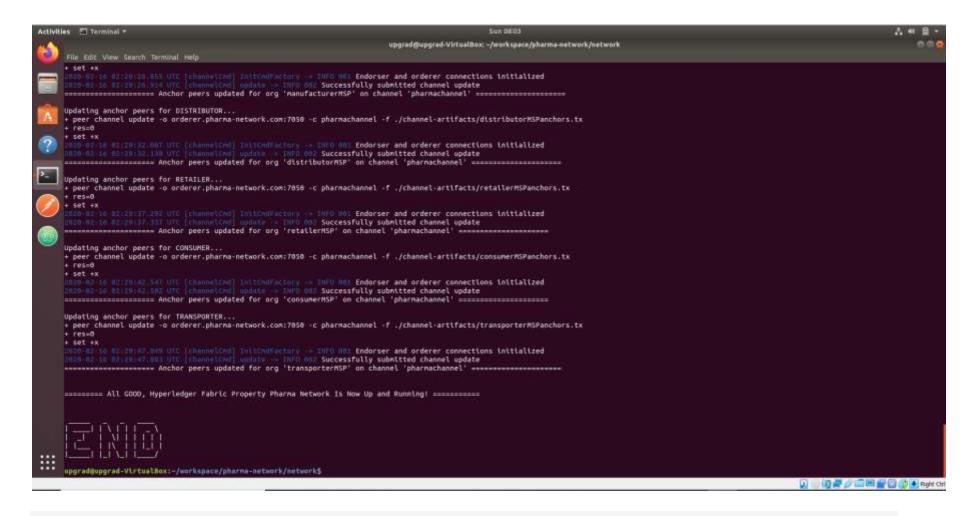




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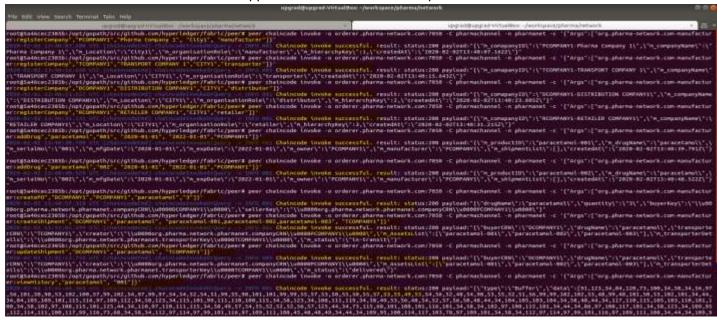


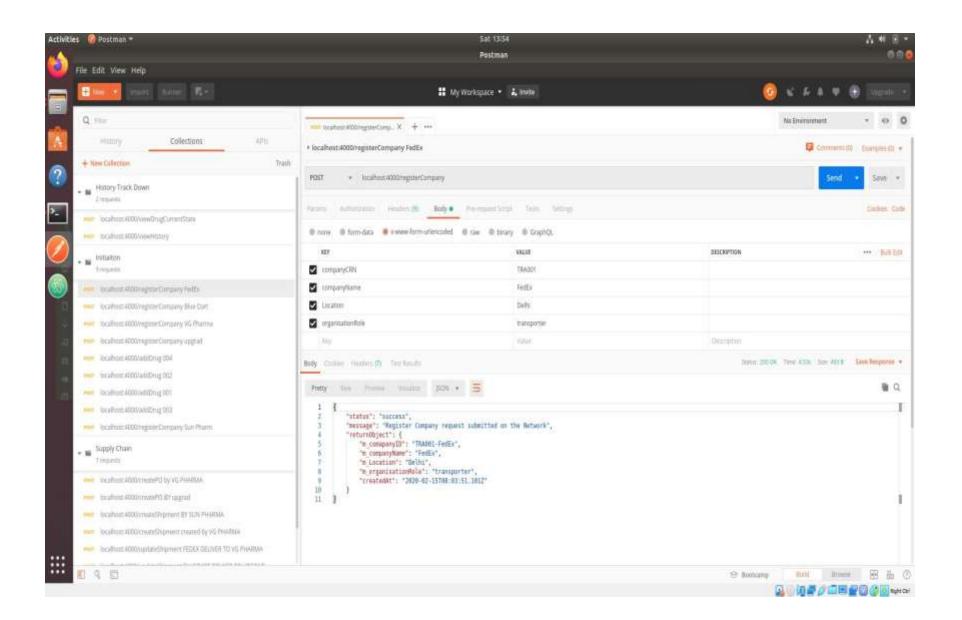
Test Case 1: Initiation

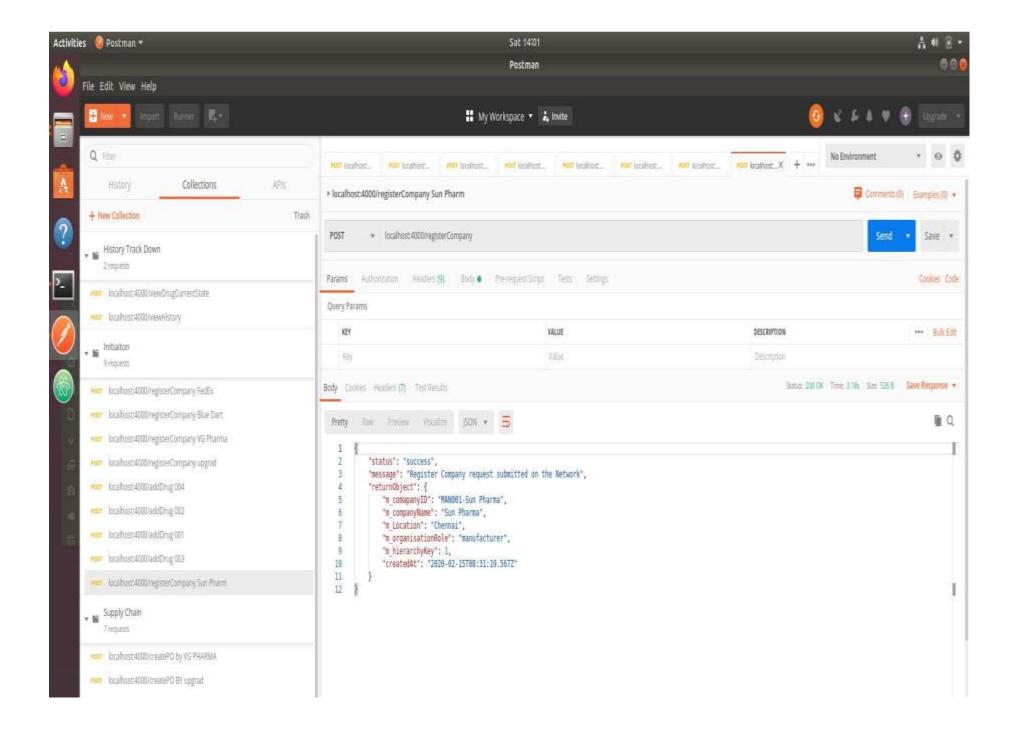
As per this test case we need to

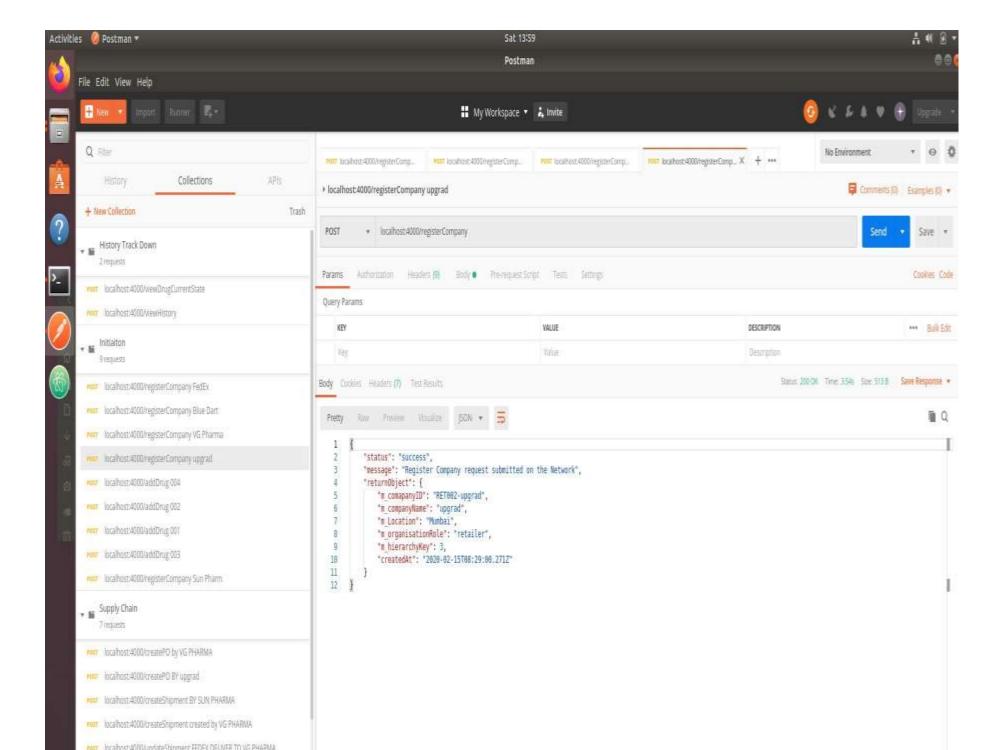
- Register companies, add drugs. All the companies Sun Pharma, FedEx, Blue Dart, VG Pharma, and upgrad are registered.
- And 4 strips of a drug named 'Paracetamol' with serial number starting from '001' to '004' are added.

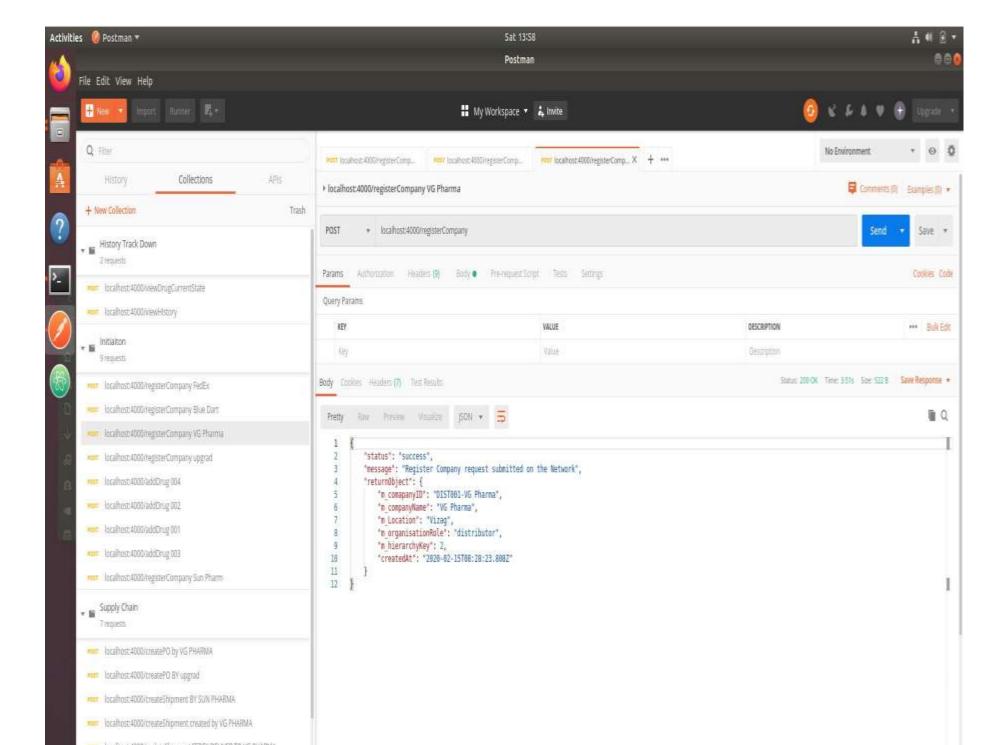
• And also do the same via Node Application as shown in the snap shots.

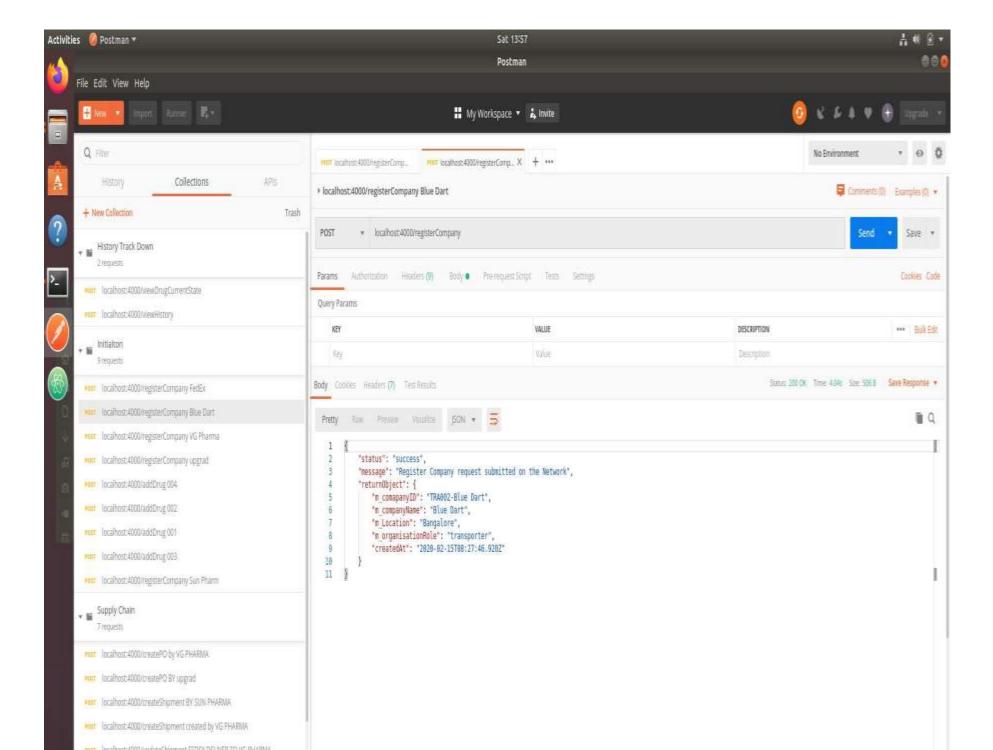


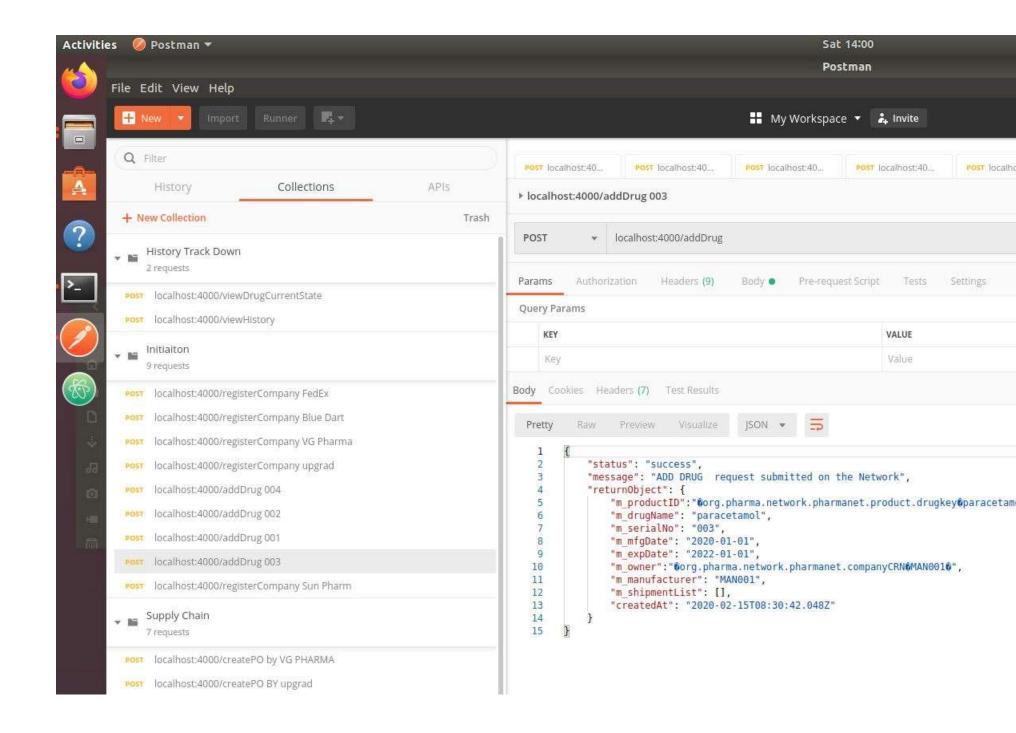


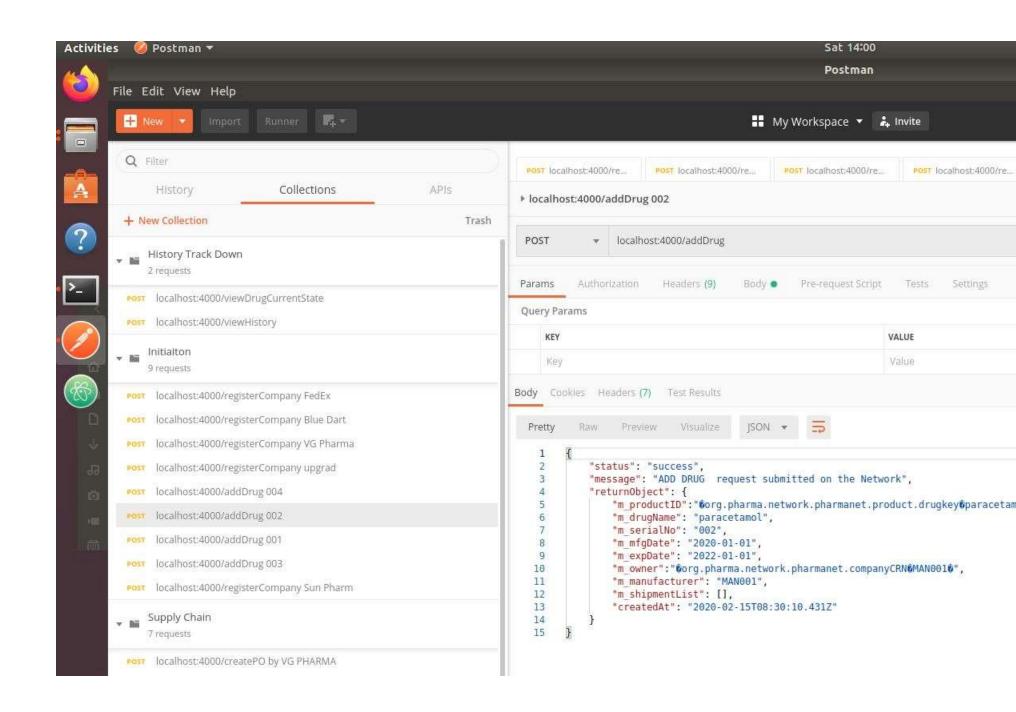


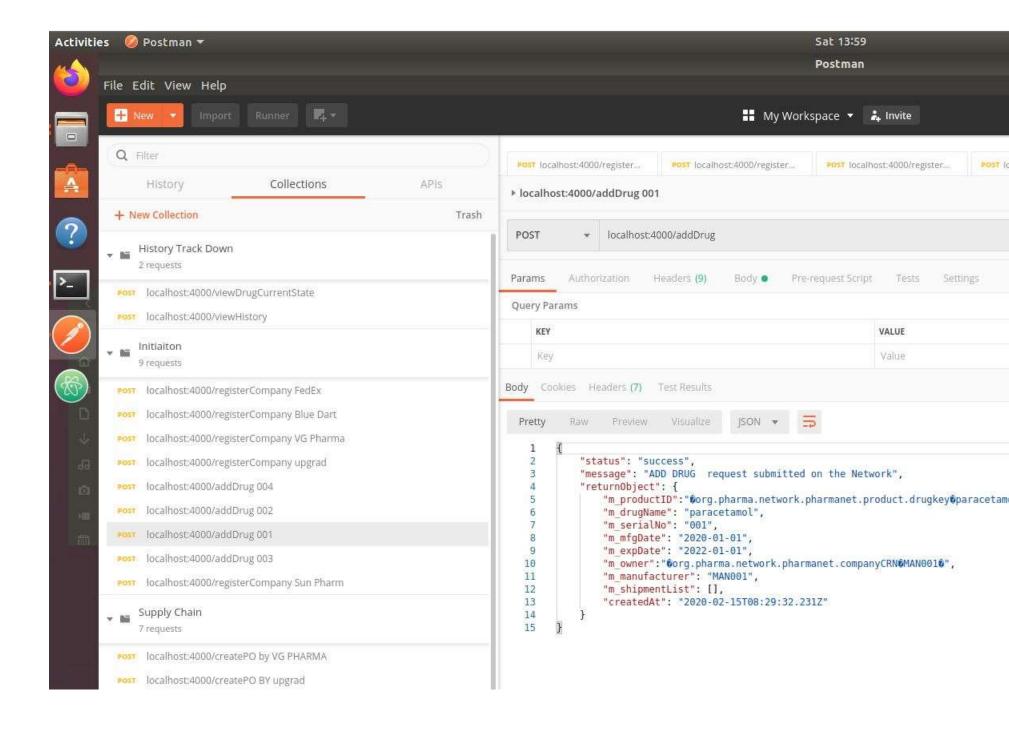


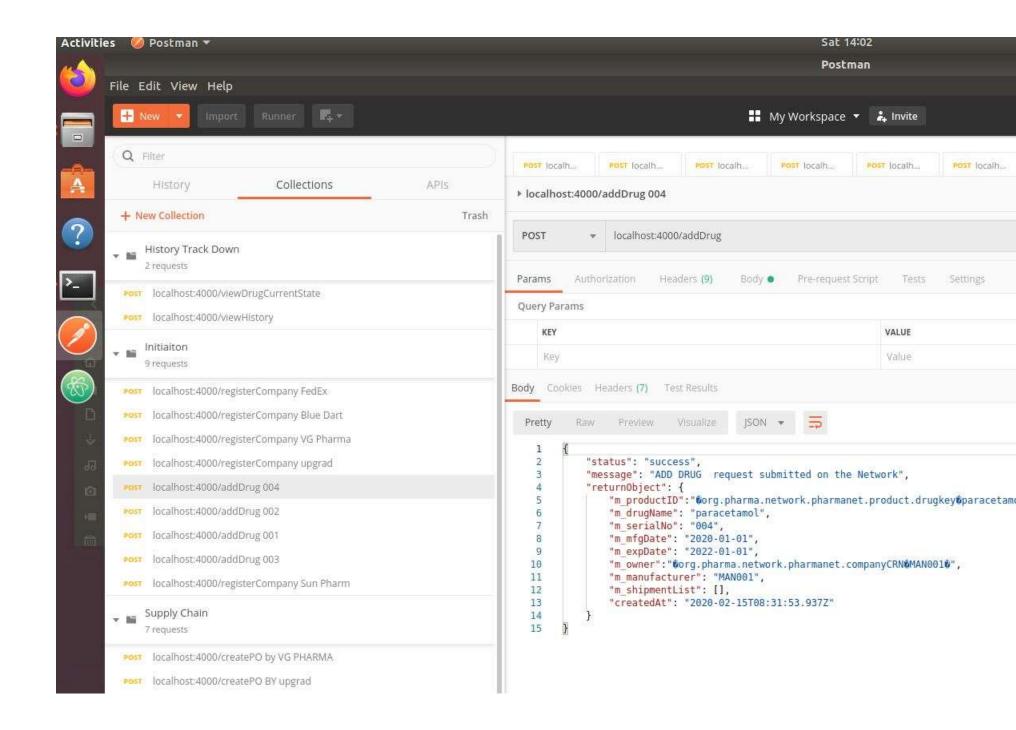








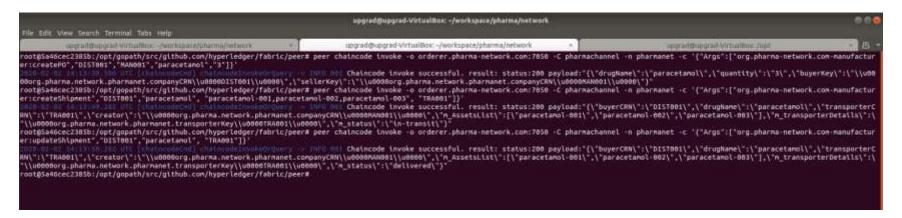




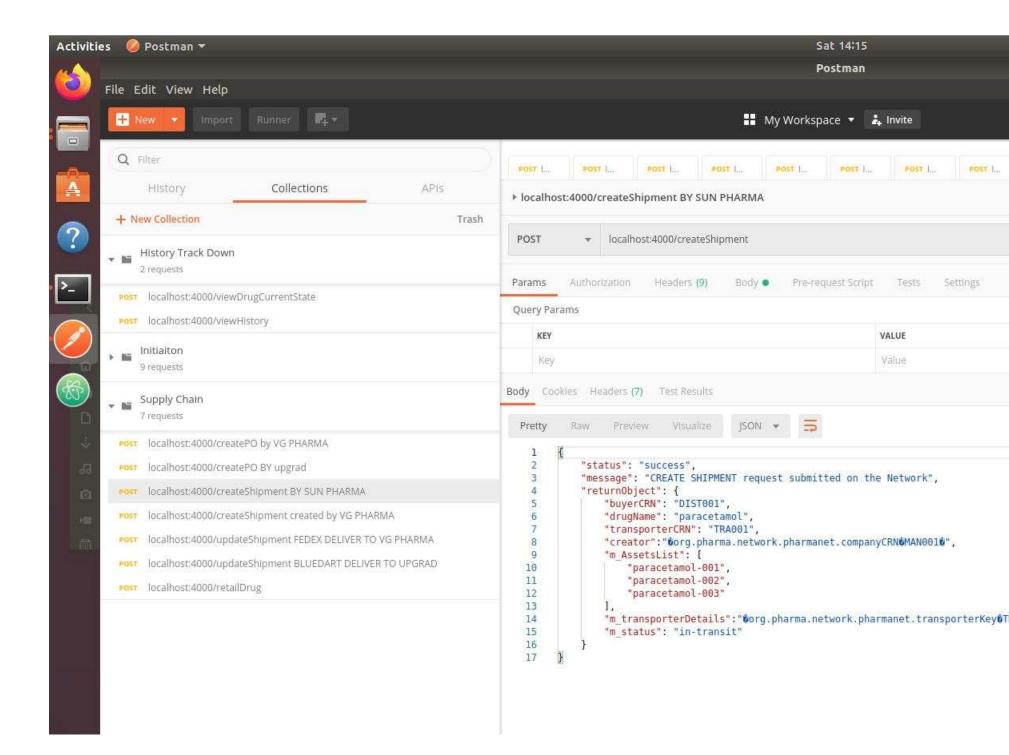
Test Case 2: Supply Chain

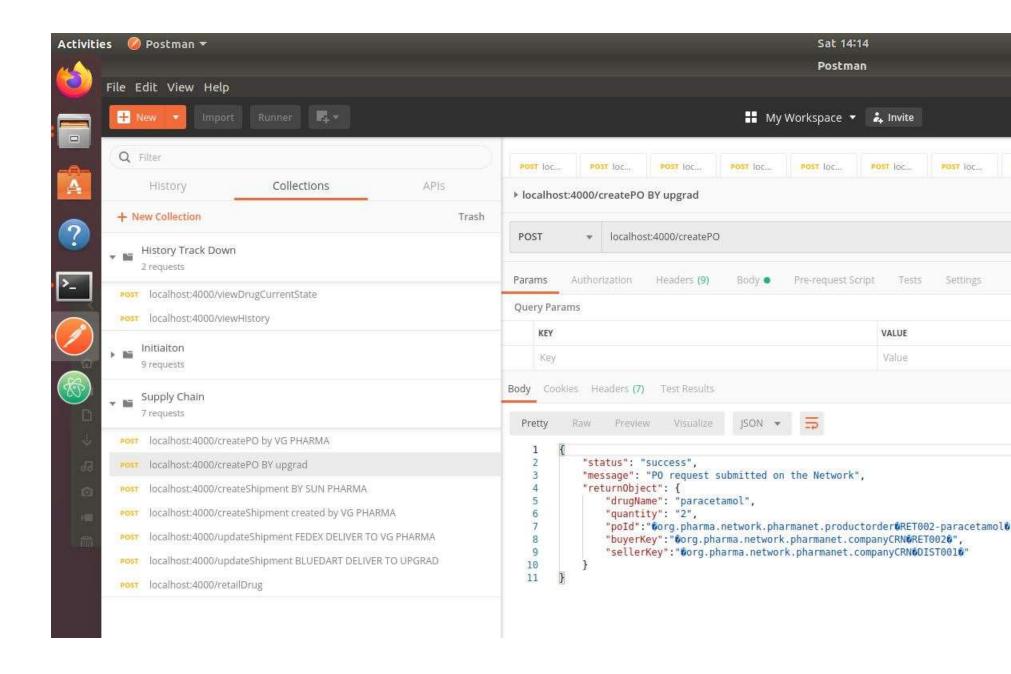
As per this test case we need to

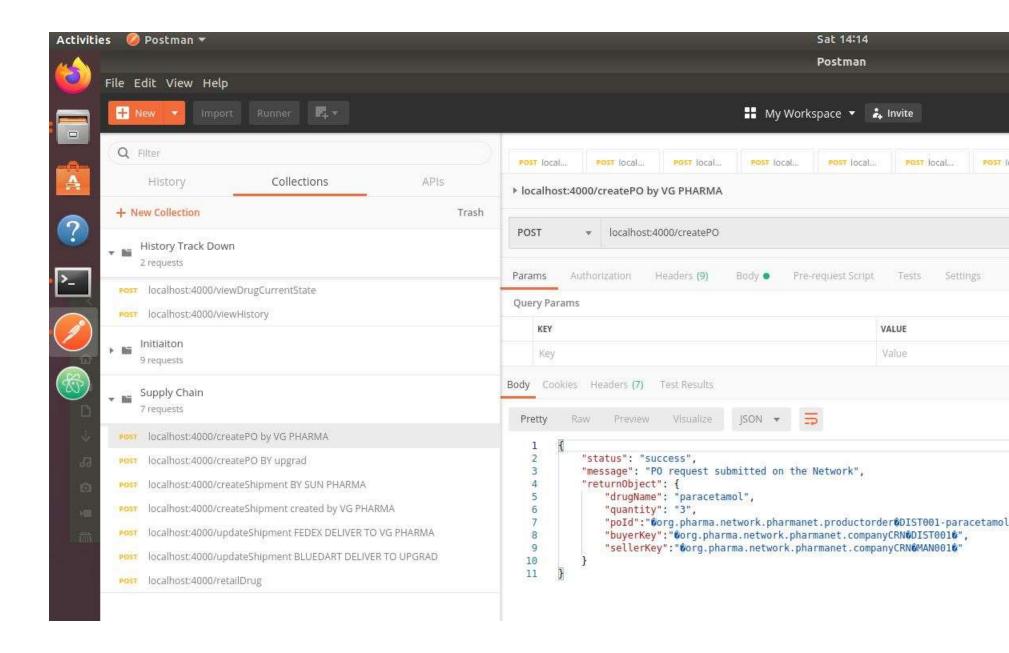
- Create Purchase Orders, Shipment of the order and deliver the shipment via transporter
- And do same as above bullet with different companies.
- as shown in the snap shots.

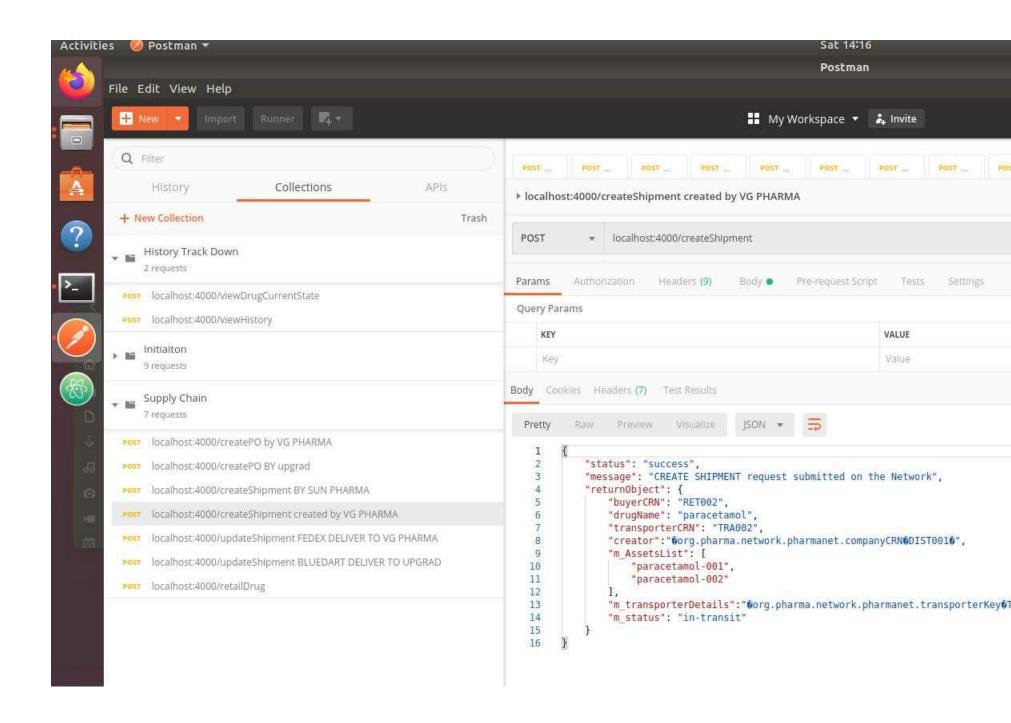


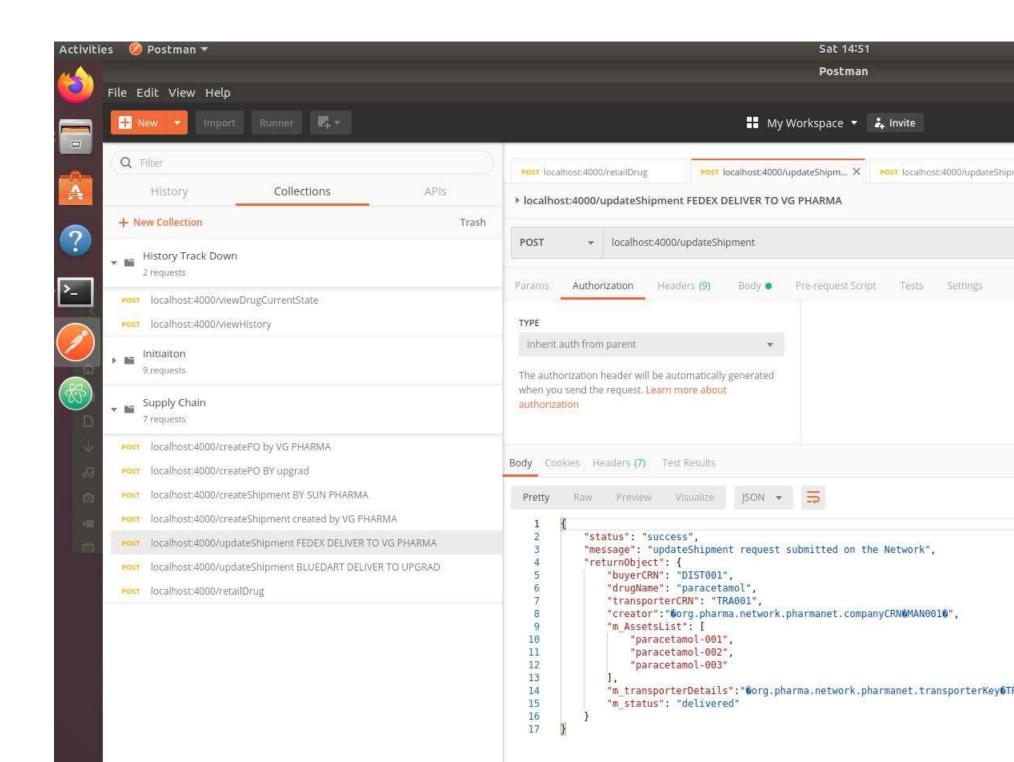
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HERE BY BY BY LESUSS HERE HITC (Chabranderad) shidacadelaceheDriberry	the Chaincode invoke successful, result: status:200 pa	ayload:"[\"m_productID\":\"paracetanul-001\",\"m_drugName\":\"para	acetamol\",\
'm serialNo\"\"001\"\"m mfgDate\"\"220-01-01\"\"m expDate\"\"20 root@Sa+6cec2385b:/opt/gopath/src/github.com/hyperledger/fabric/peer# er:addDrug"_paracetamo\".002"_2020-01-01"_2022-01-01",005T001	peer chaincode invoke -o orderer.pharma-network.com:7858 -		
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		eyload:"{\"buyerCRN\":\"RET801\",\"drugName\":\"paracetamol\",\"to	ransporterCR
<pre>v*:\"TRA862\",\"creator\":\"\\u8866org.pharma.network.pharmanet.comp ptwork.pharmanet.transporterKey\\u8868TRA662\\u8868\",\"m status\":\"</pre>	anyCRN\\u00000I5T001\\u0000\",\"n_AssetsList\":[\"paracetar		
oot@Sa+6cec2385b:/opt/gopath/src/glthub.com/hyperledger/fabric/peer# er:updateShipment","RET081","paracetamol", "TRA082"]}'		-C pharmachannel -n pharmanet -c '("Args":["org.pharma-network.com	-manufactur
n\":\"TRABB2\",\"creator\":\"\\u0000org.pharma.metwork.pharmamet.comp ptwork.pharmamet.transporterKey\\u0000TRABB2\\u0000000\",\"n_status\":\" not8346ce23U5b:/opt/gopath/src/github.com/hyperledger/fabric/peer#	anyCRN\\u00000IST001\\u0000\",\"m_AssetsLlst\":[\"paracetar d <u>e</u> llvered\"}"	ayload:"(\"buyerCRN\":\"RETBB1\",\"drugName\":\"paracetamol\",\"ti mol-001\",\"paracetamol-002\"],\"m_transporterDeta\ls\":\"\\u00000	ansporterCR org.pharma.n

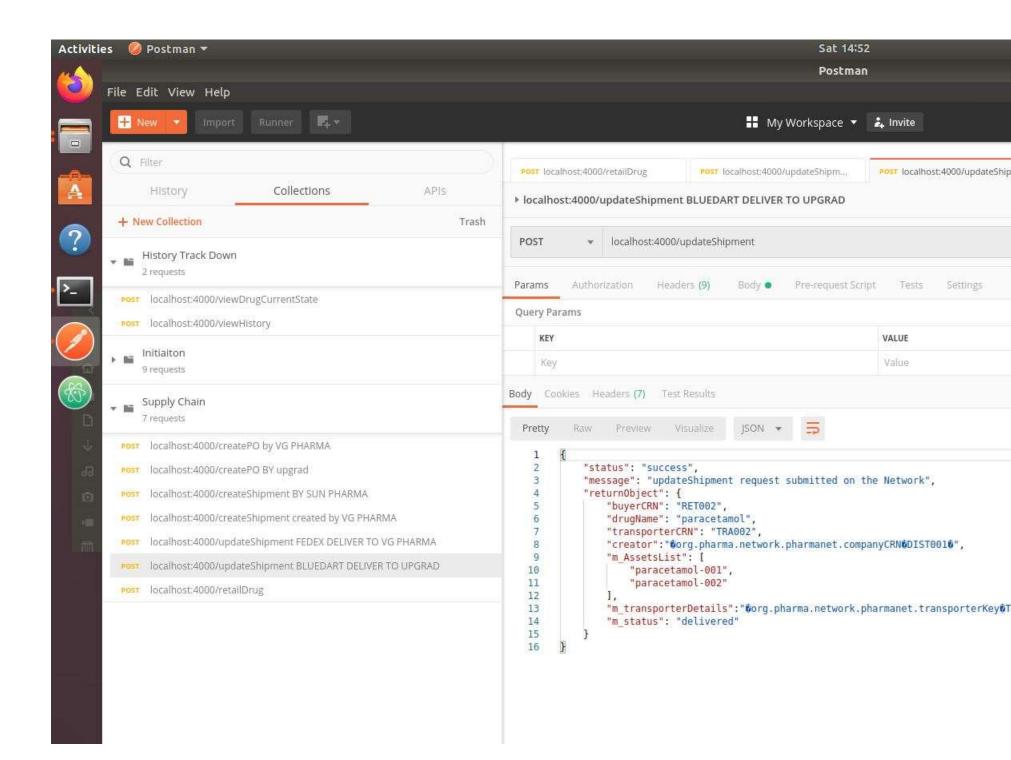








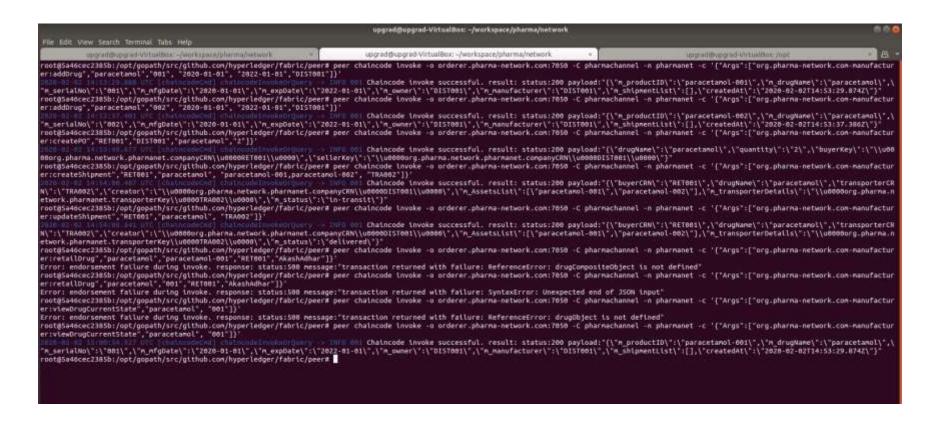


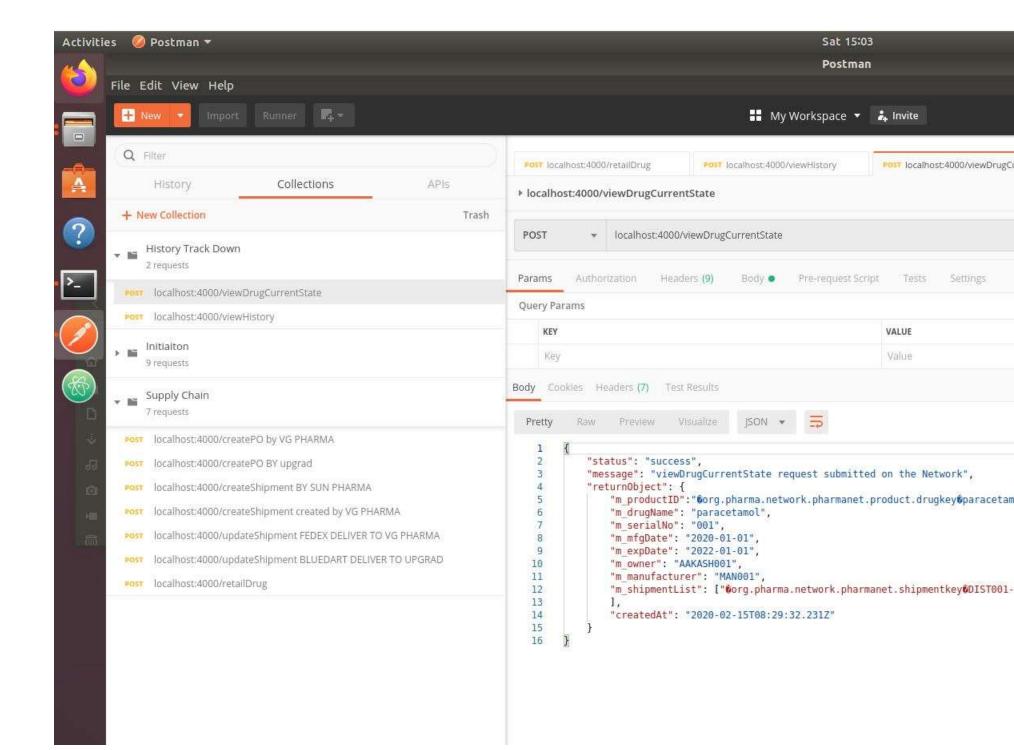


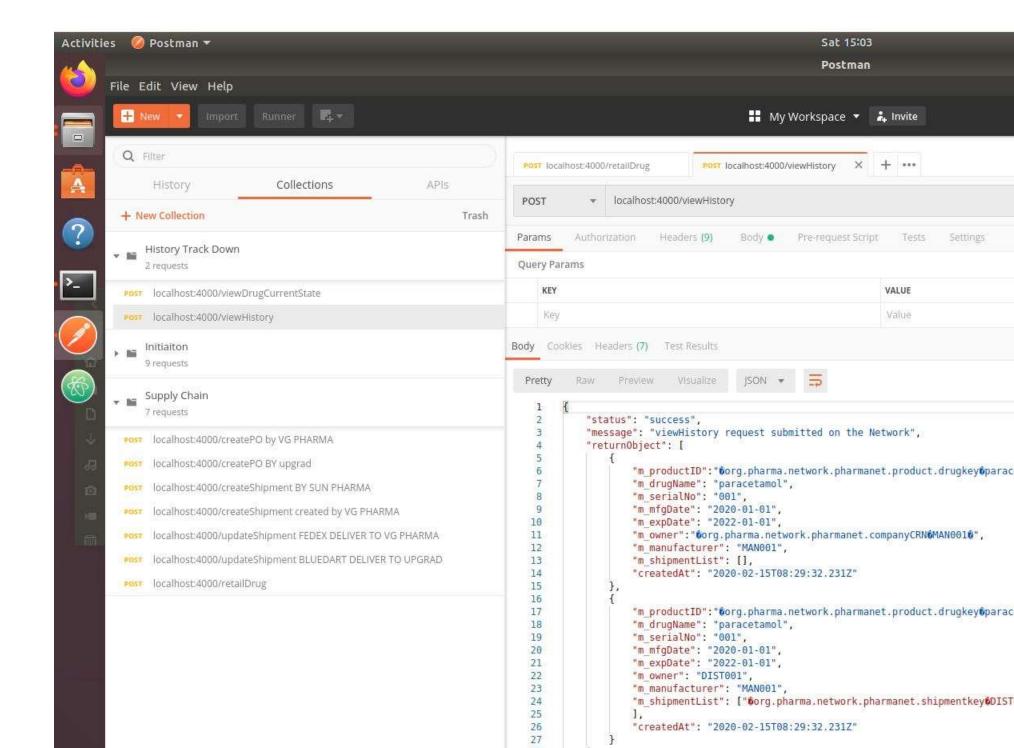
Test Case 3: History Track Down

As per this test case we need to

- Check the history and current state of the drug
- as shown in the snap shots.







Other PostMan Execution related logs

File Edit View Search Terminal Tabs Help upgrad@upgrad-VirtualBox: ~/workspace/pharma-network/network m_comapanyID: 'TRA001-FedEx', m_companyName: 'FedEx', m Location: 'Delhi', m organisationRole: 'transporter', createdAt: '2020-02-15T08:03:51.101Z' }Register companY Transaction Complete!Disconnecting from Fabric Gateway Register Company request submitted on the Network Comapny Object is { status: 'success', message: 'Register Company request submitted on the Network', returnObject: { m_comapanyID: 'TRA001-FedEx', m companyName: 'FedEx', m Location: 'Delhi', m_organisationRole: 'transporter', createdAt: '2020-02-15T08:03:51.101Z' } }Connecting to Fabric GatewayConnecting to channel - pharmachannelConnecting to pharmanet Smart ContractRequesting to register company on the NetworkProcessing register company Transaction Response

```
upgrad@upgrad-VirtualBox:~/workspace/pharma-network/application/manufacturer-application$ node .
Pharma Net App listening on port 4000!
User identity added to wallet.
.....Connecting to Fabric Gateway
.....Connecting to channel - pharmachannel
.....Connecting to pharmanet Smart Contract
....Requesting to register company on the Network
.....Processing register company Transaction Response
 m comapanyID: 'TRA001-FedEx',
 m_companyName: 'FedEx',
 m_Location: 'Delhi',
 m organisationRole: 'transporter',
 createdAt: '2020-02-15T07:59:34.012Z' }
.....Register companY Transaction Complete!
....Disconnecting from Fabric Gateway
Register Company request submitted on the Network
Comapny Object is { status: 'success',
 message: 'Register Company request submitted on the Network',
 returnObject:
  { m_comapanyID: 'TRA001-FedEx',
    m companyName: 'FedEx',
    m_Location: 'Delhi',
    m organisationRole: 'transporter',
    createdAt: '2020-02-15T07:59:34.012Z' } }
.....Connecting to Fabric Gateway
....Connecting to channel - pharmachannel
.....Connecting to pharmanet Smart Contract
....Requesting to register company on the Network
.....Processing register company Transaction Response
```

```
File Edit View Search Terminal Tabs Help
                         upgrad@upgrad-VirtualBox: ~/workspace/pharma-network/network
{ m comapanyID: 'TRA002-Blue Dart',
  m_companyName: 'Blue Dart',
  m Location: 'Bangalore',
  m organisationRole: 'transporter',
  createdAt: '2020-02-15T08:27:46.920Z' }
.....Register company Transaction Complete!
.....Disconnecting from Fabric Gateway
Register Company request submitted on the Network
Comapny Object is { status: 'success',
  message: 'Register Company request submitted on the Network',
  returnObject:
  { m comapanyID: 'TRA002-Blue Dart',
     m companyName: 'Blue Dart',
     m_Location: 'Bangalore',
     m organisationRole: 'transporter',
     createdAt: '2020-02-15T08:27:46.920Z' } }
.....Connecting to Fabric Gateway
.....Connecting to channel - pharmachannel
.....Connecting to pharmanet Smart Contract
.....Requesting to register company on the Network
.....Processing register company Transaction Response
```



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