Starting the network:

1. Generate crypto material and channel artifacts Command:

sudo ./fabricNetwork.sh generate

```
upgradipaged-VirtualDox:/purkspace/pharna-net-org/ cd network/
upgradipaged-VirtualDox:/purkspace/pharna-net-org/ cd network/
upgradipaged-VirtualDox:/purkspace/pharna-net-org/ contended to the contended to the
```

```
Upgrad/pupped virtualistic -/workspace/pharma-net-org/network

Pie Edit View Sarch Teminal Help

2010-0727 1215107-560 151 (common.tools.com/tytegen.localcom/tg) Loaffopt.evel -- 1070 880 Loaded configuration: /home/upgrad/norkspace/pharma-net-org/network/configtx.yanl

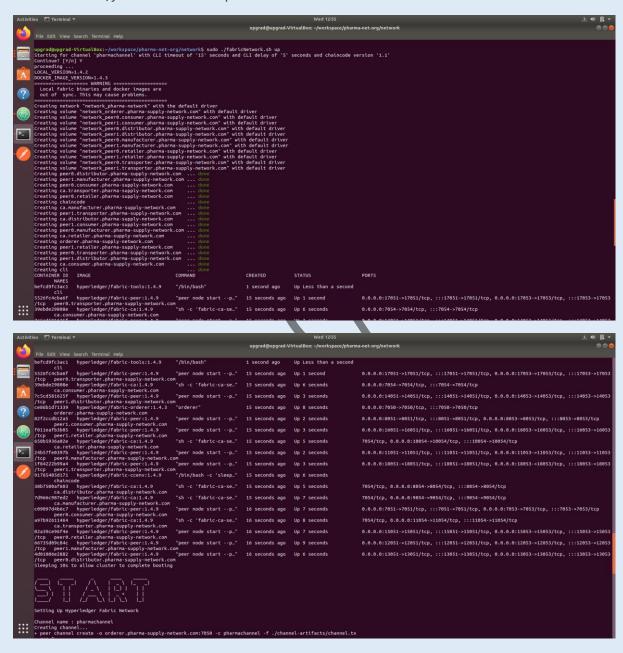
2010-0727 1215107-560 151 (common.tools.com/tytegen.localcom/tg) Loaffopt.evel -- 1070 880 Loaded configuration: /home/upgrad/norkspace/pharma-net-org/network/configtx.yanl

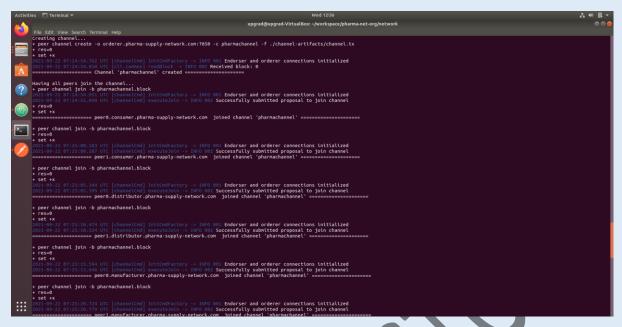
2010-072 1215107-560 151 (common.tools.com/tg) Sobjects (channel-artifacts/retailer/figanchors.tx -- channel ID pharmachannel -- story retailer/figanchors.tx --
```

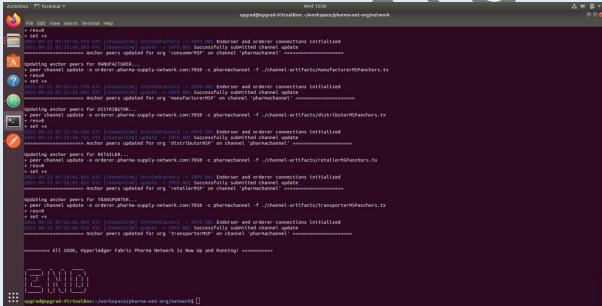
Create Docker container, create and join channel, update anchor peer

Command:

sudo ./fabricNetwork.sh up







Connect to the chaince de Intainer and run the chaincode:

Command:

docker exec – it chaincode /bin/bash

npm install (to download all the dependencies)

npm run start-dev (run the script)

Install and instantiate chaincode:

Command:

sudo ./fabricNetwork.sh install

```
### Digrad@uppred.VirtualBox:-/workspace/pharma-net-org/network

### Digrad@uppred.VirtualBox:-/workspace/pharma-net-org/network

### Digrad@uppred.VirtualBox:-/workspace/pharma-net-org/networks.

### Digrad@uppred.VirtualBox:-/workspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/pharma-net-org/networkspace/ph
```

Starting node application

1. Navigate to the application folder:

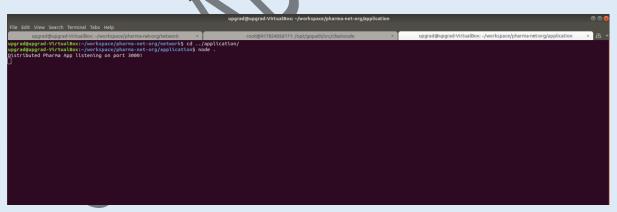
Command:

cd /home/upgrad/workspace/pharma-network/application

Note: make sure to update the key stores to make sure identity can be successfully stored in the wallet.

2. Start node using

node . or node index.js



Identity for all the organisations is stored at /home/upgrad/workspace/pharma-network/application/addToWalletForAllOrg

Using postman to run test collections:

- 1. Launch Postman
- 2. Select Collections and export collections from the test folder.
- 3. Select a collection and run them

collections are exported/saved from /home/upgrad/workspace/pharma-network/test/postman collection

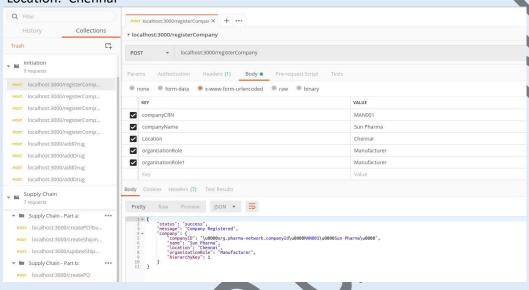
Select the collection and run them

Test Case 1: Initiation

Create a collection file named 'initiation' which contains the HTTP requests to perform the following Function.

Create a manufacturer with the following details:

Name: 'Sun Pharma'
CRN number: 'MAN001'
Location: 'Chennai'

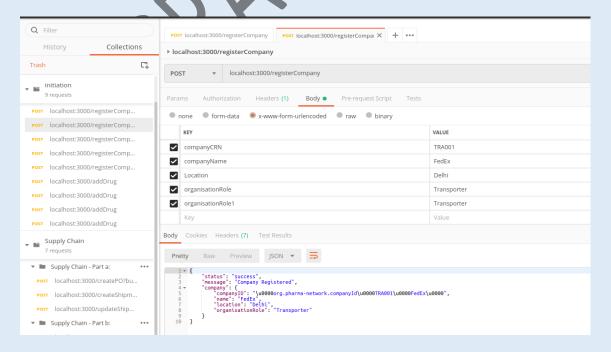


Create a transporter with the following detail

Name: 'FedEx'

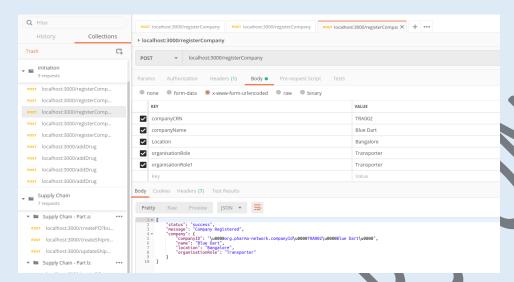
CRN number: 'TRA001'

Location: 'Delhi'



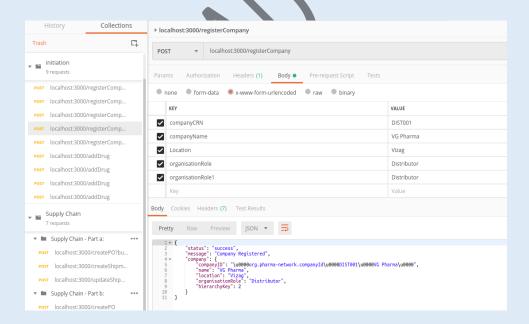
Create another transporter with the following details:

Name: 'Blue Dart' CRN number: 'TRA002' Location: 'Bangalore'



Create a distributor with the following details:

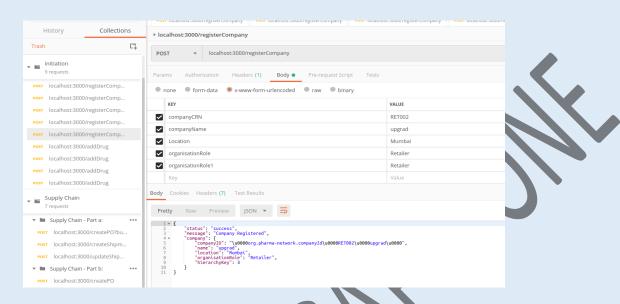
Name: 'VG Pharma' CRN number: 'DIST001' Location: 'Vizag'



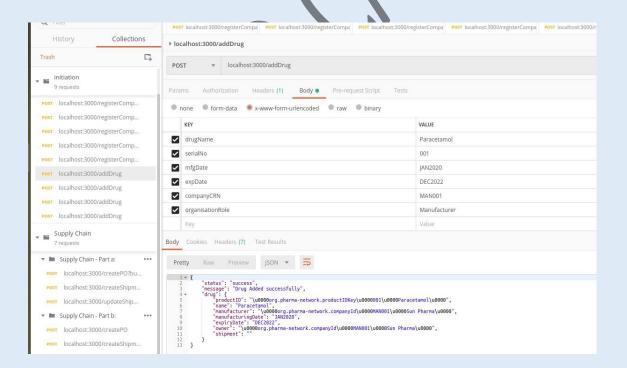
Create a retailer with the following details:

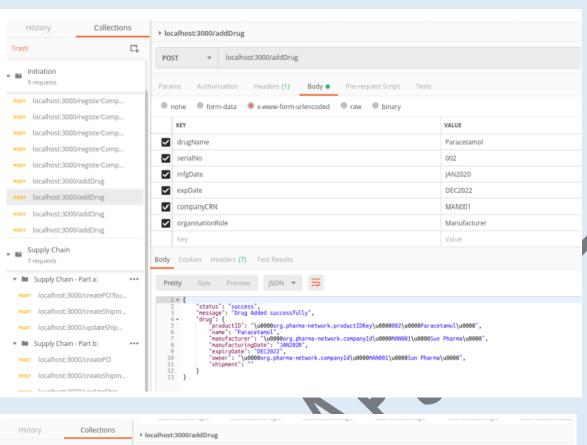
Name: 'upgrad'

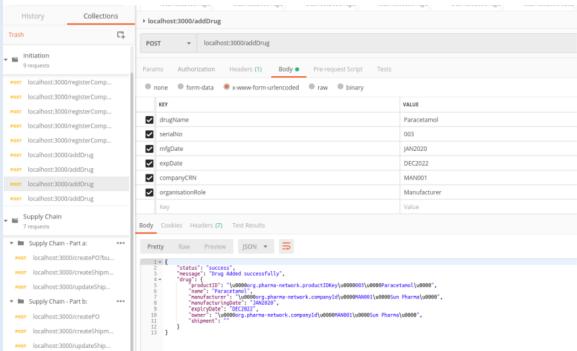
CRN number: 'RET002' Location: 'Mumbai'

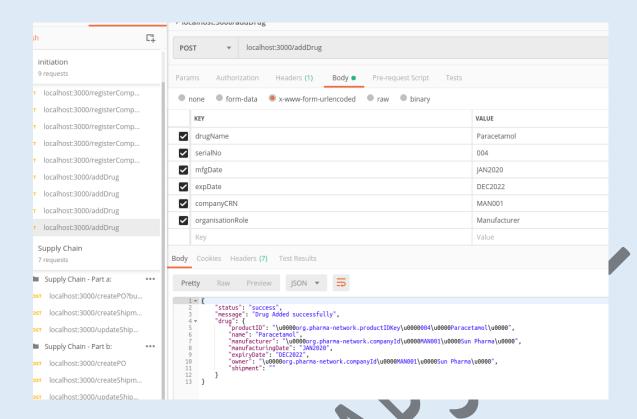


Create 4 strips of a drug named 'Paracetamol with seria was starting from '001' to '004'



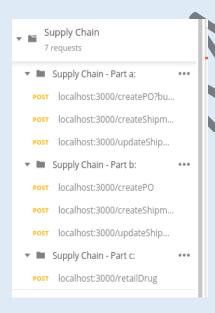






Test Case 2: Supply Chain

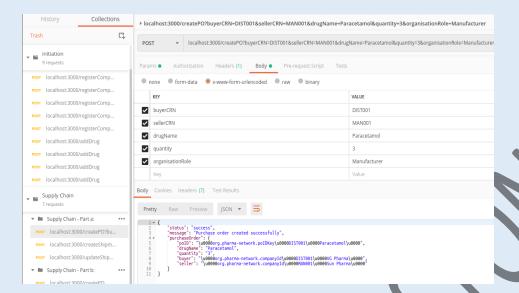
Create a collection file named 'Supply Chain' which contains the HTTP requests to perform the following functions.



Part a:

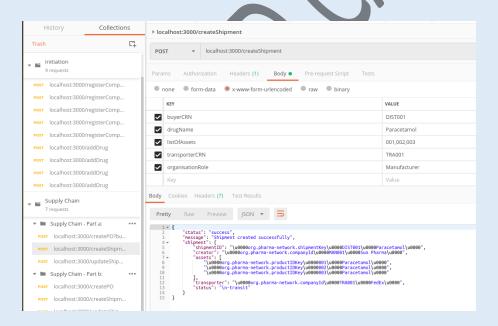
Purchase Order raised by 'VG Pharma' to purchase 3 strips of paracetamol from 'Sun Pharma'.

Expected Output: Display the PO object created in the response body.



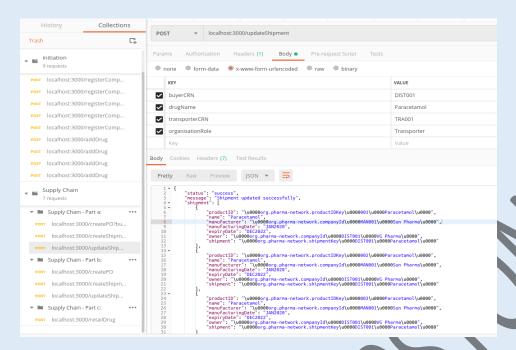
Shipment created by 'Sun Pharma' in response to the raised purchase order. 'FedEx' acts as the Transporter.

Expected Output: Display the Shipment object created in the response body.



'FedEx' delivers the shipment to 'VG pharma'.

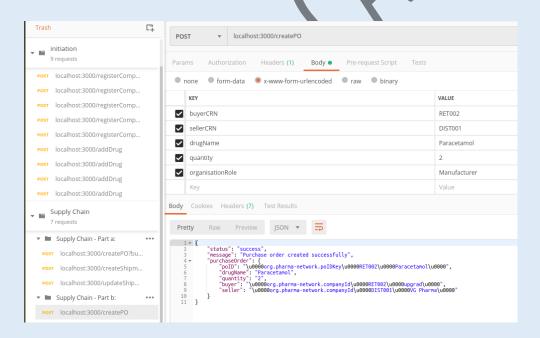
Expected Output: Display the data of each asset of the shipment.



Part b:

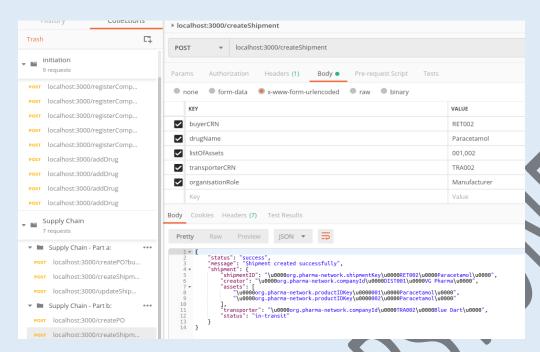
Purchase Order raised by 'upgrad' to purchase 2 strips of postcell mol from 'VG Pharma'.

Expected Output: Display the PO object created in the response body.



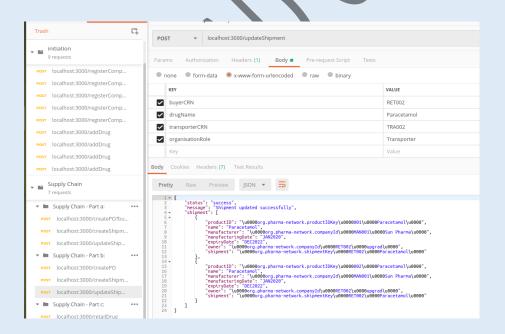
Shipment created by 'VG Pharma' in response to the raised purchase order. 'Blue Dart' acts as the transporter.

Expected Output: Display the Shipment object created in the response body.



'Blue Dart' delivers the shipment to 'upgrad'.

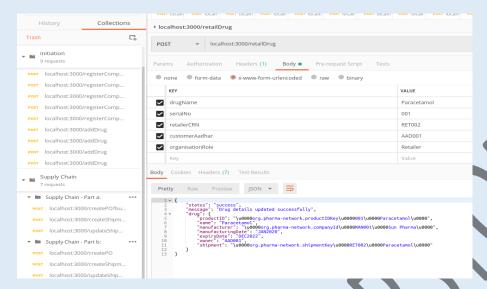
Expected Output: Display the data of each asset of the shipment in the response body.



Part c:

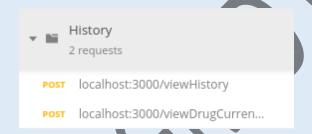
A customer named 'Akash' with Aadhar Number 'AAD001' buys 1 paracetamol strip from the retailer 'upgrad'.

Expected Output: Display the data of the asset bought by Akash in the response body.



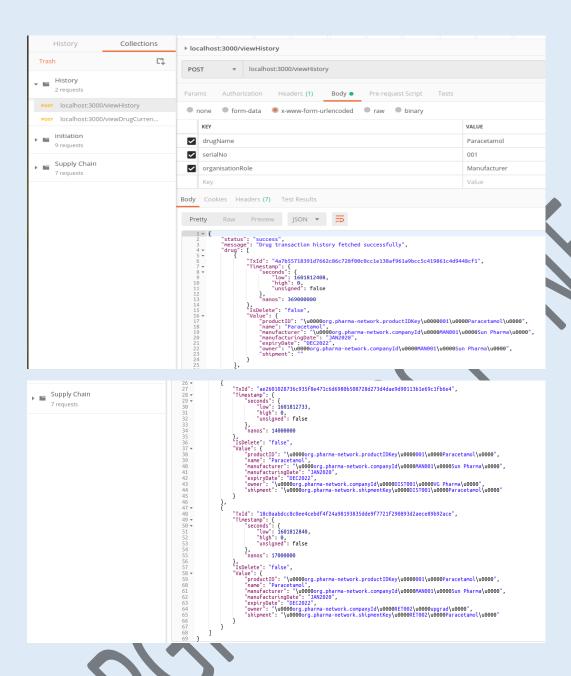
Test Case 3: History Tracking

Create a collection file named 'History' which contains the F-TR requests to perform the following functions.



The customer Mash' wishes to check the history of the paracetamol that he bought from 'upgrad'.

Expected Output: The response body should display the entire lifecycle of the asset.



The customer 'Akarh' with each check the current state of the paracetamol that he bought from 'upgrad'.

Expected Output: The response body should display the current state of the asset

