Property-Registration Project

I could not able to add terminal screenshots due to some issue at my end with docker containers (raised on discussion forum, but not yet resolved). However, I have framed the following command as per my understanding.

**Step 1) Bootstrap the network**

Execute the command ./fabricNetwork.sh up

**Step 2) Chaincode installation and Instantiation**

Execute the command ./fabricNetwork.sh install

**Step 3) Start the chaincode application**

1. SSH into chaincode container using: docker exec –it chaincode /bin/bash
2. Install node modules using npm install
3. start the node application using npm run start –dev

**Step 4) Smart Contract Method Invoke**

1. **requestNewUser**

SSh into peer0 of users: docker exec –it peer0.users.property-registration-network.com /bin/bash

*Execute the following command:*

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c'{"Args":["org.property-registration-network.regnet.users:requestNewUser","Shubham","shubh123@gmail.com","9892000100","12121391302202"]}'

1. **approveNewUser**

SSh into peer0 of registrar: docker exec –it peer0.registrar.property-registration-network.com /bin/bash

*Execute the following command:*

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c'{"Args":["org.property-registration-network.regnet.registrars:approveNewUser","Shubham”,"12121391302202"]}'

1. **rechargeAccount**

SSH into peer0 of users using command: docker exec -it peer0.users.property-registration-network.com /bin/bash

*Execute command:*

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c'{"Args":["org.property-registration-network.regnet.users:rechargeAccount","Shubham”,"12121391302202","upg500"]}'

1. **viewUser**

**for users:** ssh into peer0 of users:docker exec -it peer0.users.property-registration-network.com /bin/bash

*Execute command:*

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c'{"Args":["org.property-registration-network.regnet.users:viewUser","Shubham”,"12121391302202"]}'

**for registrar**

docker exec -it peer0.registrar.property-registration-network.com /bin/bash

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c'{"Args":["org.property-registration-network.regnet.registrars:viewUser","Shubham”,"12121391302202"]}'

1. **propertyRegistrationRequest**

ssh into peer0 of users:docker exec -it peer0.users.property-registration-network.com /bin/bash

*Execute command:*

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c'{"Args":["org.property-registration-network.regnet.users:propertyRegistrationRequest","100”,"200",”Shubham”,"12121391302202"]}'

1. **approvePropertyRegistration**

ssh into peer0 of registrars:docker exec -it peer0.registrar.property-registration-network.com /bin/bash

*Execute command:*

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c'{"Args":["org.property-registration-network.regnet.registrars:propertyRegistrationRequest","100”]}'

1. **updateProperty**

ssh into peer0 of users: docker exec -it peer0.users.property-registration-network.com /bin/bash

Execute command:

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c'{"Args":["org.property-registration-network.regnet.users:updateProperty","100","Shubham","12121391302202","onSale"]}'

1. **purchaseProperty**

Added one more user by following the first three steps:

Name: Upgrad

aadhar: 1120012021000

Upgradcoins balance: 500

The final command: peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c'{"Args":["org.property-registration-network.regnet.users:purchaseProperty","100","Upgrad","112001202100"]}'