/\*\*\*\*\*\*Eco blockchain Requirement\*\*\*\*\*\*/

1- Multiple banks (Bank-1, Bank-2, Bank-3 etc..) have registered on InfrasoftTech eCO Blockchain

2- “Customer A” has on-boarded eCO with “Bank-1”

3- “Customer A” now wants to open an account with “Bank-2”

4- Through eCO APP, “Customer A” provides consent to share personal data with “Bank-2”

5- Blockchain solution generates access key for sharing customer A's details

6- Blockchain solution shares customer-A's public key with “Bank-2” on Blockchain network

7- Blockchain solution publishes customer-A's data on Blockchain network

8- “Bank-2” accesses Customer-A's data from Blockchain network using provided key of “Customer-A”

-------------------Hyperledger fabric implementation -----------------

1. setup network of Banks

first start with fixed number of Bank like 3/4 banks(each bank contribute nodes, minimum one peer/node will be required ). Than generate all required certificate for all party line banks, peers.(certificate contain public key,private key, ca certificate,tls ,msp).

Later we can add new banks to existing ledger.

2. create channel and all Banks should join that channel.

3. smart contract( go lang) contain business logic/rules to create or on board new Customer and query record of particular Customer.

4. Need to install and Instantiate smart contract on all nodes.

5. now we can start interacting with ledger.

6.1 create new Customer : first configure env variable for peer1 of Bank1.

So peer1 of bank1 create Customer A in blockchain (means on-boarded Customer A)

and generate account for Customer A.

After this tranaction all details of Customer A stored on Ledger and this ledger is accessible by all nodes(from banks) in network because they all joined the channel earlier.

7. configure env variable for peer2 of bank2 .

now Peer1 of bank2 want to create Same Customer A which have account in Bank1.(or want to on board same Customer A).

Peer1 of bank2 fetch details of Customer A from Leder by using its certificates ()

now Peer1 of bank2 run query and fetch data/record of Customer A(which is already there in ledger) and Create Customer A. Generate new account for Customer A.