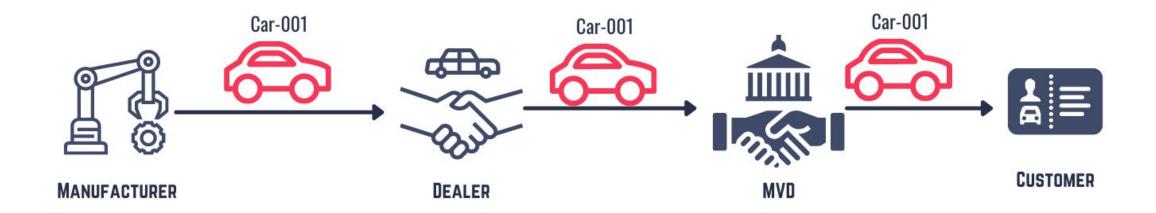
Automobile Use-case

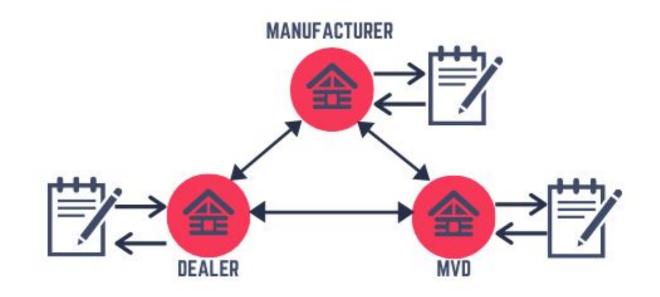


Use Case - Automobile network





Implement DLT - Blockchain





Why Hyperledger Fabric?

- Hyperledger Fabric is a Permissioned distributed ledger technology.
- Every business have their own trade secrets and other confidential information.
 They might not want to disclose to the other businesses in the network.
- Hence, Fabric allows us to use the concept of Channels here.
- There is another powerful concept called Private Data Collections(PDC).
- The shared ledger in Hyperledger Fabric offers two promising components:
 - World State
 - Transaction Log



Understanding the Business Logic

- Create a car by the Manufacturer.
- Create an order request by the Dealer.
- Match the dealer's order with the appropriate car in the manufacturer's inventory.
- MVD assigns the car to an end-user by giving it a number.



Network participants







MVD



DEALER

Minifabric



Introduction to Minifabric

- Minifabric is a tool developed by Hyperledger Labs in order to give Hyperledger
 Fabric DEVELOPER to experience the full capabilities of Hyperledger Fabric.
- A developer does not need the Admin side of Hyperledger Fabric to use Minifabric.
- It is completely Developer Friendly tool where they can leverage network features
 with simple commands and single file called as spec.yaml
- Github repo : https://github.com/hyperledger-labs/minifabric



spec.yaml

```
fabric:
  cas:
  - "cal.org0.example.com"
  "cal.orgl.example.com"
  peers:
  - "peerl.org0.example.com"
  - "peer2.org0.example.com"
  - "peerl.orgl.example.com"
  - "peer2.org1.example.com"
  orderers:
  - "orderer1.example.com"
  - "orderer2.example.com"
  - "orderer3.example.com"
  settings:
    ca:
      FABRIC LOGGING SPEC: DEBUG
    peer:
      FABRIC LOGGING SPEC: DEBUG
    orderer:
      FABRIC LOGGING SPEC: DEBUG
```



Commands

- Start the network
 minifab netup -s couchdb -e true -i 2.4.8 -o org1.example.com
- Create the channel
 minifab create -c mychannel
- Join the peers to the channel minifab join -c mychannel
- Update the Anchor peer for the organisations minifab anchorupdate
- Generate profiles minifab profilegen
- Tear down the network and cleanup everything minifab cleanup
- Tear down the network and restart it minifab down
 minifab restart



THANK YOU

