Shopping mall with Hyperledger Fabric

TWTJ

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https://github.com/TWTJ/project

Members



Kim Yoonji

*Front-end

*Server



Jeon Sangwook

*Server

*DB



Lee Yujin

*Fabric Network 구축

*Fabric Network 관리



Lee Dongwook

*Fabric Network 구축

*Fabric Chaincode 관리

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1. What?

- What is our project?

"온라인에서의 모든 행위는 우리의 재산입니다."

1. "TWTJ" 쇼핑몰

- 2. Hyperledger Fabric (BlockChain) 네트워크
 - 고객들의 정보 (나이, 성별, 결혼여부 등)
 - 고객들의 구매내역 (상품정보)

2. Development environment











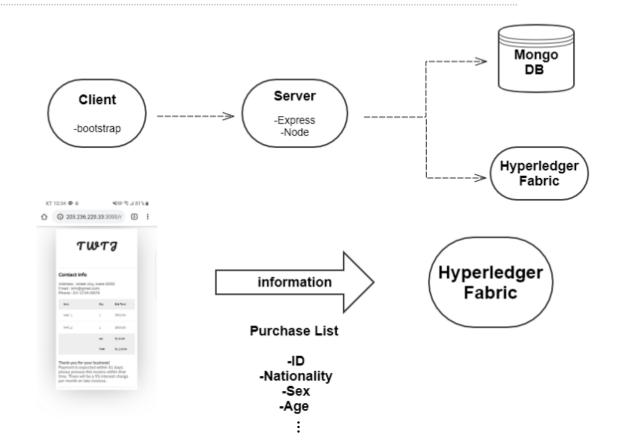




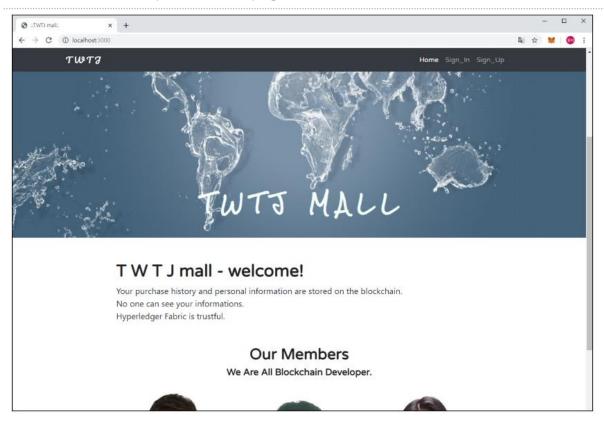




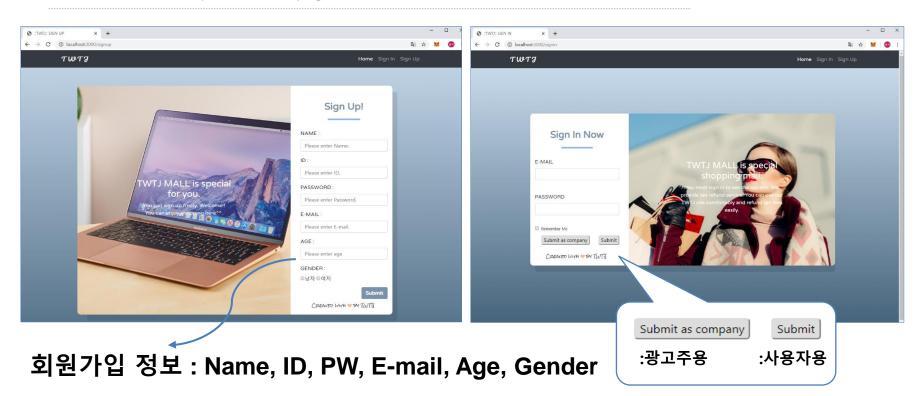
2. Development environment



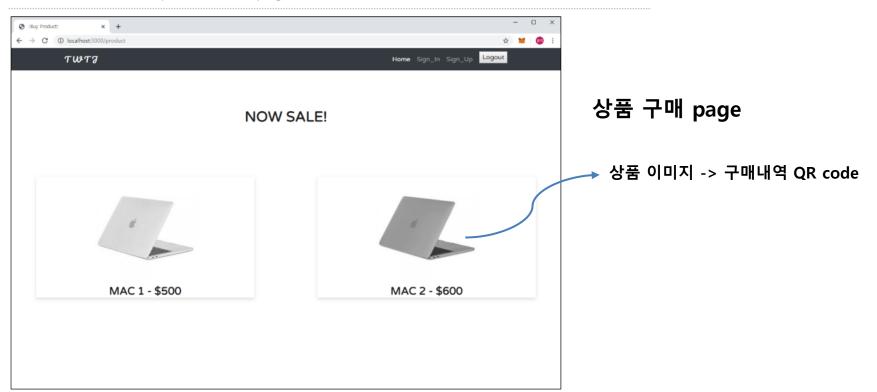
3. Details



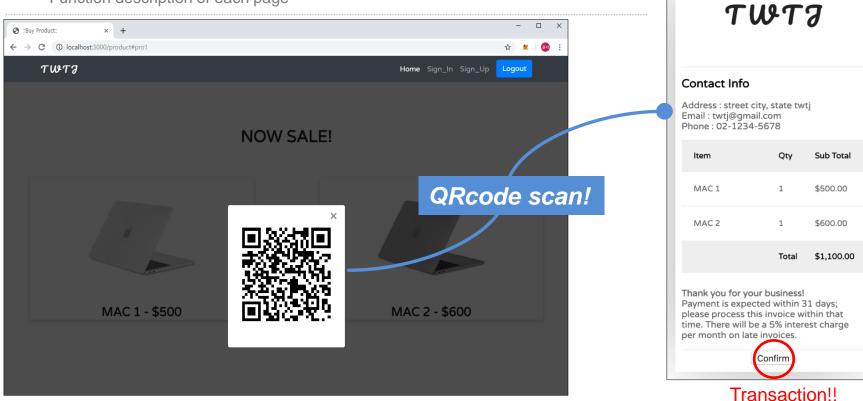
3. Details



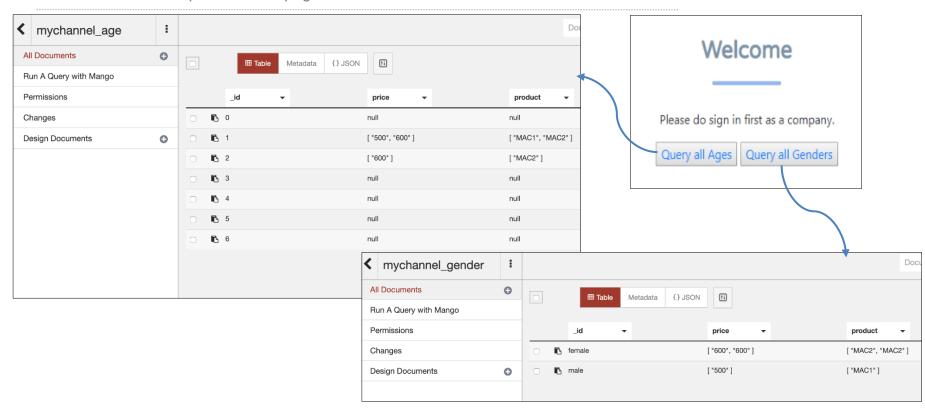
3. Details



3. Details



3. Details



3. Details

- Function description of each page

배포된 Chaincode

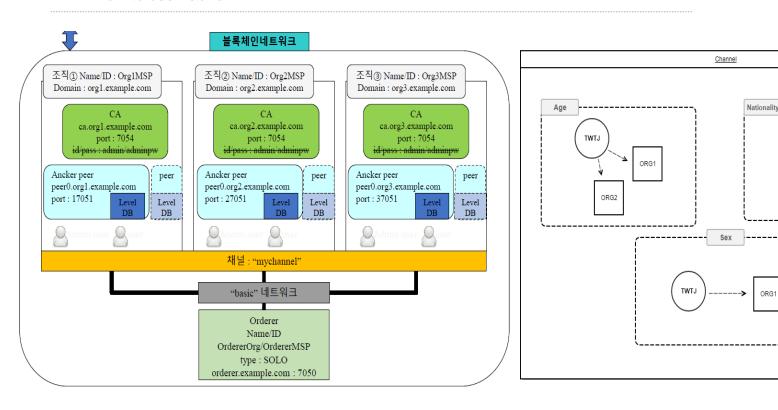
```
admin@adminui-MacBook-Pro:~/Documents/GitHub/TWJ$ docker exec cli peer chaincode list --installed
Get installed chaincodes on peer:
Name: age, Version: 1.0, Path: github.com/age/go, Id: 8fd0629de7d3b3d626f3a807fcd5917ea29327a2186e8b6e113cdc3555e223cd
Name: gender, Version: 1.0, Path: github.com/gender/go, Id: 238aa849c7db8b10859979780e91ca004cace2f8bee85fd056131108453b1790
Name: twtj, Version: 1.0, Path: github.com/twtj/go, Id: 1c4949c59bf5422a66b26b82a1a5ed5ce0ec002ca4383e2f909cf8f09f0d78cf
```

생성된 Block

```
[mychannel] Committed block [0] with 1 transaction(s) in 54ms (state_validation=0ms block_and_pvtdata_commit=6ms state_commit=44ms) commitHash=[]
                                                                                                                                            [mychannel] Received block [1] from buffer
                                                                                                                                            [mychannel] Committed block [1] with 1 transaction(s) in 18767ms (state_validation=6ms block_and_pvtdata_commit=7ms state_commit=18751ms) commitHash=[65d51c6b6f786280e2d
                           39:22.177 UTC [gossip.privdata] StoreBlock -> INFO 065 [mychannel] Received block [3] from buffer
                                                                                             /ithPytData -> INFO 86d [mychannel] Committed block [3] with 1 transaction(s) in 18774ms (state_validation=1ms block_and_pytdata_commit=6ms state_commit=18764ms) commitHash=[fde9152a7b30480580f
                                       .836 UTC [gossip.privdsts] StoreBlock -> 1NFO 86e [mychannel] Received block (4) from buffer
.873 UTC [kvldgdgr] Committylinbv1otata -> 1NFO 972 [mychannel] Committed block (4) from buffer
.873 UTC [kvldgdgr] Committylinbv1otata -> 1NFO 972 [mychannel] Committed block [4] from buffer
                                   53.188 UTC [gossip.privdata] StoreBlock -> INFO 875 [mychannel] Received block [5] from buffer
                                                                                  ommitWithPvtData -> INFO 078 [mychannel] Committed block [5] with 1 transaction(s) in 53ms (state_validation=2ms block_and_pvtdata_commit=7ms state_commit=40ms) commitHash=[2f7d881d14e6b7878b763cee6
                                       .625 UTC [gossip.privdata] StoreBlock -> INFO 086 [mychannel] Received block [7] from buffer
                                                                                   mmitWithPvtData -> INFO 88e [mychannel] Committed block [8] with 1 transaction(s) in 26ms (state_validation=7ms block_and_pvtdata_commit=7ms state_commit=9ms) commitHash=[10764a1974c98b138e3507b11d
                                       .233 UTC [sqssip.pricetals] StoreBlock -> INFO 896 [mychannel] Received block (9) from buffer as the store of the store of
2894999c4808efb4ef9b24c87ad3f7e2e10c4fb71
                                       .358 UTC [gossip.privdata] StoreBlock -> INFO 89c [mychannel] Received block [10] from buffer
                                                                                        itwithPvtData -> INFO 09e [mychannel] Committed block [10] with 1 transaction(s) in 36ms (state_validation=11ms block_and_pvtdata_commit=7ms state_commit=15ms) commitHash=[6256613ad4906c1edec0625]
                                       .448 UTC [gossip.privdata] StoreBlock -> INFO 8a2 [mychannel] Received block [11] from buffer
                                                                                      mitwithPvtData -> INFO 084 [mychannel] Committed block [11] with 1 transaction(s) in 25ms (state_validation=2ms block_and_pvtdata_commit=7ms state_commit=12ms) commitHash=[4c7c4e7de69ad3ce170c0c0f
                                                                                   mmitWithPvtData -> INFO 8as [mychannel] Committed block [12] with 1 transaction(s) in 50ms (state_validation=10ms block_and_pvtdata_commit=6ms state_commit=30ms) commitHash=[e9576d8b06fcf22bbf28c79
                                      .321 UTC [gossip.privdata] StoreBlock -> INFO 0b2 [mychannel] Received block [13] from buffer
                                                                                        itWithPvtData -> INFO 9b4 [mychannel] Committed block [13] with 1 transaction(s) in 32ms (state_validation=12ms block_and_pvtdata_commit=7ms state_commit=10ms) commitHash=[b290615eb537bc4cc1a5148
                          :48:56.396 UTC [gossip.privdata] StoreBlock -> INFO 0b8 [mychannel] Received block [14] from buffer
                                                                                        itWithPvtData -> INFO Sba [mychannel] Committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=10ms) committed block [14] with 1 transaction(s) in 26ms (state_validation=5ms block_and_pvtdata_commit=7ms state_commit=7ms state_commit=7ms
dd29261f542e5c863196fdb7f27f997c58ba2451]
```

4. How?

- How to use Fabric?



ORG1

ORG2

TWTJ

5. Why?

- Why use Fabric?

Private

Trust

Benefit

Q & A Thank You