

Practical 8

Aim: Use block chain to track fitness club rewards Build a web app that uses Hyperledger Fabric to track and trace member rewards

Theory:

This is a sample web application that uses a Hyperledger Fabric blockchain to track and trace fitness rewards.

One of the biggest challenges Fitness Clubs face is maintaining members. It is always cheaper to keep a member than to attract new members. To retain members, some clubs will offer loyalty programs, but oftentimes, those are ineffective because they may provide future free months or potentially offer a discount to friends and family. Sometimes, the program only rewards members when they refer friends to the club.

With the Fitcoin app, a Fitness Club can add new members. For active members, you can simulate those members receiving rewards points, redeeming rewards points, and viewing their rewards points history. Clubs can also deactivate members to simulate members cancelling their memberships, something we hope never happens.

Steps:

1. Install Hyperledger Fabric and Composer.
2. Build and Deploy the Fitcoin Blockchain Network.
3. Build and run the Fitcoin Angular Web App.

Note:

If you're running on Ubuntu, you can download the prerequisites using the following commands:

```
curl -O
https://hyperledger.github.io/composer/latest/prereqs-ubuntu.sh
chmod u+x prereqs-ubuntu.sh
```

Next run the script - as this briefly uses sudo during its execution, you will be prompted for your

password.

```
./prereqs-ubuntu.sh
```