Week 2 Report

Subject: Fabric Experimentation and Learning Environment (FELE) January 23rd to January 29th weekly report

Authors: Sooraj Sivadasan Nair, Preethi Vuchuru, Thomas Pulickal Joseph

Body:
The 2nd week started with an internal team meeting. Everyone shared their knowledge and experience about blockchain, and the technologies used for the application. Everyone was asked to study about Hyperledger fabric and its basic concepts. This week everyone was able to install and successfully run the fele cli and set up couch dB on their local machines. The team was also able to set up a Hyperledger fabric test network on their machines for analyzing the fabric framework. This helped the team get familiarized with concepts of Hyperledger Fabric to get started. A public GitHub project was also set up, and the team members were added as collaborators. The team was into groups and the technical and non-technical tasks were divided among the team members.

Accomplished Tasks:
1. Setup the fabric test network for all members
2. Setup the fele application along with couch dB that allows you to set up many fele networks, to simulate many Fabric networks.
3. Initial questions regarding the project were discussed with the RA as they started the project.
4. Learning the basic concepts of Hyperledger fabric network.
5. Collecting resources for the team website.
6. Received the FELE documentation and architecture from Dr. Yue.
7. A public github repository was set up [here](). The team decided to follow a branch based development, where each team member gets his/her own branch for development and once done will raise a pull-request to the master branch for code review.
8. Divided the technical tasks among the team members but team members are flexible to contribute to any task they want.
    a. CLI functionalities – Thomas Pulickal Joseph, Shiva Phaneendra Reddy Medapati
    b. Restful API services – Ramachandra Petla, Sesha Kumar Reddy Nallamilli
    c. JSON schema design and implementation, Smart Contract & localOrg API – Preethi Vuchuru, Sooraj Sivadasan Nair. You probably may want to design and test JSON first.
9. Divided the non-technical tasks among the team members
    a. Minutes of Meeting - Ramachandra Petla, Sesha Kumar Reddy Nallamilli
    b. Weekly Reports - Sooraj Sivadasan Nair, Thomas Pulickal Joseph
    c. Agenda - Shiva Phaneendra Reddy Medapati

      d. Project Management, Scheduling - Preethi Vuchuru

Planned Tasks:

1. Building project website
2. Understand and refine the updated Fele Architecture.
3. To research about network, channel creation and create a network, channel JSON that has information that a network, channel must have.
4. To set up a postman to test the restful endpoints and learn about swagger for Restful API documentation.
5. To implement network, channel functionalities in both CLI, Restful API if the design is approved.
6. To add logs to log files while developing functionalities using Winston node js package.
7. To consider writing a script for testing the cli and it can be invoked with a run script command.