

# CODE PHANTOMS - MENTOR MEETING (WEEKLY)

## Attendees:

**Mentors:** Dr. Sha, Dr. Yue, (RA Shanmuk)

**Team members:** Kodanda Ramu, Puneeth Desineni, Nithya Chanda, Nanda Vardhini, Sai Shravanth

**Date:** 09/01/2021

**Time:** 11:00 am – 12:00 pm

**Location:** Zoom meeting

## Agenda:

Introductory meeting.

## Minutes:

### Introduction:

The team has introduced themselves and Dr. Yue gave a brief description of the project.

### Environment Setup:

Team is working to set up the Hyperledger Fabric v2.3 installation on their local systems. Team is working on it and fixing some issues faced on the way.

### Requirement Gathering:

Dr. Yue and Dr. Sha has suggested us to gather all necessary requirements for the project and brush up the necessary skills.

### Project Discussion:

Dr. Yue, Dr. Sha and Team discussed how the project shape has changed from authenticating from a shared file to moving all the access details to Postgres. Discussed about the implement of authentication using React.js and Express.js API's which fetch the records from Postgres database and authenticates users to do CRUD operations in blockchain. Implementation of wallets for use by the web server to submit the transaction to the smart contracts.

### To-do Tasks:

1. Install Fabric and Fabric Samples and ensure that every member has a development platform ready.
2. Install VS Code and add IBM Blockchain extension to it.
3. Gather existing MBSE prototype and the work of the previous team. Your team is a continuation work on the previous team.

4. Gather Mockup screens from Shanmuk and work on it.
5. Study the article of using Postgres to store blockchain credentials. Repeat the experiment so you can later extend on it.
6. Investigate the use of Postgres (or MySQL etc) to store local organization's credentials. These local organization credentials are used to authenticate the users using the Web clients your team will develop.
7. Identify the application requirements based on examining previous app and discussion with the mentors.

### Learnings:

Dr. Yue has suggested to look at the below topics

- Fabric Contract API and Shim API. In particular, the Node.JS version as your team will like use Node,Js: <https://hyperledger.github.io/fabric-sdk-node/release-2.3/index.html>. Your team probably will use fabric-network API.
- You may end up using Typescript instead of JavaScript
- Npm: to manage Node.JS modules
- React.js, Node.js, Express.js
- Postgres

### Queries clarification:

Clarified all the questions that team has regarding the requirements, functionalities, project related installations etc.