**Project Plan (Phase 3)**

**Udit Singhania**

**Tech Stack (Development Phase):**

**FrontEnd**: Angular

**MiddleWare Services**: SpringBoot Restful & MicroServices, JPARepository

**Database**: MySQL

Database Documents: Company, Sector, IPO, Stock Exchange, Stock

**Identified Microservices and APIs:**

**Company Service**: getCompanies,getCompanyById, getCompanyDetails, getCompanyStockPrice, addCompany, deleteCompany, getCompanyIpoDetails,

**Sector Service**: getSectors, getSectorById, getCompanies, addSector

**Stock Exchange Service**: getStockExchanges, getStockExchangeById, getCompanies,

**Stock Price Service**: getStockPrices, getStockPriceById, compareCompany, compareSector , updateStockPrice etc

**User Service (Zuul Gateway Service)**: userLogin, userSignUp, updateUser etc.

**Admin Service**: addStockExchange, updateStockExchange, removeStockExchange, addCompany, updateCompany, removeCompany, addSector, updateSector, removeSector, importData.

**Eureka Discovery Service**

**Procedure:**

* Analyze the SRS
* Create DB connection and Entities.
* Mapping many-one, one-one and other relationships in DB
* Maintaining Services and spring boot microservices
* Making use of Zuul gateway and eureka server to handle the microservices
* Creating Authentication using JWT
* Start coding the Frontend part (Angular)
* Mapping Angular and the backend
* Dockerization and Testing phase
* Using Jenkins and CI/CD pipeline