1. Introduction

The objective of Capstone Project Exercise is to give you a chance to apply some of the concepts learnt during the 9 weeks of online classroom training programs.

1. How will it work?
   1. You will be a part of team comprising of approx. 4-5 members.
   2. Each team will be assigned a small project and is expected to complete in about 4.5 days. Additional half day will be reserved for presentation and project execution demo.
2. What is expected?
   1. Develop a working application for the project allocated to you, and deploy it on local host.
   2. Define database structures needed and create appropriate database
   3. Develop & test UI using front end framework
   4. Develop & test backend classes, interfaces, services end-points
   5. Apply full stack development skills to “code and test”
   6. Understand concepts of deployment
3. Suggested Approach
   1. Go through the project specifications clear doubts
   2. Allocation of use cases & other tasks
   3. Prepare schedule
   4. Creation of github repository – ONE per group
4. What technology is to be used?

* Java / Eclipse IDE, Apache Tomcat server, JUNIT
* GitHub
* MYSQL / MYSQL Workbench
* HTML - Bootstrap
* UI –ReactJS , JEST
* Spring, Spring Boot
* Maven
* Jenkins

1. Evaluation

Working Demo of the application

Individual Evaluation

* Knowledge & Application of React / JSX / ES6
* Knowledge & Application of Spring / Spring Boot, API Integration Layer
* Knowledge & Application of Unit Testing (JEST & JUNIT)
* Knowledge & Application of DevOps – Pipelines, Deployment, GitHub
* Knowledge & Application of Debugging/Logging
* Knowledge & Application of Code Review / Tools / Process
* Overall understanding of the project and 9 weeks of learning