**Project-1: CSPlanner and CSAdmin Tool**

Develop a tool for two different types of user with different access and contents. User should be able to login to specific UI according to his role. For example, if the user is CSPLanner then he/she should be able to login to CSPlanner page only.

1. Users
   1. **CSPlanner**
      1. CSPlanner should be able to create multiple programs on the web page with pre-defined template stored in database. These programs should also be stored in database.
      2. Template is nothing but a list of following activities:
         1. Create CS Requirement
         2. Define support criteria
         3. Create Qualification requirement
         4. Training needs
      3. Above template should be able to be pulled on the screen and CSPlanner should be able to add due date on the screen for these activities.
   2. **CSAdmin:**

CSAdmin should be able to view the list of created programs. CSAdmin should also be able to approve or reject the program.

1. Screens:
   1. Login UI: Common login screen for both users. Input for username and password. After login a User will be able to see a specific UI based on their role. Also possible is to add a role-based login where a radio box can be made available to select the user type (planner/admin) on login UI itself.
   2. Planner UI: User upon login will see all the programs created so far. CSPlanner can create new programs and update the existing program.
   3. Create program UI: User will create the program based on the Templates stored in database. These templates will have hardcoded data stored in database. Upon saving the program it will be persisted in DB and will be displayed on Planner UI.
   4. Admin UI: Once logged in Admin UI will display all the programs created. Admin can then approve and reject the programs.
2. Upon Approval/Rejection an email message is triggered to the User specifying the approval state Approved/Rejected.

**Technology Requirements:**

* **Frontend:**

*Angular2+*

Expectation would be to create a one-page UI utilizing Angular Framework and use of unit testing frameworks to showcase TDD approach. Use Angular Routing for navigation between components.

* **Backend:**

*Spring Boot, Restful Webservice, Junit*

Backend service is a Restful Webservice designed in Spring Boot Framework.

Expectation is to utilize Junit Framework to demonstrate Test Driven Development approach for developing all the components.

* **Database:** PostgreSQL/any other