# *Deployment Steps*

The assignment provided has been completed with UI in Angular 8 and Rest API in Spring.

Two separate projects have been created for UI and service layer.

1. **Prerequisites:**

   ✓ Angular 8 CLI should be installed on the system.
   ✓ Oracle DB Instance should be available on the system
   ✓ Tomcat Server 8.5 or above to be configured in Eclipse for deploying the application
   ✓ Eclipse 2018-09 Version and above
   ✓ JDK 1.8

2. **Steps to Deploy:**

   ✓ **SpringRestHibernate**: SpringRestHibernate is the eclipse project for Spring Rest API.
      a. Use Import from Existing project in Eclipse, this will be imported as a Dynamic Web Project
      b. Make Configuration changes as below: Update the Database configuration in the file src\main\webapp\WEB-INF\SpringRestHib-servlet.xml as per below:
         a. Data Source Configurations
            i. Driver Class Name
            ii. URL
            iii. User Name
            iv. Password
         b. JPA Properties
            i. hibernate.dialect
            ii. hibernate.default_schema
      c. Deploy this project on the server configured in Eclipse.

   ✓ **employee-client**: This is the angular 8 project handling the UI of the application.
      a. Download the employee-client folder
      b. Go to Angular CLI up to the above folder location
      c. Run "npm install" (This will install all modules listed as dependencies in package.json)
      d. Once all the modules have been downloaded. Update the URL of the Rest APIs in the file /src/app.config.json
      e. Run "ng serve"
      f. Angular 8 application will be available at http://localhost:4200 (by default)

Then both the modules are available for deployment and testing

3. **Validations Covered:**
      a. Client Side (Angular)
         i. Register Employee
            1. First Name is mandatory
            2. Last Name is mandatory
            3. Job Title is mandatory

        4. Start Date is Mandatory
        5. End Date is mandatory
        6. Start Date and End Date can have date inputted in the range of 1 Jan 1970 to 31$^{st}$ Dec 2099
        7. Max Length for First Name and Last name is 35
        8. Max length for Job Title is 50

    ii. Search Employee
        1. Name is mandatory
        2. Start Date is Mandatory
        3. End Date is mandatory

    iii. Spring Rest API Url is being read from a JSON file,so that it can be changes without changing the code.

b. Server Side(Rest API)
    i. Register Employee
        1. First Name is mandatory
        2. Last Name is mandatory
        3. Job Title is mandatory
        4. Start Date is Mandatory
        5. End Date is mandatory
        6. Start Date and End Date to have date pattern as yyyy-MM-dd
        7. Start Date cannot be later that End Date
        8. Max Length for First Name and Last name is 35
        9. Max length for Job Title is 50

    ii. Search Employee
        1. Name is Mandatory
        2. Start Date is Mandatory
        3. End Date is Mandatory