Hackathon – Angular, Spring Boot

Angular & Spring Framework (Spring Boot, JPA, MySQL, NoSQL)

In this case study you will implement an application to design a payment wallet platform which allows users for Spot Cash in Forex of their choice of location for purchase / payments for certain local services such as Medicines, Cinema, Malls, and Food & Beverages and/or for self and spouse. This application should allow the users to design the front end using Angular. The application will be a Spring Boot web application, with an MySQL, NoSQL database to store all the data received from the front- end user form and any back-end data that is required to be stored.

Angular

Register & Login: Users should be able to register and login to the system.

Users should register

- While registering, customer need to provide the following information (you should design an Angular component for accepting the below details)
- You can use Angular material / Angular forms.

    a) Email-id – (@Id)
    b) Name
    c) Address
    d) Account no.
    e) Mobile no.
    f) Password

You should implement the validation for the above fields in which email id should accept only valid email id format (xxx@xx.com), mobile number should be 10 digits, name can't be empty, password can't be empty.

- Registered details should be stored in a db.json when the register data is submitted.

- You should implement the Login

    Design a login using Angular material / Angular forms

a) Email-id
  b) Password

Validate the data whether it is existing in the db.json and on the successful load a Dashboard in which you will display a "welcome message for the user"

- Implement test cases for the registration using Jasmine

Spring Boot

Now we will convert the data which is stored in db.json to the database (MySQL).

- Once the registration data is filled and on the submission the data should be stored in registration table.

- You will implement the registration using spring boot using rest api

- Write the mockito test cases for the registration

- Once the login details are entered the data should be validated from the registration table whether the user is existing or not.

  On the successful login it should take into the dashboard.

Tools and Technologies to be used

1. Front End : Angular Framework with Bootstrap.

2. Back End : Spring Boot with microservices architecture.

3. Database : MySQL Database.