HomeSphere(service application)

1. Functional requirements

* Admins can add, edit, and delete (CRUD) services from the system.
* Admins can approve users into the system.
* Users can create two types of accounts( service provider or service user). -email verification
* Users can login into the app.
* Users can update their profile information.
* Service users can view available services, their details, and the hourly price.
* Service users can book a service for a specified period.
* The system should send emails to users to confirm reservations and notify them of upcoming services.
* The application should use a scheduler to mark booked services as unavailable during the booking period.
* Implement a rating system for service providers, based on service users feedback.
* Allow users to select different cities and to specify there address for their needed service.
* Allow users to filter services by various criteria, such as lowest price and higher rating of an service provider.
* Implement a feature to suggest related services based on a service users search history preferences.

2.Technical requirements

Must have:

* maven project
* project is on github
* mysql database with all relationships between tables (one to one, one to many, many to many)
* must include: enum, datetime/date, oop concepts etc (as many things you learnt during course)

**Nota 6:**

- application that connects to db and performs CRUD operations on tables

- use JDBC/Hibernate

**Nota 7:**

- spring boot application

- REST controllers

- spring data

**Nota 8:**

- user can login into the system (basic authentication with spring security)

- application also includes user management functionality (admin can CRUD on anything, simple users can change profile info)

**Nota 9:**

- scheduler

- swagger

- send email functionality

- custom validators

**Nota 10:**

- spring security (authentication&authorization with bearer token)

- functional programming ??

- integration tests with h2