



# HACETTEPE UNIVERSITY

## Web Services Laboratory Assignment Report

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**Report Subject:** Perform single page web application. Understand angular technology.

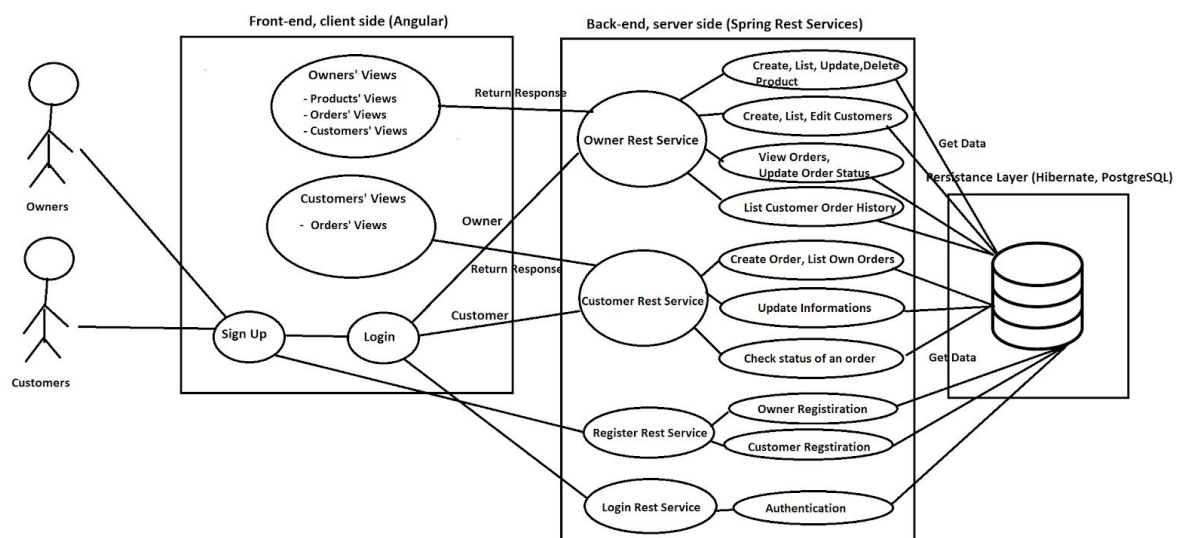
**Due date:** 23.05.2018

**Instructors:** TA Alaettin Uçan, TA Efsun Sezer

# INTRODUCTION

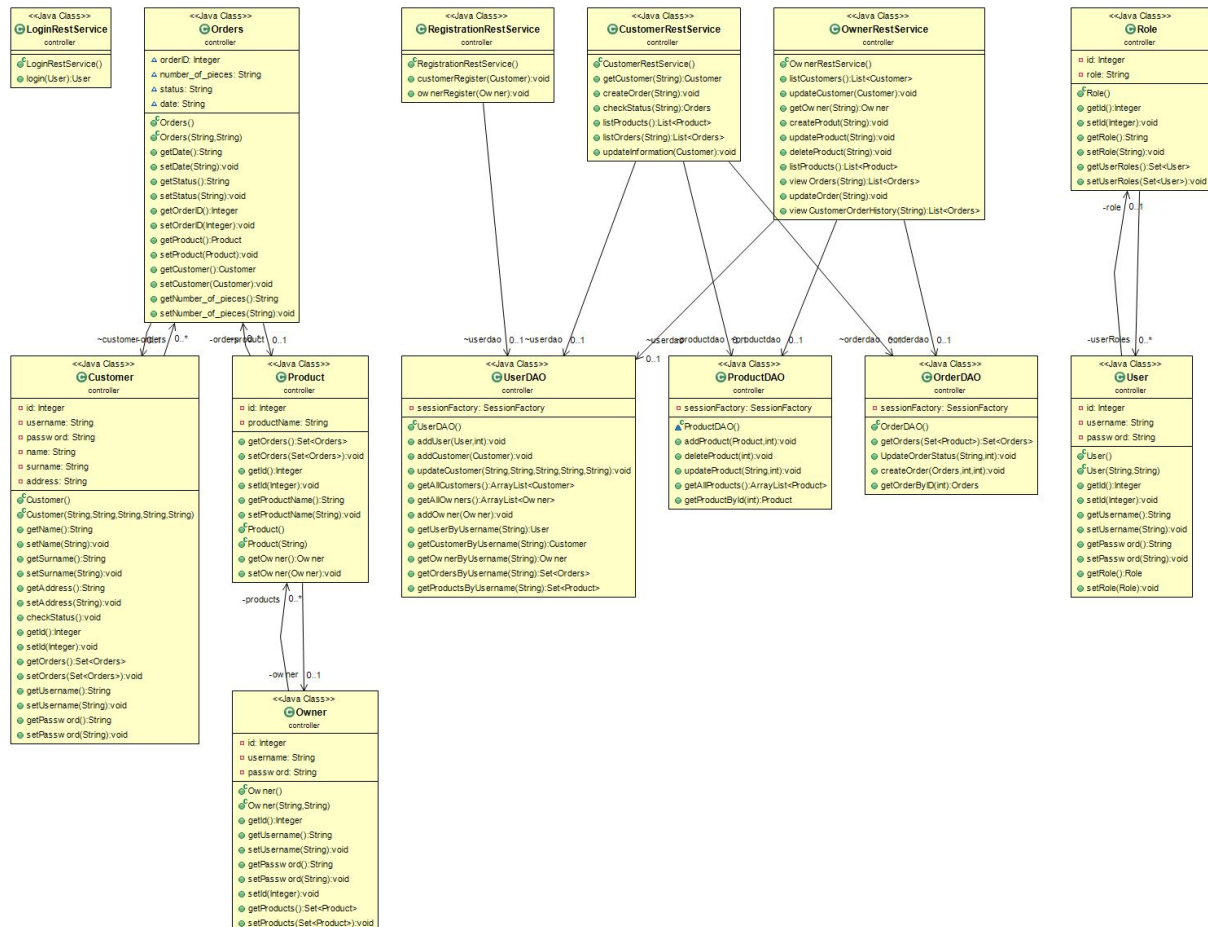
In this assignment, we developed a single page application with using Angular 5. Spring and Hibernate technologies are also used for back-end side. The client side will be based on Angular while Spring Rest Services will be the server side. The persistence layer provided by Hibernate and PostgreSQL database management system.

## Use Case Diagram



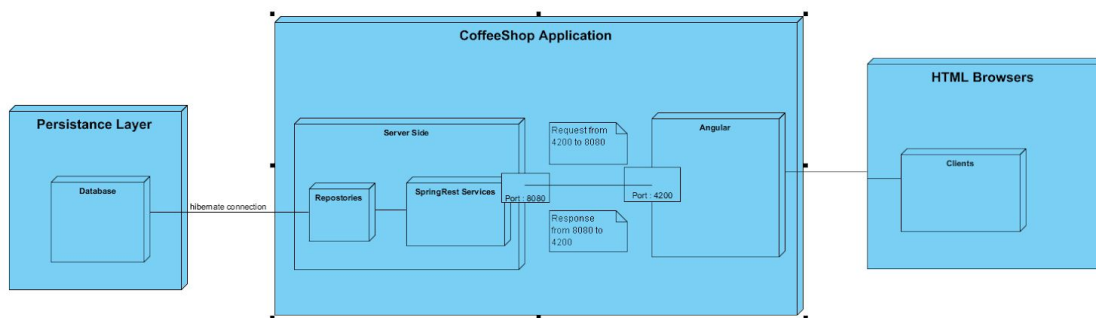
- Multiple user can register to the system.
- Only registered user can access to application.
- Application allowed multitype user registration.
- Every customer can create order, check status of an order and update her/him informations.
- Every owner can create, list, delete, update product also create, list and edit customers. View orders, list specific customer orders and update order status besides done by owners.
- Customers cannot access to owners part.

# Class Diagram



- Application starting with app.component.html.
- All routes keeps in app-routing.module.ts
- Module declarations, imported modules, provider services and bootstrap module keeps in app.module.ts.
- We have the proxy.config.json file for routing request from angular components to server side.
- We used spring rest services.We route the responses to angular through cross origin annotation.
- All databases operations done by repository classes through hibernate.
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## Deployment Diagram



- Application uses angular for front-end (client side), rest services for back-end (server side).
- Angular running on localhost port:4200.
- Rest services running on localhost port:8080.
- Clients reach the application via HTML browsers.

## References

- <https://stackoverflow.com/>
- Course slides
- <https://www.mkyong.com>
- <http://www.devglan.com/spring-boot/spring-boot-angular-example>
- <https://angular.io/tutorial>
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