

Technologies Used

For the development of backend, I have used following technologies

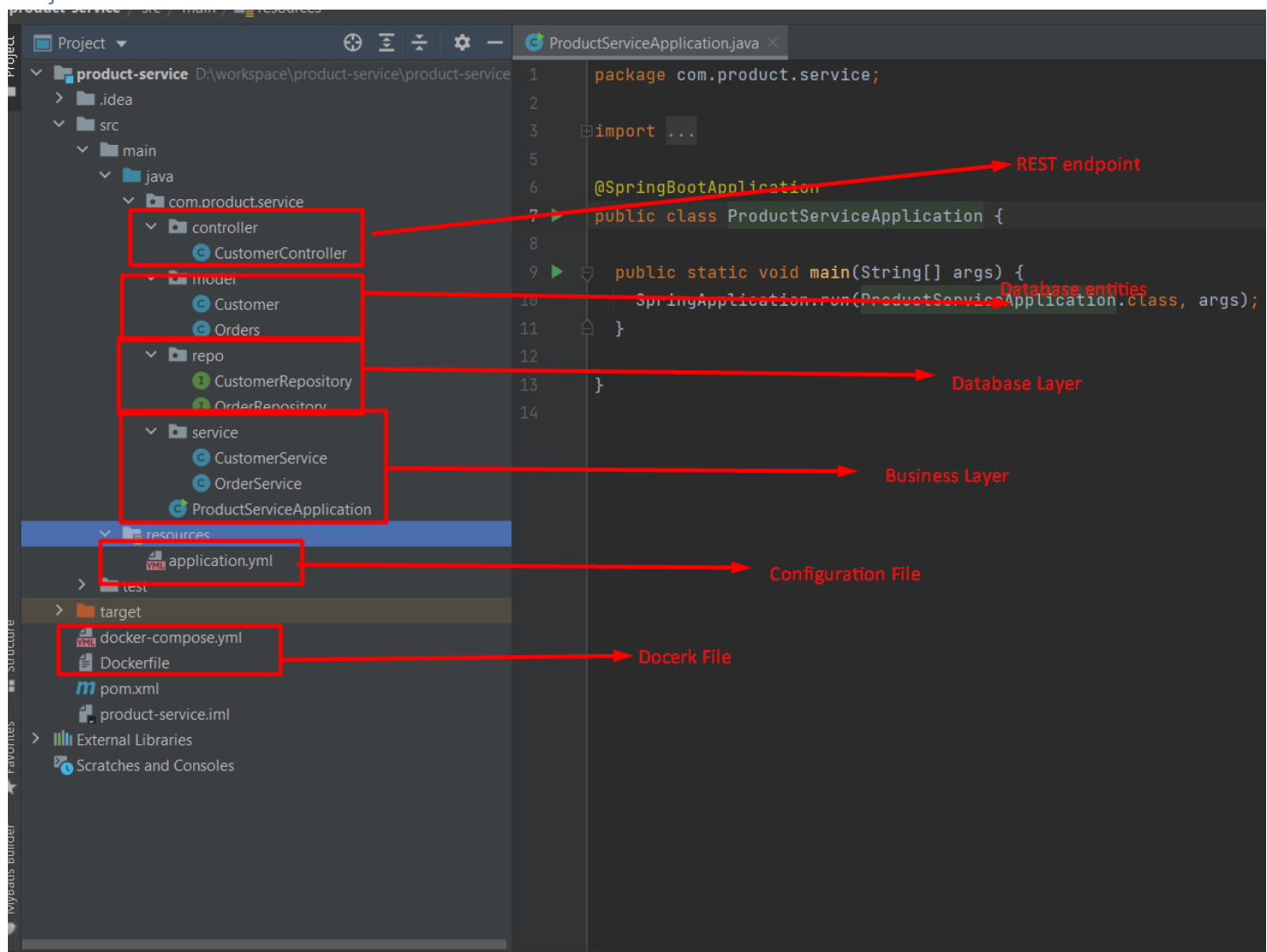
- Spring boot
- MySQL Database
- Docker

For the development of the front end (rest client), I have used following technologies

- HTML
- jQuery
- Bootstrap

Backend

Project Structure



Database Configurations

```
productServiceApplication.java × application.yml ×  
spring:  
  datasource:  
    url: jdbc:mariadb://localhost:3306/product-service?characterEncoding=UTF-8  
    username: root  
    password: root  
    driver-class-name: org.mariadb.jdbc.Driver  
jpa:  
  properties:  
    hibernate:  
      dialect: org.hibernate.dialect.MySQL5InnoDBDialect  
      format_sql: true  
  show-sql: false  
  hibernate:  
    ddl-auto: update
```

Postman Requests

Get Customer List

localhost:8080/customers Save

GET localhost:8080/customers Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (8) Test Results Status: 200 OK Time: 324 ms Size: 641 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "id": 1,
3    "firstName": "John",
4    "lastName": "Rambo",
5    "email": "john.rambo@gmail.com",
6    "address": "New York",
7    "telephone": "123456789"
8  },
9  {
10   "id": 2,
11   "firstName": "David",
12   "lastName": "Johnson",
13   "email": "david.johnson@gmail.com",
14   "address": "Washington DC",
15   "telephone": "223456789"
16 },
17 {
18   "id": 3,
19   "firstName": "Rager",
20   "lastName": "Rathore",
21   "email": "rager.rathore@gmail.com",
22   "address": "New York",
23   "telephone": "123456789"
24 }
```

Get Customer

localhost:8080/customers/1 Save

GET localhost:8080/customers/1 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (8) Test Results Status: 200 OK Time: 32 ms Size: 375 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "id": 1,
3    "firstName": "John",
4    "lastName": "Rambo",
5    "email": "john.rambo@gmail.com",
6    "address": "New York",
7    "telephone": "123456789"
8  }
```

Get Customer Orders

localhost:8080/customers/1/orders

Save Send

GET localhost:8080/customers/1/orders

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (8) Test Results

Save Response

Pretty Raw Preview Visualize JSON

```
1 [
2   {
3     "id": 4,
4     "date": "2021-12-01",
5     "payment": 2500.0,
6     "total": 2500.0,
7     "customer": {
8       "id": 1,
9       "firstName": "John",
10      "lastName": "Rambo",
11      "email": "john.rambo@gmail.com",
12      "address": "New York",
13      "telephone": "123456789"
14    }
15  },
16  {
17    "id": 5,
18    "date": "2021-11-01",
19    "payment": 2000.0,
20    "total": 2000.0,
21    "customer": {
22      "id": 1,
23      "firstName": "John",
24      "lastName": "Rambo",
25      "email": "john.rambo@gmail.com",
26      "address": "New York",
27      "telephone": "123456789"
28    }
29  }
30 ]
```

Get Order Details

localhost:8080/customers/1/orders/4

Save Send

GET localhost:8080/customers/1/orders/4

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (8) Test Results

Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 4,
3   "date": "2021-12-01",
4   "payment": 2500.0,
5   "total": 2500.0,
6   "customer": {
7     "id": 1,
8     "firstName": "John",
9     "lastName": "Rambo",
10    "email": "john.rambo@gmail.com",
11    "address": "New York",
12    "telephone": "123456789"
13  }
14 }
```

Rest Client

Customer List

index.html

File | D:/workspace/product-service/rest-client/index.html

Customers

First Name	Last Name	Email	Telephone	Address	
John	Rambo	john.rambo@gmail.com	123456789	New York	<div>View</div>
David	Johnson	david.johnson@gmail.com	223456789	Washington DC	<div>View</div>
Rager	Rathore	roger.rathore@gmail.com	323456789	New Jersey	<div>View</div>

View Customer Details

Customer Details

customer.html?id=1

File | D:/workspace/product-service/rest-client/customer.html?id=1

Customer Details

Name: John Rambo

Email: john.rambo@gmail.com

Address: New York

Telephone: 123456789

Orders

Order Date	Payment	Total Payment	Customer Orders
2021-12-01	2500	2500	<div>View</div> <div>View Order Details</div>
2021-11-01	2000	2000	<div>View</div>
2021-10-01	1500	1500	<div>View</div>

Order Details

orders.html?orderId=5&customerId=1

File | D:/workspace/product-service/rest-client/orders.html?orderId=5&customerId=1

Order Details

Date: 2021-11-01

Payment: 2000

Total: 2000