Technologies Used

For the development of backend, I have used following technologies
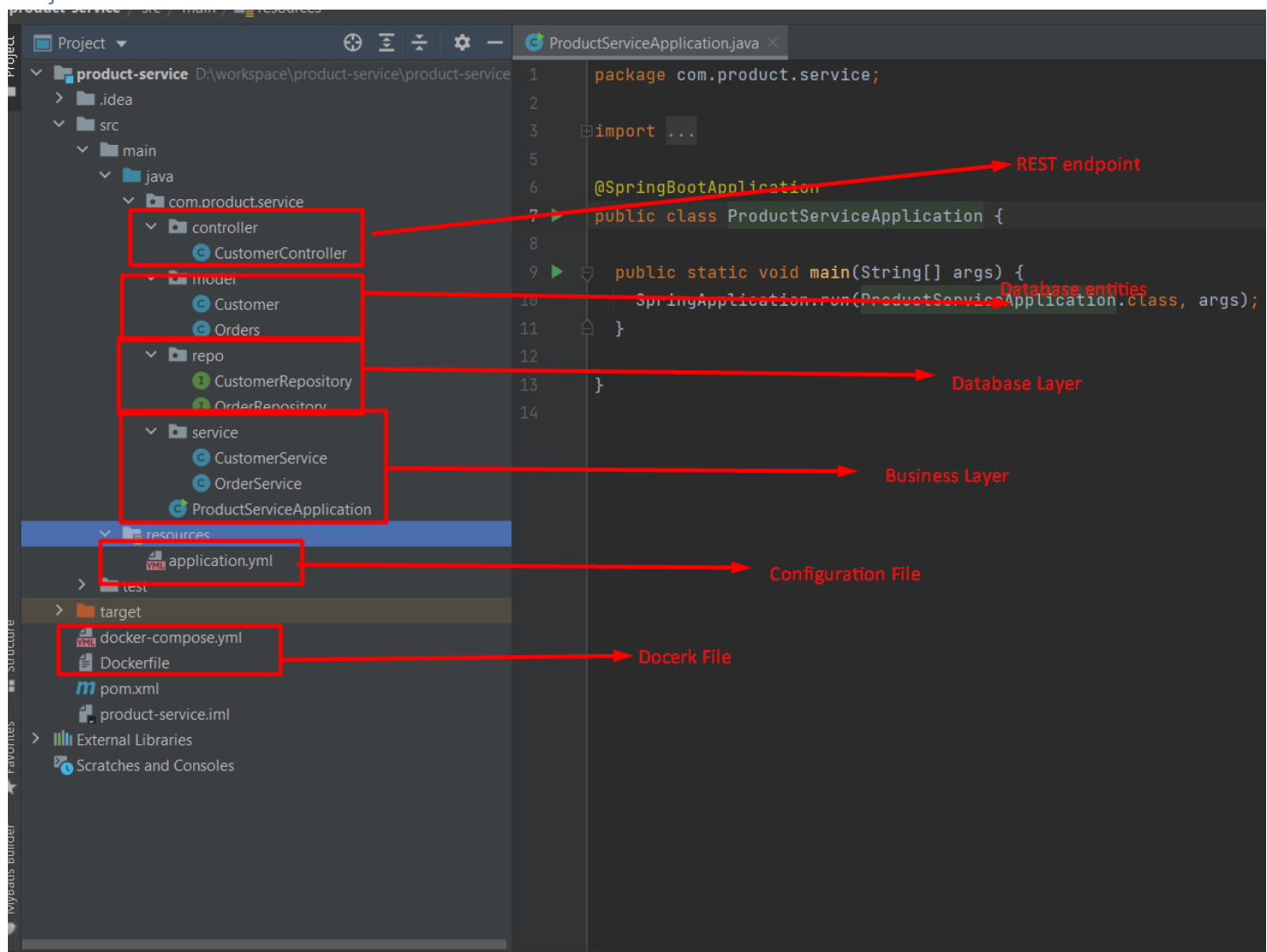
- Spring boot
- MySQL Database
- Docker

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

- HTML
- jQuery
- Bootstrap

Backend

Project Structure

Database Configurations

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

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

| GET | localhost:8080/customers/1/orders | Send |

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

Body   Cookies   Headers (8)   Test Results   Status: 200 OK   Time: 26 ms   Size: 839 B   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": {
```

Get Order Details

localhost:8080/customers/1/orders/4

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

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

Body   Cookies   Headers (8)   Test Results   Status: 200 OK   Time: 12 ms   Size: 447 B   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

Customer Details

Order Details