

E-Commerce Application – Backend

Frameworks used :

- Spring Boot (REST, JPA)
- Hibernate.

Database : MySQL

Entities :

- Customer
- Item
- Order
- Stock

NOTE : In the placeholder {} the value must bbe passed.

REST API – Customer (/customer)

- **Retrieving all Customer :**
 - API : <http://localhost:8080/customer>
 - METHOD : GET
 - Response Example :

```
[
  {
    "id": 1,
    "name": "SAVK",
    "address": "MyAddress",
    "contactinfo": "1234",
    "ssn": "777"
  },
  {
    "id": 2,
    "name": "Customer2",
    "address": "MyAddres2s",
    "contactinfo": "1234",
    "ssn": "127"
  }
]
```
- **Retrieving a specific Customer :**
 - API : <http://localhost:8080/customer/{id}>
 - METHOD : GET
 - Response Example :

```
{
  "id": 1,
  "name": "SAVK",
  "address": "MyAddress",
  "contactinfo": "1234",
  "ssn": "777"
}
```

```
}
```

- Creating a new Customer :
 - API : <http://localhost:8080/customer>
 - METHOD : POST
 - Request Body :

```
{  
    "name": "SAVK",  
    "address": "MyAddress",  
    "contactinfo": "1234",  
    "ssn": "777"  
}
```
- Updating a Customer ::
 - API : <http://localhost:8080/customer>
 - METHOD : PUT
 - Request Body :

```
{  
    "id": 1,  
    "name": "SAVK-Edit",  
    "address": "MyAddress",  
    "contactinfo": "1234",  
    "ssn": "777"  
}
```
- Deleting a Customer :
 - API : <http://localhost:8080/customer/{id}>
 - METHOD : DELETE

REST API – Items (/item)

- Retrieving all Items :
 - API : <http://localhost:8080/item>
 - METHOD : GET
 - Response Example :

```
[  
  {  
    "id": 1,  
    "name": "SAVK-1-djksnv",  
    "description": "SAVK-1-Edited",  
    "price": 1234  
  },  
  {  
    "id": 2,  
    "name": "New Item 2",  
    "description": "Desc 2",  
    "price": 50  
  }  
]
```

]

- Retrieving a specific Item :
 - API : <http://localhost:8080/item/{id}>
 - METHOD : GET
 - Response Example :

```
{
  "id": 2,
  "name": "New Item 2",
  "description": "Desc 2",
  "price": 50
}
```
- Creating a Item :
 - API : <http://localhost:8080/item>
 - METHOD : POST
 - Request Body :

```
{
  "name": "New Item",
  "description": "Description goes here",
  "price": 123
}
```
- Deleting a Item :
 - API : <http://localhost:8080/item/{id}>
 - METHOD : DELETE
- Updating an Item :
 - API : <http://localhost:8080/item>
 - METHOD : PUT
 - Request Body :

```
{
  "id": 2,
  "name": "New Item - Name edit",
  "description": "Desc 2 - edited",
  "price": 50
}
```
- Getting stock detail for an Item :
 - API : <http://localhost:8080/item/{itemId}/getStock>
 - METHOD : GET
 - Response Body :

```
{
  "id": 1,
  "item": {
    "id": 1,
    "name": "SAVK-1-djksnv",
    "description": "SAVK-1-Edited",
    "price": 1234
  },
  "available": 0
}
```

}

- Updating Stock for an Item :
 - API : <http://localhost:8080/item/1/updateStock?value=100>
 - METHOD : PUT
-

REST API – Order

- **Retrieving all Order :**
 - API : <http://localhost:8080/order>
 - METHOD : GET
 - Response Example :

```
[
  {
    "id": 1,
    "datetime": "2019-05-15T09:04:30.000+0000",
    "paymentmode": "",
    "total": 0,
    "orderEntries": [],
    "incart": true,
    "customer": {
      "id": 1,
      "name": "SAVK",
      "address": "MyAddress",
      "contactinfo": "1234",
      "ssn": "777"
    }
  }
]
```
- **Getting Order Details :**
 - API : <http://localhost:8080/order/{orderId}>
 - METHOD : GET
 - Response Example :

```
{
  "id": 1,
  "datetime": "2019-05-15T09:04:30.000+0000",
  "paymentmode": "",
  "total": 0,
  "orderEntries": [],
  "incart": true,
  "customer": {
    "id": 1,
    "name": "SAVK",
    "address": "MyAddress",
    "contactinfo": "1234",
```

```

        "ssn": "777"
    }
}

```

- Creating a new order for a Customer :

- API : <http://localhost:8080/order/createOrderForCustomer/{customerId}>
- METHOD : POST
- Response Example :

```

{
    "id": 1,
    "datetime": "2019-05-15T09:04:30.000+0000",
    "paymentmode": "",
    "total": 0,
    "orderEntries": [],
    "incart": true,
    "customer": {
        "id": 1,
        "name": "SAVK",
        "address": "MyAddress",
        "contactinfo": "1234",
        "ssn": "777"
    }
}

```

- Adding Items to an Order :

- API : <http://localhost:8080/order/1/addItemsToTheOrder?itemId={itemId}&quantity={qty}&customerId={custId}>
- METHOD : PUT
- Response :

```

{
    "id": 1,
    "datetime": "2019-05-15T09:04:30.000+0000",
    "paymentmode": "",
    "total": 0,
    "orderEntries": [
        {
            "id": 5,
            "order": null,
            "item": {
                "id": 1,
                "name": "SAVK-1-djksnv",
                "description": "SAVK-1-Edited",
                "price": 1234
            },
            "quantity": 10
        },
        {
            "id": 6,
            "order": null,
            "item": {
                "id": 2,

```

```

        "name": "New Item - Name edit",
        "description": "Desc 2 - edited",
        "price": 50
    },
    "quantity": 10
}
],
"incart": true,
"customer": {
    "id": 1,
    "name": "SAVK",
    "address": "MyAddress",
    "contactinfo": "1234",
    "ssn": "777"
}
}

```

- Checkout Order :

- API : <http://localhost:8080/order/{orderId}/checkout? paymentMode=online>
 - METHOD : PUT
 - **If there is out of stock then this error response is thrown :**

```

{
    "timestamp": "2019-05-15T10:41:44.142+0000",
    "status": 500,
    "error": "Internal Server Error",
    "message": "Out of stock for Item :: SAVK-1-djksnv",
    "path": "/order/1/checkout"
}

```
-