

Sporty Shoes

(Shoe Management Portal)

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## 1. Project and Developer Details

### Project Objective ->

- As a Full Stack Developer, complete the features of the Sporty Shoes E-commerce portal by planning the development and pushing the source code to the GitHub repository.

### Application Features ->

- After running of spring boot application, User/Admin will have to Authenticate (Sign In) before accessing any functionality.
- You have to Authenticate with user name and password.

#### A. If logged in as **User**. User can –

- Place Order
- Modify Order

#### B. If logged in as **Admin**. Admin can –

- Create New Role
- Add Product
- Modify Product
- Delete Product

#### C. Functionality applicable to both **User/Admin** –

- Get Product Details
- Get All Products
- Sort Products by Category
- Delete Order
- Sort Orders by Date Created
- Sort Orders by Category
- Sort Orders by Date Updated

#### D. Functionality Applicable Irrespective of Role

- Sign Up (Register New User)
- Sign In (Authenticate)

**Developer Details ->**

- i. **Name** : Shreyash Vijay Pawar
- ii. **Designation** : Developer
- iii. **IDE used** : Eclipse & SQL Developer
- iv. **Server Used** : Embedded Tomcat
- v. **Database Used** : SQL (Oracle)
- vi. **Framework for DB Connection** : JPA

**2. Sprints Planned and the Tasks Achieved in them**

Sprint	Task	Developer	Estimated Time (Hrs)	Actual Time (Hrs)	Remaining Time (Hrs)	Status
#1	Analysis	Shreyash	1	1	0	Complete
	Entities & DTO's	Shreyash	2	2	0	Complete
	User and Role Functionality	Shreyash	4	4	0	Complete
	Product & Category Functionality	Shreyash	4	4	0	Complete
#2	Order Functionality	Shreyash	4	4	0	Complete
	Spring Security	Shreyash	2	2	0	Complete
	Testing	Shreyash	3	3	0	Complete
	Documentation	Shreyash	2	2	0	Complete

### 3. Algorithms and Flowcharts of the Application

Accessible to Admin :   
 Accessible to User :   
 Accessible to Both :

#### 1. User Functionality

Register New User  
<http://localhost:9090/api/users/registerNewUser>

Authenticate (Sign In)  
<http://localhost:9090/authenticate>

Create New Role  
<http://localhost:9090/api/users/createNewRole>

**Sporty Shoes  
Application**

#### 2. Product Functionality

Add Product  
<http://localhost:9090/api/products/product>

Update Product  
<http://localhost:9090/api/products/updateProduct>

Delete Product  
<http://localhost:9090/api/products/product/5>

Get Product Details  
<http://localhost:9090/api/products/getProduct/4>

Get All Products  
<http://localhost:9090/api/products/getProducts>

Sort Products By Category  
<http://localhost:9090/api/products/sortedProducts>

#### 3. Order Functionality

Place Order  
<http://localhost:9090/api/orders/order>

Modify Order  
<http://localhost:9090/api/orders/modifyOrder>

Delete Order  
<http://localhost:9090/api/orders/deleteOrder/1>

Sort By Date Created  
<http://localhost:9090/api/orders/orderByDateCreated>

Sort By Product Category  
<http://localhost:9090/api/orders/orderByProductCategory>

Sort By Date Updated  
<http://localhost:9090/api/orders/orderByDateUpdated>

#### **4. Core Concepts Used in the Project**

1. Java 8 & Above
2. Lombok
3. SQL
4. Maven
5. MVC Model
6. Spring Framework
7. JPA Framework
8. Spring Security
9. Jwt Authentication

## 5. Functionality & Features of Sporty Shoes Application

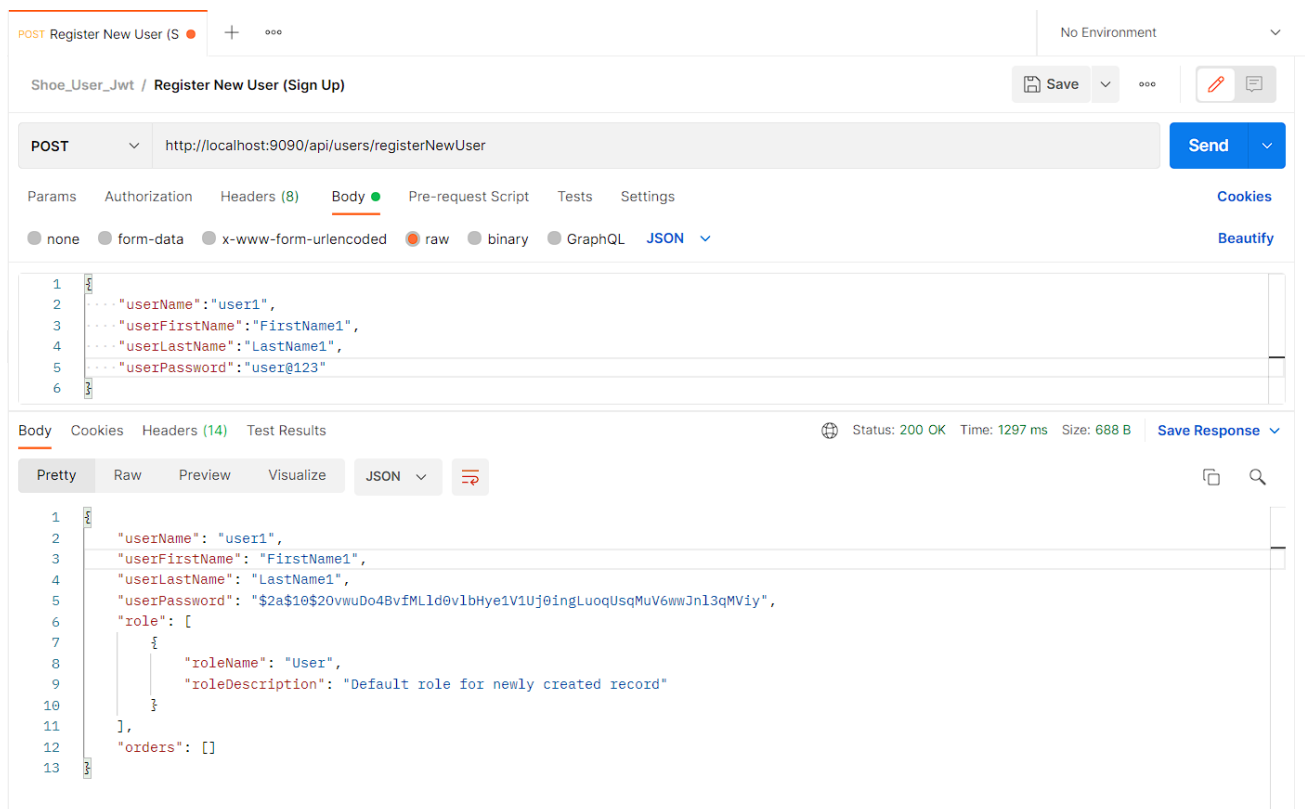
### Functionality Irrespective of Roles

#### I. Sign Up (Register New user)

**POST:** <http://localhost:9090/api/users/registerNewUser>

**JSON Body:**

```
{
  "userName": "user1",
  "userFirstName": "FirstName1",
  "userLastName": "LastName1",
  "userPassword": "user@123"
}
```





## II. Sign In (Authentication)

**POST:** <http://localhost:9090/authenticate>

**JSON Body:**

```
{
  "userName": "admin123",
  "userPassword": "admin@pass"
}
```

**Response :**

```
"jwtToken": "eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbjEyMyIsImV4cCI6MTY1MjQ0NTc2NiwiawWF0IjoxNjUyNDQyMTY2fQ.99Ige4G_MVLJ9IMpLCRjBbH2q4F9DNOIH3dSB7BRE7RtKl_kQ1luqCSDwFx9-noHuVZnmXyaomHTJxQD_B9JJA"
```

Shoe\_User\_Jwt / Authenticate (Sign In)

POST <http://localhost:9090/authenticate> Send

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies Beautify

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL ☒ JSON

```
1 {
2   "userName": "admin123",
3   "userPassword": "admin@pass"
4 }
```

Body Cookies Headers (14) Test Results Status: 200 OK Time: 8.53 s Size: 857 B Save Response

**Pretty** Raw Preview Visualize ☒ JSON Copy Search

```
1 {
2   "user": {
3     "userName": "admin123",
4     "userFirstName": "admin",
5     "userLastName": "admin",
6     "userPassword": "$2a$10$2eTk5y9W390yYbk6KQoIsOydaX43vW6otlrAlfZS/.11H2zFLXpum",
7     "role": [
8       {
9         "roleName": "Admin",
10        "roleDescription": "Admin role"
11      }
12    ],
13    "orders": []
14  },
15  "jwtToken": "eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbjEyMyIsImV4cCI6MTY1MjQ0NTc2NiwiawWF0IjoxNjUyNDQyMTY2fQ.99Ige4G_MVLJ9IMpLCRjBbH2q4F9DNOIH3dSB7BRE7RtKl_kQ1luqCSDwFx9-noHuVZnmXyaomHTJxQD_B9JJA"
16 }
```

# Sporty Shoes (Shoe Management Portal)

## A. Login as Admin

### I. Update Password Functionality

**GET:** <http://localhost:9090/api/users/updatePassowrd/admin123/232063>

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `http://localhost:9090/api/users/updatePassowrd/admin123/pass`
- Headers:**
  - Authorization:** Bearer `eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbjEyMy...`
- Status:** 200 OK
- Time:** 588 ms
- Size:** 656 B
- Response Body (JSON):**

```

1  {
2    "userName": "admin123",
3    "userFirstName": "admin",
4    "userLastName": "admin",
5    "userPassword": "$2a$10$VnS9CLrn7oGc9.dMaGKEsuscS.ThZ0w4460cu6xUjHUJVNyjiIjAL0",
6    "role": [
7      {
8        "roleName": "Admin",
9        "roleDescription": "Admin role"
10     }
11  ],
12  "orders": []
13  }

```

## II. Get User Details Functionality

**GET:** <http://localhost:9090/api/users/getUserDetails/admin123>

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** <http://localhost:9090/api/users/getUserDetails/admin123>
- Headers (9):**

KEY	VALUE	DESCRIPTION
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbjEyMyl...	
Key	Value	Description
- Body:**

```

1  {
2    "userName": "admin123",
3    "userFirstName": "admin",
4    "userLastName": "admin",
5    "userPassword": "$2a$10$VnS9CLin7oGc9.dMaGKEsuscS.ThZ0w4460cu6xUjHUJVnyjIjAL0",
6    "role": [
7      {
8        "roleName": "Admin",
9        "roleDescription": "Admin role"
10     }
11  ],
12  "orders": []
13  }

```
- Status:** 200 OK
- Time:** 565 ms
- Size:** 656 B

### III. New Role Creation Functionality

**POST:** <http://localhost:9090/api/userRoles/createNewRole>

**JSON Body:**

```
{
  "roleName": "Student",
  "roleDescription": "This is Student role."
}
```

### Request with JWT Token

The screenshot shows a REST client interface for a POST request to `http://localhost:9090/api/userRoles/createNewRole`. The request is configured with the following headers:

KEY	VALUE	DESCRIPTION
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWiiOiJhZG1pbjEyMyIsImV4cCI6MTY1MjQ0NTc2NiwiYW0iOiJhZG1pbjUyNDQyMTY2fQ.99lgE4G_MVLJ9IMoLCRiBbH2a4F9DNOIH3dSB7BRE7RtKI_kQ	
Key		Description

The response section is currently empty.

### On Successful Role Creation

The screenshot shows the same REST client interface, but now displaying the response of the POST request. The response is a JSON object:

```
{
  "roleName": "Student",
  "roleDescription": "Student role for testing."
}
```

The status bar at the bottom indicates: Status: 200 OK, Time: 469 ms, Size: 503 B. The response is saved and displayed in the 'Body' section.

# Sporty Shoes (Shoe Management Portal)

## IV. Add Product Functionality

**POST:** http://localhost:9090/api/products/product

**JSON Body:**

**Note:** Valid Product Categories -> ['SPORTS', 'TREKKING', 'FORMAL', 'CASUAL', 'LOAFER']

```
{
  "productName": "Shoe1",
  "productDescription": "Durable",
  "productCategoryName": "SPORTS",
  "productCategoryDescription": "Mainly designed for Athelets",
  "manufacturer": "PUMA",
  "unitPrice": 3500,
  "unitsInStock": 70
}
```

## Request

### On Successfully Adding Product

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** http://localhost:9090/api/products/product
- Body (JSON):**

```
{
  "productName": "Shoe1",
  "productDescription": "Durable",
  "productCategoryName": "SPORTS",
  "productCategoryDescription": "Mainly designed for Athelets",
  "manufacturer": "PUMA",
  "unitPrice": 3500,
  "unitsInStock": 70
}
```
- Status:** 201 Created
- Time:** 9.69 s
- Size:** 573 B
- Response (JSON):**

```
{
  "id": 70,
  "productName": "Shoe1",
  "productDescription": "Durable",
  "unitPrice": 3500.0,
  "manufacturer": "PUMA",
  "unitsInStock": 70,
  "orders": []
}
```

# Sporty Shoes (Shoe Management Portal)

## V. Modify Product Functionality

PUT: <http://localhost:9090/api/products/updateProduct>

JSON Body:

```
{
  "productId": 74,
  "productName": "Shoe1",
  "productDescription": "Best",
  "productCategoryName": "CASUAL",
  "productCategoryDescription": "Mainly designed for General use",
  "manufacturer": "REEBOK",
  "unitPrice": 1400,
  "unitsInStock": 120
}
```

## DB Before Modification

```
SELECT * FROM ORDERS;
SELECT * FROM PRODUCTS;
SELECT * FROM PRODUCT_CATEGORY;
SELECT * FROM USER_TABLE;
SELECT * FROM ROLE_TABLE;
SELECT * FROM USER_ROLE;
```

ID	MANUFACTURER	PRODUCT_DESCRIPTION	PRODUCT_NAME	UNIT_PRICE	UNITS_IN_STOCK	PROD_CATEGORY_FK
1	75 RED CHIEF	Best	Shoe2	3000	150	FORMAL
2	72 NIKE	Durable	Shoe6	5000	100	SPORTS
3	73 RED CHIEF	Reliable	Shoe10	4500	50	SPORTS
4	74 PUMA	Durable	Shoe1	4500	50	SPORTS

# Sporty Shoes (Shoe Management Portal)

## Product Successfully Modified

PUT Update Product + ... No Environment

Shoe\_Product / Update Product Save ...

PUT http://localhost:9090/api/products/updateProduct Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```

2  ... "productId":74,
3    "productName":"Shoe1",
4    "productDescription":"Best",
5    "productCategoryName":"CASUAL",
6    "productCategoryDescription":"Mainly designed for General use",
7    "manufacturer":"REEBOK",
8    "unitPrice":1400,
9    "unitsInStock":120
10 }

```

Body Cookies Headers (14) Test Results Status: 200 OK Time: 290 ms Size: 568 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "id": 74,
3   "productName": "Shoe1",
4   "productDescription": "Best",
5   "unitPrice": 1400.0,
6   "manufacturer": "REEBOK",
7   "unitsInStock": 120,
8   "orders": []
9 }

```

## DB After Modification

```

SELECT * FROM ORDERS;
SELECT * FROM PRODUCTS;
SELECT * FROM PRODUCT_CATEGORY;

```

Script Output x Query Result x

SQL | All Rows Fetched: 5 in 0.005 seconds

ID	MANUFACTURER	PRODUCT_DESCRIPTION	PRODUCT_NAME	UNIT PRICE	UNITS_IN_STOCK	PROD_CATEGORY_FK
1	75 RED CHIEF	Best	Shoe2	3000	150	FORMAL
2	76 REEBOK	Best	Shoe2	1200	100	CASUAL
3	72 NIKE	Durable	Shoe6	5000	100	SPORTS
4	73 RED CHIEF	Reliable	Shoe10	4500	50	SPORTS
5	74 REEBOK	Best	Shoe1	1400	120	SPORTS

# Sporty Shoes (Shoe Management Portal)

## VI. Delete Product Functionality

**DELETE:** <http://localhost:9090/api/products/product/5>

### DB Before Deletion

```
SELECT * FROM ORDERS;
SELECT * FROM PRODUCTS;
SELECT * FROM PRODUCT_CATEGORY;
```

ID	MANUFACTURER	PRODUCT_DESCRIPTION	PRODUCT_NAME	UNIT_PRICE	UNITS_IN_STOCK	PROD_CATEGORY_FK
1	75 RED CHIEF	Best	Shoe2	3000	150	FORMAL
2	76 REEBOK	Best	Shoe2	1200	100	CASUAL
3	72 NIKE	Durable	Shoe6	5000	100	SPORTS
4	73 RED CHIEF	Reliable	Shoe10	4500	50	SPORTS
5	74 REEBOK	Best	Shoe1	1400	120	SPORTS

### On Successful Product Deletion

DEL Delete Product x + ... No Environment v

Shoe\_Product / Delete Product Save v ...

**DELETE** v <http://localhost:9090/api/products/product/75> Send v

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

Headers 6 hidden

KEY	VALUE	DESCRIPTION	Bulk Edit	Presets
<input checked="" type="checkbox"/> Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbjEyMy...			
Key	Value	Description		

Body Cookies Headers (14) Test Results Status: 200 OK Time: 625 ms Size: 464 B Save Response v

Pretty Raw Preview Visualize Text v

1 Product Deleted Successfully.

### DB After Deletion

```
SELECT * FROM ORDERS;
SELECT * FROM PRODUCTS;
SELECT * FROM PRODUCT_CATEGORY;
```

ID	MANUFACTURER	PRODUCT_DESCRIPTION	PRODUCT_NAME	UNIT_PRICE	UNITS_IN_STOCK	PROD_CATEGORY_FK
1	75 RED CHIEF	Best	Shoe2	3000	150	FORMAL
2	76 REEBOK	Best	Shoe2	1200	100	CASUAL
3	72 NIKE	Durable	Shoe6	5000	100	SPORTS
4	73 RED CHIEF	Reliable	Shoe10	4500	50	SPORTS
5	74 REEBOK	Best	Shoe1	1400	120	SPORTS



## B. Login as User

### I. Place Order Functionality

**POST:** `http://localhost:9090/api/orders/order`

**JSON Body:**

```
{
  "totalQuantity": 3,
  "address": "Pune",
  "productId": 72,
  "userName": "user1"
}
```

## On Successfully Placing Order

The screenshot displays a REST client interface with a tab titled "POST Place Order". The URL bar shows `http://localhost:9090/api/orders/order`. The "Body" tab is selected, showing a JSON payload: `{ "totalQuantity": 3, "address": "Pune", "productId": 72, "userName": "user1" }`. The "Send" button is visible. Below the request, the "Body" tab of the response is selected, showing a status of "200 OK" and a message: "Order Successfully placed. Order Tracking Number is 42d232ba-231c-43ad-810a-c44c06a2f107".

# Sporty Shoes (Shoe Management Portal)

## II. Modify Order Functionality

PUT: <http://localhost:9090/api/orders/modifyOrder>

JSON Body:

```
{
  "orderId": 83,
  "totalQuantity": 9,
  "address": "Delhi",
  "productId": 72,
  "userName": "user2"
}
```

### Before Modifying Order

Script Output x Query Result x

SQL | All Rows Fetched: 1 in 0.094 seconds

ORDER_ID	ADDRESS	DATE_CREATED	LAST_UPDATED	ORDER_TRACKING_NUMBER	PRODUCT_ID	TOTAL_PRICE	TOTAL_QUANTITY	USERNAME_FK	PRODUCT_FK
1	83 Pune	13-MAY-22	13-MAY-22	42d232ba-231c-43ad-810a-c44c06a2f107	72	15000	3	user1	72

### On Successfully Modifying Order

GET Get Orders By Prod x GET Get Orders By Date Up x DEL Delete Order x PUT Modify Order x GET Get Orders By Date Cre + ... No Environment

Shoe\_Order / Modify Order

Save v ...

PUT http://localhost:9090/api/orders/modifyOrder Send v

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON v

```
1 {
2   "orderId": 83,
3   "totalQuantity": 9,
4   "address": "Delhi",
5   "productId": 72,
6   "userName": "user2"
7 }
```

Body Cookies Headers (14) Test Results Status: 200 OK Time: 1001 ms Size: 674 B Save Response v

Pretty Raw Preview Visualize JSON v

```
1 {
2   "orderId": 83,
3   "orderTrackingNumber": "42d232ba-231c-43ad-810a-c44c06a2f107",
4   "totalQuantity": 9,
5   "totalPrice": 45000.0,
6   "address": "Delhi",
7   "productId": 72,
8   "dateCreated": "2022-05-13T13:21:06.128+00:00",
9   "lastUpdated": "2022-05-13T13:25:34.676+00:00"
10 }
```

### After Modifying Order

Script Output x Query Result x

SQL | All Rows Fetched: 1 in 0.043 seconds

ORDER_ID	ADDRESS	DATE_CREATED	LAST_UPDATED	ORDER_TRACKING_NUMBER	PRODUCT_ID	TOTAL_PRICE	TOTAL_QUANTITY	USERNAME_FK	PRODUCT_FK
1	83 Delhi	13-MAY-22	13-MAY-22	42d232ba-231c-43ad-810a-c44c06a2f107	72	45000	9	user1	72

## C. Login as Admin/User

### I. Get Product Details Functionality

**GET:** <http://localhost:9090/api/products/getProduct/4>

## On Successful Fetching Product Details

The screenshot shows a REST client interface with the following details:

- Request Method:** GET
- URL:** <http://localhost:9090/api/products/getProduct/82>
- Status:** 302 Found
- Time:** 101 ms
- Size:** 571 B
- Response Body (JSON):**

```
{  "id": 82,  "productName": "Shoe9",  "productDescription": "Popular",  "unitPrice": 6000.0,  "manufacturer": "PUMA",  "unitsInStock": 10,  "orders": []}
```

The interface also includes tabs for Params, Authorization, Headers (7), Body, Pre-request Script, Tests, and Settings. The Body tab is currently selected, showing the JSON response in a pretty-printed format.

# Sporty Shoes (Shoe Management Portal)

## II. Get All Products Functionality

**GET:** <http://localhost:9090/api/products/getProducts>

### On Successful Fetching All Products

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** <http://localhost:9090/api/products/getProducts>
- Headers (7):**

KEY	VALUE	DESCRIPTION
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWllOiJhZG1pbjEyMy...	
Key	Value	Description
- Status:** 302 Found, Time: 114 ms, Size: 1.77 KB
- Body (JSON):**

```
[
  {
    "id": 79,
    "productName": "Shoe5",
    "productDescription": "Attractive",
    "unitPrice": 4200.0,
    "manufacturer": "NIKE",
    "unitsInStock": 125,
    "orders": []
  },
  {
    "id": 76,
    "productName": "Shoe2",
    "productDescription": "Best",
    "unitPrice": 1200.0,
    "manufacturer": "REEBOK",
    "unitsInStock": 100,
    "orders": []
  }
]
```

### Fetches Products

```
[
  {
    "id": 79,
    "productName": "Shoe5",
    "productDescription": "Attractive",
    "unitPrice": 4200.0,
    "manufacturer": "NIKE",
    "unitsInStock": 125,
    "orders": []
  },
  {
    "id": 76,
    "productName": "Shoe2",
    "productDescription": "Best",
    "unitPrice": 1200.0,
    "manufacturer": "REEBOK",
    "unitsInStock": 100,
    "orders": []
  }
]
```

# Sporty Shoes (Shoe Management Portal)

```
,
{
  "id": 72,
  "productName": "Shoe6",
  "productDescription": "Durable",
  "unitPrice": 5000.0,
  "manufacturer": "NIKE",
  "unitsInStock": 100,
  "orders": []
},
{
  "id": 73,
  "productName": "Shoe10",
  "productDescription": "Reliable",
  "unitPrice": 4500.0,
  "manufacturer": "RED CHIEF",
  "unitsInStock": 50,
  "orders": []
},
{
  "id": 74,
  "productName": "Shoe1",
  "productDescription": "Best",
  "unitPrice": 1400.0,
  "manufacturer": "REEBOK",
  "unitsInStock": 120,
  "orders": []
},
{
  "id": 77,
  "productName": "Shoe3",
  "productDescription": "Reliable",
  "unitPrice": 3000.0,
  "manufacturer": "PUMA",
  "unitsInStock": 90,
  "orders": []
},
{
  "id": 78,
  "productName": "Shoe4",
  "productDescription": "Durable",
  "unitPrice": 4000.0,
  "manufacturer": "RED CHIEF",
  "unitsInStock": 170,
  "orders": []
},
{
  "id": 80,
  "productName": "Shoe7",
  "productDescription": "Hard and Sturdy",
  "unitPrice": 2200.0,
```

# Sporty Shoes (Shoe Management Portal)

```
    "manufacturer": "ADIDAS",
    "unitsInStock": 25,
    "orders": []
  },
  {
    "id": 81,
    "productName": "Shoe8",
    "productDescription": "Popular",
    "unitPrice": 2800.0,
    "manufacturer": "ADIDAS",
    "unitsInStock": 40,
    "orders": []
  },
  {
    "id": 82,
    "productName": "Shoe9",
    "productDescription": "Popular",
    "unitPrice": 6000.0,
    "manufacturer": "PUMA",
    "unitsInStock": 10,
    "orders": []
  }
]
```

### III. Get Products Sorted by Category Functionality

GET: <http://localhost:9090/api/products/sortedProducts>

#### On Successful Fetching Products Sorted by Category

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** http://localhost:9090/api/products/sortedProducts
- Headers (7):** Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbjEyMy...
- Status:** 302 Found
- Time:** 917 ms
- Size:** 1.77 KB
- Body (JSON):**

```
[
  {
    "id": 79,
    "productName": "Shoe5",
    "productDescription": "Attractive",
    "unitPrice": 4200.0,
    "manufacturer": "NIKE",
    "unitsInStock": 125,
    "orders": []
  },
  {
    "id": 76,
    "productName": "Shoe2",
    "productDescription": "Best",
    "unitPrice": 1200.0,
    "manufacturer": "REEBOK",
    "unitsInStock": 100,
    "orders": []
  }
]
```

#### Fetches Results Sorted by Category

```
[
  {
    "id": 79,
    "productName": "Shoe5",
    "productDescription": "Attractive",
    "unitPrice": 4200.0,
    "manufacturer": "NIKE",
    "unitsInStock": 125,
    "orders": []
  },
  {
    "id": 76,
    "productName": "Shoe2",
    "productDescription": "Best",
    "unitPrice": 1200.0,
    "manufacturer": "REEBOK",
    "unitsInStock": 100,
    "orders": []
  }
]
```

# Sporty Shoes (Shoe Management Portal)

```
,
{
  "id": 77,
  "productName": "Shoe3",
  "productDescription": "Reliable",
  "unitPrice": 3000.0,
  "manufacturer": "PUMA",
  "unitsInStock": 90,
  "orders": []
},
{
  "id": 78,
  "productName": "Shoe4",
  "productDescription": "Durable",
  "unitPrice": 4000.0,
  "manufacturer": "RED CHIEF",
  "unitsInStock": 170,
  "orders": []
},
{
  "id": 82,
  "productName": "Shoe9",
  "productDescription": "Popular",
  "unitPrice": 6000.0,
  "manufacturer": "PUMA",
  "unitsInStock": 10,
  "orders": []
},
{
  "id": 81,
  "productName": "Shoe8",
  "productDescription": "Popular",
  "unitPrice": 2800.0,
  "manufacturer": "ADIDAS",
  "unitsInStock": 40,
  "orders": []
},
{
  "id": 72,
  "productName": "Shoe6",
  "productDescription": "Durable",
  "unitPrice": 5000.0,
  "manufacturer": "NIKE",
  "unitsInStock": 100,
  "orders": []
},
{
  "id": 73,
  "productName": "Shoe10",
  "productDescription": "Reliable",
  "unitPrice": 4500.0,
```



# Sporty Shoes (Shoe Management Portal)

```
    "manufacturer": "RED CHIEF",
    "unitsInStock": 50,
    "orders": []
  },
  {
    "id": 74,
    "productName": "Shoe1",
    "productDescription": "Best",
    "unitPrice": 1400.0,
    "manufacturer": "REEBOK",
    "unitsInStock": 120,
    "orders": []
  },
  {
    "id": 80,
    "productName": "Shoe7",
    "productDescription": "Hard and Sturdy",
    "unitPrice": 2200.0,
    "manufacturer": "ADIDAS",
    "unitsInStock": 25,
    "orders": []
  }
]
```

# Sporty Shoes (Shoe Management Portal)

## IV. Delete Order Functionality

GET: <http://localhost:9090/api/orders/deleteOrder/91>

### Before Order Deletion

```
SELECT * FROM ORDERS;
SELECT * FROM PRODUCTS;
```

ORDER_ID	ADDRESS	DATE_CREATED	LAST_UPDATED	ORDER_TRACKING_NUMBER	PRODUCT_ID	TOTAL_PRICE	TOTAL_QUANTITY	USERNAME_FK	PRODUCT_FK
1	83 Delhi	13-MAY-22 ...	13-MAY-22 ...	42d232ba-231c-43ad-810a-c44c06a2f107	72	45000	9	user1	72
2	84 Pune	13-MAY-22 ...	13-MAY-22 ...	b3c07971-ba73-4de8-91b2-a407094a49fc	74	4200	3	user1	74
3	85 Chennai	13-MAY-22 ...	13-MAY-22 ...	ffba7fd0-5388-404a-b1a0-1c1749f722d3	73	27000	6	user1	73
4	86 Hyderabad	13-MAY-22 ...	13-MAY-22 ...	52153d84-b054-404d-a126-d9d690439e8e	77	30000	10	user4	77
5	87 Mysore	13-MAY-22 ...	13-MAY-22 ...	9d1a75d7-91f3-4a5c-a3a7-a96a02543b62	78	32000	8	user3	78
6	88 Mumbai	13-MAY-22 ...	13-MAY-22 ...	ced4425f-fded-4eb5-aea9-eb8a6d9b6016	81	42000	15	user4	81
7	89 Dhule	13-MAY-22 ...	13-MAY-22 ...	6b747350-2661-4146-9c9e-23846b41f7b8	79	54600	13	user1	79
8	90 Nashik	13-MAY-22 ...	13-MAY-22 ...	4c9b6e9a-1c3a-4afd-8324-e748a53c255d	80	7000	7	user3	80
9	91 Gandhinagar	13-MAY-22 ...	13-MAY-22 ...	78fc7503-6bea-4e0f-a1cb-126437a5a69d	82	66000	11	user2	82

### On Successful Order Deletion

DEL Delete Order

Shoe\_Order / Delete Order

DELETE <http://localhost:9090/api/orders/deleteOrder/91> **Send**

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

Headers 6 hidden

KEY	VALUE	DESCRIPTION	Bulk Edit	Presets
<input checked="" type="checkbox"/> Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJ1c2V5MSIsImV...			
Key	Value	Description		

Body Cookies Headers (14) Test Results **Status: 200 OK Time: 449 ms Size: 479 B Save Response**

Pretty Raw Preview Visualize Text **Order with order id 91 deleted successfully.**

### After Order Deletion

```
SELECT * FROM ORDERS;
SELECT * FROM PRODUCTS;
SELECT * FROM PRODUCT CATEGORY;
```

ORDER_ID	ADDRESS	DATE_CREATED	LAST_UPDATED	ORDER_TRACKING_NUMBER	PRODUCT_ID	TOTAL_PRICE	TOTAL_QUANTITY	USERNAME_FK	PRODUCT_FK
1	83 Delhi	13-MAY-22 ...	13-MAY-22 ...	42d232ba-231c-43ad-810a-c44c06a2f107	72	45000	9	user1	72
2	84 Pune	13-MAY-22 ...	13-MAY-22 ...	b3c07971-ba73-4de8-91b2-a407094a49fc	74	4200	3	user1	74
3	85 Chennai	13-MAY-22 ...	13-MAY-22 ...	ffba7fd0-5388-404a-b1a0-1c1749f722d3	73	27000	6	user1	73
4	86 Hyderabad	13-MAY-22 ...	13-MAY-22 ...	52153d84-b054-404d-a126-d9d690439e8e	77	30000	10	user4	77
5	87 Mysore	13-MAY-22 ...	13-MAY-22 ...	9d1a75d7-91f3-4a5c-a3a7-a96a02543b62	78	32000	8	user3	78
6	88 Mumbai	13-MAY-22 ...	13-MAY-22 ...	ced4425f-fded-4eb5-aea9-eb8a6d9b6016	81	42000	15	user4	81
7	89 Dhule	13-MAY-22 ...	13-MAY-22 ...	6b747350-2661-4146-9c9e-23846b41f7b8	79	54600	13	user1	79
8	90 Nashik	13-MAY-22 ...	13-MAY-22 ...	4c9b6e9a-1c3a-4afd-8324-e748a53c255d	80	7000	7	user3	80

# Sporty Shoes (Shoe Management Portal)

## V. Get Orders Sorted by Date Created Functionality

**GET:** <http://localhost:9090/api/orders/orderByDateCreated>

### On Successful Fetching Orders Sorted by Date Created

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** <http://localhost:9090/api/orders/orderByDateCreated>
- Headers:**
  - Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJ1c2VyMSIsIm...
- Status:** 200 OK, Time: 904 ms, Size: 2.55 KB
- Response Body (JSON):**

```
[
  {
    "orderId": 83,
    "orderTrackingNumber": "42d232ba-231c-43ad-810a-c44c06a2f107",
    "totalQuantity": 9,
    "totalPrice": 45000.0,
    "address": "Delhi",
    "productId": 72,
    "dateCreated": "2022-05-13T13:21:06.128+00:00",
    "lastUpdated": "2022-05-13T13:25:34.676+00:00"
  },
  {
    "orderId": 84,
    "orderTrackingNumber": "b3c07971-ba73-4de8-91b2-a407094a49fc",
    "totalQuantity": 3,
    "totalPrice": 4200.0,
    "address": "Pune",
    "productId": 74,
    "dateCreated": "2022-05-13T13:29:25.920+00:00",
    "lastUpdated": "2022-05-13T13:29:25.920+00:00"
  }
]
```

### Fetches Orders Sorted by Date Created

```
[
  {
    "orderId": 83,
    "orderTrackingNumber": "42d232ba-231c-43ad-810a-c44c06a2f107",
    "totalQuantity": 9,
    "totalPrice": 45000.0,
    "address": "Delhi",
    "productId": 72,
    "dateCreated": "2022-05-13T13:21:06.128+00:00",
    "lastUpdated": "2022-05-13T13:25:34.676+00:00"
  },
  {
    "orderId": 84,
    "orderTrackingNumber": "b3c07971-ba73-4de8-91b2-a407094a49fc",
    "totalQuantity": 3,
    "totalPrice": 4200.0,
    "address": "Pune",
    "productId": 74,
    "dateCreated": "2022-05-13T13:29:25.920+00:00",
    "lastUpdated": "2022-05-13T13:29:25.920+00:00"
  }
],
```

# Sporty Shoes (Shoe Management Portal)

```
{
  "orderId": 85,
  "orderTrackingNumber": "ffba7fd0-5388-404a-b1a0-1c1749f722d3",
  "totalQuantity": 6,
  "totalPrice": 27000.0,
  "address": "Chennai",
  "productId": 73,
  "dateCreated": "2022-05-13T13:30:00.947+00:00",
  "lastUpdated": "2022-05-13T13:30:00.947+00:00"
},
{
  "orderId": 86,
  "orderTrackingNumber": "52153d84-b054-404d-a126-d9d690439e8e",
  "totalQuantity": 10,
  "totalPrice": 30000.0,
  "address": "Hyderabad",
  "productId": 77,
  "dateCreated": "2022-05-13T13:30:19.927+00:00",
  "lastUpdated": "2022-05-13T13:30:19.927+00:00"
},
{
  "orderId": 87,
  "orderTrackingNumber": "9d1a75d7-91f3-4a5c-a3a7-a96a02543b62",
  "totalQuantity": 8,
  "totalPrice": 32000.0,
  "address": "Mysore",
  "productId": 78,
  "dateCreated": "2022-05-13T13:30:49.443+00:00",
  "lastUpdated": "2022-05-13T13:30:49.443+00:00"
},
{
  "orderId": 88,
  "orderTrackingNumber": "ced4425f-fded-4eb5-aea9-eb8a6d9b6016",
  "totalQuantity": 15,
  "totalPrice": 42000.0,
  "address": "Mumbai",
  "productId": 81,
  "dateCreated": "2022-05-13T13:31:24.781+00:00",
  "lastUpdated": "2022-05-13T13:31:24.781+00:00"
},
{
  "orderId": 89,
  "orderTrackingNumber": "6b747350-2661-4146-9c9e-23846b41f7b8",
  "totalQuantity": 13,
  "totalPrice": 54600.0,
  "address": "Dhule",
  "productId": 79,
  "dateCreated": "2022-05-13T13:31:56.705+00:00",
  "lastUpdated": "2022-05-13T13:31:56.705+00:00"
},
{
  "orderId": 90,
  "orderTrackingNumber": "52153d84-b054-404d-a126-d9d690439e8e",
  "totalQuantity": 10,
  "totalPrice": 30000.0,
  "address": "Hyderabad",
  "productId": 77,
  "dateCreated": "2022-05-13T13:30:19.927+00:00",
  "lastUpdated": "2022-05-13T13:30:19.927+00:00"
}
```

# Sporty Shoes (Shoe Management Portal)

```
"orderId": 90,  
"orderTrackingNumber": "4c9b6e9a-1c3a-4afd-8324-e748a53c255d",  
"totalQuantity": 7,  
"totalPrice": 7000.0,  
"address": "Nashik",  
"productId": 80,  
"dateCreated": "2022-05-13T13:32:14.399+00:00",  
"lastUpdated": "2022-05-13T13:32:14.399+00:00"  
},  
{  
  "orderId": 91,  
  "orderTrackingNumber": "78fc7503-6bea-4e0f-a1cb-126437a5a69d",  
  "totalQuantity": 11,  
  "totalPrice": 66000.0,  
  "address": "Gandhinagar",  
  "productId": 82,  
  "dateCreated": "2022-05-13T13:32:53.652+00:00",  
  "lastUpdated": "2022-05-13T13:32:53.652+00:00"  
}  
]
```

# Sporty Shoes (Shoe Management Portal)

## VI. Get Orders Sorted by Product Category Functionality

**GET:** <http://localhost:9090/api/orders/orderByProductCategory>

### On Successful Fetching Orders Sorted by Product Category

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** <http://localhost:9090/api/orders/orderByProductCategory>
- Status:** 200 OK
- Time:** 571 ms
- Size:** 2.55 KB
- Headers (7):**

KEY	VALUE	DESCRIPTION
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJ1c2VyMSIsImV...	
Key	Value	Description
- Body (JSON):**

```
[
  {
    "orderId": 89,
    "orderTrackingNumber": "6b747350-2661-4146-9c9e-23846b41f7b8",
    "totalQuantity": 13,
    "totalPrice": 54600.0,
    "address": "Dhule",
    "productId": 79,
    "dateCreated": "2022-05-13T13:31:56.705+00:00",
    "lastUpdated": "2022-05-13T13:31:56.705+00:00"
  },
  {
    "orderId": 86,
    "orderTrackingNumber": "52153d84-b054-404d-a126-d9d690439e8e",
    "totalQuantity": 10,
    "totalPrice": 30000.0,
    "address": "Hyderabad",
    "productId": 77,
    "dateCreated": "2022-05-13T13:30:19.927+00:00",
    "lastUpdated": "2022-05-13T13:30:19.927+00:00"
  }
]
```

### Fetches Orders Sorted by Product Category

```
[
  {
    "orderId": 89,
    "orderTrackingNumber": "6b747350-2661-4146-9c9e-23846b41f7b8",
    "totalQuantity": 13,
    "totalPrice": 54600.0,
    "address": "Dhule",
    "productId": 79,
    "dateCreated": "2022-05-13T13:31:56.705+00:00",
    "lastUpdated": "2022-05-13T13:31:56.705+00:00"
  },
  {
    "orderId": 86,
    "orderTrackingNumber": "52153d84-b054-404d-a126-d9d690439e8e",
    "totalQuantity": 10,
    "totalPrice": 30000.0,
    "address": "Hyderabad",
    "productId": 77,
    "dateCreated": "2022-05-13T13:30:19.927+00:00",
    "lastUpdated": "2022-05-13T13:30:19.927+00:00"
  }
]
```

# Sporty Shoes (Shoe Management Portal)

```

},
{
  "orderId": 87,
  "orderTrackingNumber": "9d1a75d7-91f3-4a5c-a3a7-a96a02543b62",
  "totalQuantity": 8,
  "totalPrice": 32000.0,
  "address": "Mysore",
  "productId": 78,
  "dateCreated": "2022-05-13T13:30:49.443+00:00",
  "lastUpdated": "2022-05-13T13:30:49.443+00:00"
},
{
  "orderId": 91,
  "orderTrackingNumber": "78fc7503-6bea-4e0f-a1cb-126437a5a69d",
  "totalQuantity": 11,
  "totalPrice": 66000.0,
  "address": "Gandhinagar",
  "productId": 82,
  "dateCreated": "2022-05-13T13:32:53.652+00:00",
  "lastUpdated": "2022-05-13T13:32:53.652+00:00"
},
{
  "orderId": 88,
  "orderTrackingNumber": "ced4425f-fded-4eb5-aea9-eb8a6d9b6016",
  "totalQuantity": 15,
  "totalPrice": 42000.0,
  "address": "Mumbai",
  "productId": 81,
  "dateCreated": "2022-05-13T13:31:24.781+00:00",
  "lastUpdated": "2022-05-13T13:31:24.781+00:00"
},
{
  "orderId": 83,
  "orderTrackingNumber": "42d232ba-231c-43ad-810a-c44c06a2f107",
  "totalQuantity": 9,
  "totalPrice": 45000.0,
  "address": "Delhi",
  "productId": 72,
  "dateCreated": "2022-05-13T13:21:06.128+00:00",
  "lastUpdated": "2022-05-13T13:25:34.676+00:00"
},
{
  "orderId": 84,
  "orderTrackingNumber": "b3c07971-ba73-4de8-91b2-a407094a49fc",
  "totalQuantity": 3,
  "totalPrice": 4200.0,
  "address": "Pune",
  "productId": 74,
  "dateCreated": "2022-05-13T13:29:25.920+00:00",
  "lastUpdated": "2022-05-13T13:29:25.920+00:00"
},

```

# Sporty Shoes (Shoe Management Portal)

```
{
  "orderId": 85,
  "orderTrackingNumber": "ffba7fd0-5388-404a-b1a0-1c1749f722d3",
  "totalQuantity": 6,
  "totalPrice": 27000.0,
  "address": "Chennai",
  "productId": 73,
  "dateCreated": "2022-05-13T13:30:00.947+00:00",
  "lastUpdated": "2022-05-13T13:30:00.947+00:00"
},
{
  "orderId": 90,
  "orderTrackingNumber": "4c9b6e9a-1c3a-4afd-8324-e748a53c255d",
  "totalQuantity": 7,
  "totalPrice": 7000.0,
  "address": "Nashik",
  "productId": 80,
  "dateCreated": "2022-05-13T13:32:14.399+00:00",
  "lastUpdated": "2022-05-13T13:32:14.399+00:00"
}
]
```



## VII. Get Orders Sorted by Date Updated Functionality

**GET:** <http://localhost:9090/api/orders/orderByDateUpdated>

### On Successful Fetching Orders Sorted by Date Updated

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** <http://localhost:9090/api/orders/orderByDateUpdated>
- Headers:** 6 hidden
- Body:** Cookies, Headers (14), Test Results
- Status:** 200 OK, Time: 181 ms, Size: 2.55 KB
- Response Format:** JSON

The response body contains the following JSON data:

```
[
  {
    "orderId": 83,
    "orderTrackingNumber": "42d232ba-231c-43ad-810a-c44c06a2f107",
    "totalQuantity": 9,
    "totalPrice": 45000.0,
    "address": "Delhi",
    "productId": 72,
    "dateCreated": "2022-05-13T13:21:06.128+00:00",
    "lastUpdated": "2022-05-13T13:25:34.676+00:00"
  },
  {
    "orderId": 84,
    "orderTrackingNumber": "b3c07971-ba73-4de8-91b2-a407094a49fc",
    "totalQuantity": 3,
    "totalPrice": 4200.0,
    "address": "Pune",
    "productId": 74,
    "dateCreated": "2022-05-13T13:29:25.920+00:00",
    "lastUpdated": "2022-05-13T13:29:25.920+00:00"
  }
]
```

### Fetches Orders Sorted by Date Updated

```
[
  {
    "orderId": 83,
    "orderTrackingNumber": "42d232ba-231c-43ad-810a-c44c06a2f107",
    "totalQuantity": 9,
    "totalPrice": 45000.0,
    "address": "Delhi",
    "productId": 72,
    "dateCreated": "2022-05-13T13:21:06.128+00:00",
    "lastUpdated": "2022-05-13T13:25:34.676+00:00"
  },
  {
    "orderId": 84,
    "orderTrackingNumber": "b3c07971-ba73-4de8-91b2-a407094a49fc",
    "totalQuantity": 3,
    "totalPrice": 4200.0,
    "address": "Pune",
    "productId": 74,
    "dateCreated": "2022-05-13T13:29:25.920+00:00",
    "lastUpdated": "2022-05-13T13:29:25.920+00:00"
  }
]
```

# Sporty Shoes (Shoe Management Portal)

```

},
{
  "orderId": 85,
  "orderTrackingNumber": "ffba7fd0-5388-404a-b1a0-1c1749f722d3",
  "totalQuantity": 6,
  "totalPrice": 27000.0,
  "address": "Chennai",
  "productId": 73,
  "dateCreated": "2022-05-13T13:30:00.947+00:00",
  "lastUpdated": "2022-05-13T13:30:00.947+00:00"
},
{
  "orderId": 86,
  "orderTrackingNumber": "52153d84-b054-404d-a126-d9d690439e8e",
  "totalQuantity": 10,
  "totalPrice": 30000.0,
  "address": "Hyderabad",
  "productId": 77,
  "dateCreated": "2022-05-13T13:30:19.927+00:00",
  "lastUpdated": "2022-05-13T13:30:19.927+00:00"
},
{
  "orderId": 87,
  "orderTrackingNumber": "9d1a75d7-91f3-4a5c-a3a7-a96a02543b62",
  "totalQuantity": 8,
  "totalPrice": 32000.0,
  "address": "Mysore",
  "productId": 78,
  "dateCreated": "2022-05-13T13:30:49.443+00:00",
  "lastUpdated": "2022-05-13T13:30:49.443+00:00"
},
{
  "orderId": 88,
  "orderTrackingNumber": "ced4425f-fded-4eb5-aea9-eb8a6d9b6016",
  "totalQuantity": 15,
  "totalPrice": 42000.0,
  "address": "Mumbai",
  "productId": 81,
  "dateCreated": "2022-05-13T13:31:24.781+00:00",
  "lastUpdated": "2022-05-13T13:31:24.781+00:00"
},
{
  "orderId": 89,
  "orderTrackingNumber": "6b747350-2661-4146-9c9e-23846b41f7b8",
  "totalQuantity": 13,
  "totalPrice": 54600.0,
  "address": "Dhule",
  "productId": 79,
  "dateCreated": "2022-05-13T13:31:56.705+00:00",
  "lastUpdated": "2022-05-13T13:31:56.705+00:00"
},

```

# Sporty Shoes (Shoe Management Portal)

```
{
  "orderId": 90,
  "orderTrackingNumber": "4c9b6e9a-1c3a-4afd-8324-e748a53c255d",
  "totalQuantity": 7,
  "totalPrice": 7000.0,
  "address": "Nashik",
  "productId": 80,
  "dateCreated": "2022-05-13T13:32:14.399+00:00",
  "lastUpdated": "2022-05-13T13:32:14.399+00:00"
},
{
  "orderId": 91,
  "orderTrackingNumber": "78fc7503-6bea-4e0f-a1cb-126437a5a69d",
  "totalQuantity": 11,
  "totalPrice": 66000.0,
  "address": "Gandhinagar",
  "productId": 82,
  "dateCreated": "2022-05-13T13:32:53.652+00:00",
  "lastUpdated": "2022-05-13T13:32:53.652+00:00"
}
]
```

## 6. Links to the GitHub Repository & Notes

1) **Link:** <https://github.com/ShreyashVijayPawar/SportyShoesApplication.git>

2) **Note:**

- i. Code present in master branch
- ii. Admin username will be **admin123** and password will be **admin@pass**.
- iii. Before Running Web Application, please execute below database.sql file which is present in resources path in SQL DB.



database.sql

- iv. Once Authenticated you will get Jwt Token, after that for accessing any URL provide below details in **Header** tab in Postman.  
Key: "Authorization"  
Value: "Bearer {jwt\_token}"  
e. g. Value: **Bearer**  
**eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbjEyMyIsImV4cCI6MTY1MjQ0OTUxNiwiWF0ljoXNjUyNDQ1OTE2fQ.jtEtKa6AyrYfBcots\_GktQAMf0sPnmxlMJ\_DnRucemQ3bAyTeGsxmVBltnpCT8sQJbrmQKUVqt3VVX-4tGPGrQ**
- v. Please configure database details in **application.properties** file present in **/SportyShoesApp/src/main/resources/application.properties**

## **7. Your conclusion on enhancing the application and defining the USPs (Unique Selling Points)**

### **A. Enhancements –**

- Functionality for Admin/User to fetch data sorted with various categories.
- Functionality for User to do order related operations.

### **B. Unique Selling Points (USP)**

- User Friendly Application
- Versatile and Scalable