**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.

1. If logged in as **User.** User can –
   * Place Order
   * Modify Order
2. If logged in as **Admin.** Admin can –

* Create New Role
* Add Product
* Modify Product
* Delete Product

1. 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

1. Functionality Applicable Irrespective of Role

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

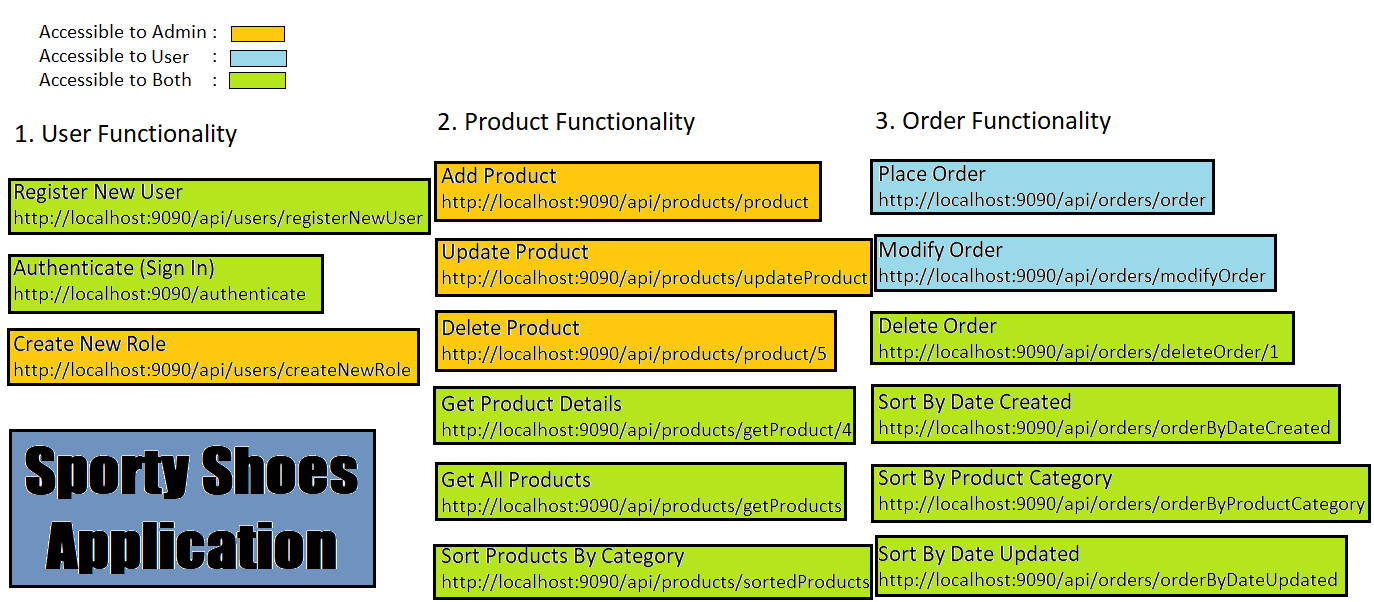
**Developer Details ->**

1. **Name :** Shreyash Vijay Pawar
2. **Designation :** Developer
3. **IDE used :** Eclipse & SQL Developer
4. **Server Used :** Embedded Tomcat
5. **Database Used :** SQL(Oracle)
6. **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**



**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**

1. **Sign Up (Register New user)**

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

**JSON Body:**

{

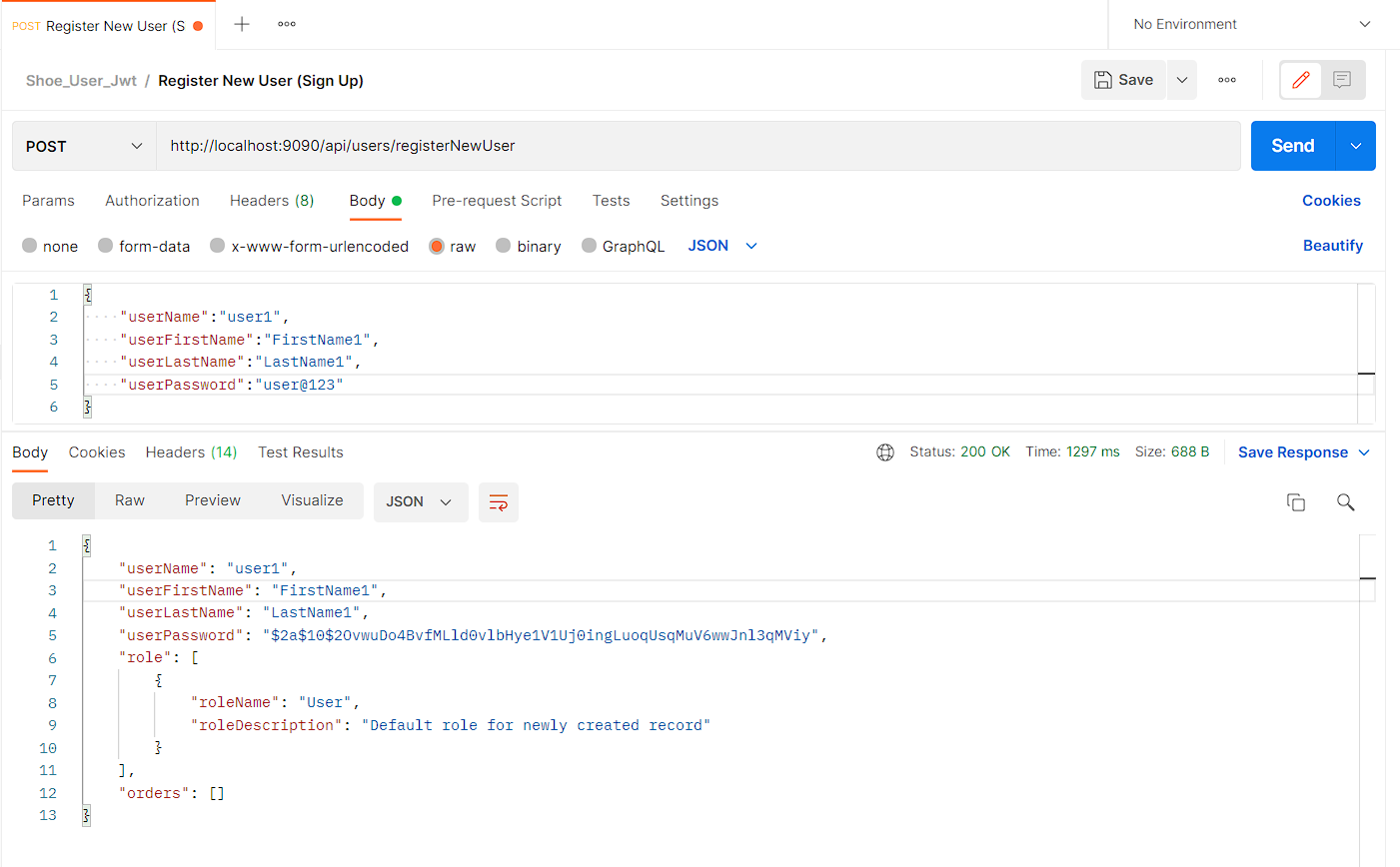
    "userName":"user1",

    "userFirstName":"FirstName1",

    "userLastName":"LastName1",

    "userPassword":"user@123"

}



1. **Sign In (Authentication)**

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

**JSON Body:**

{

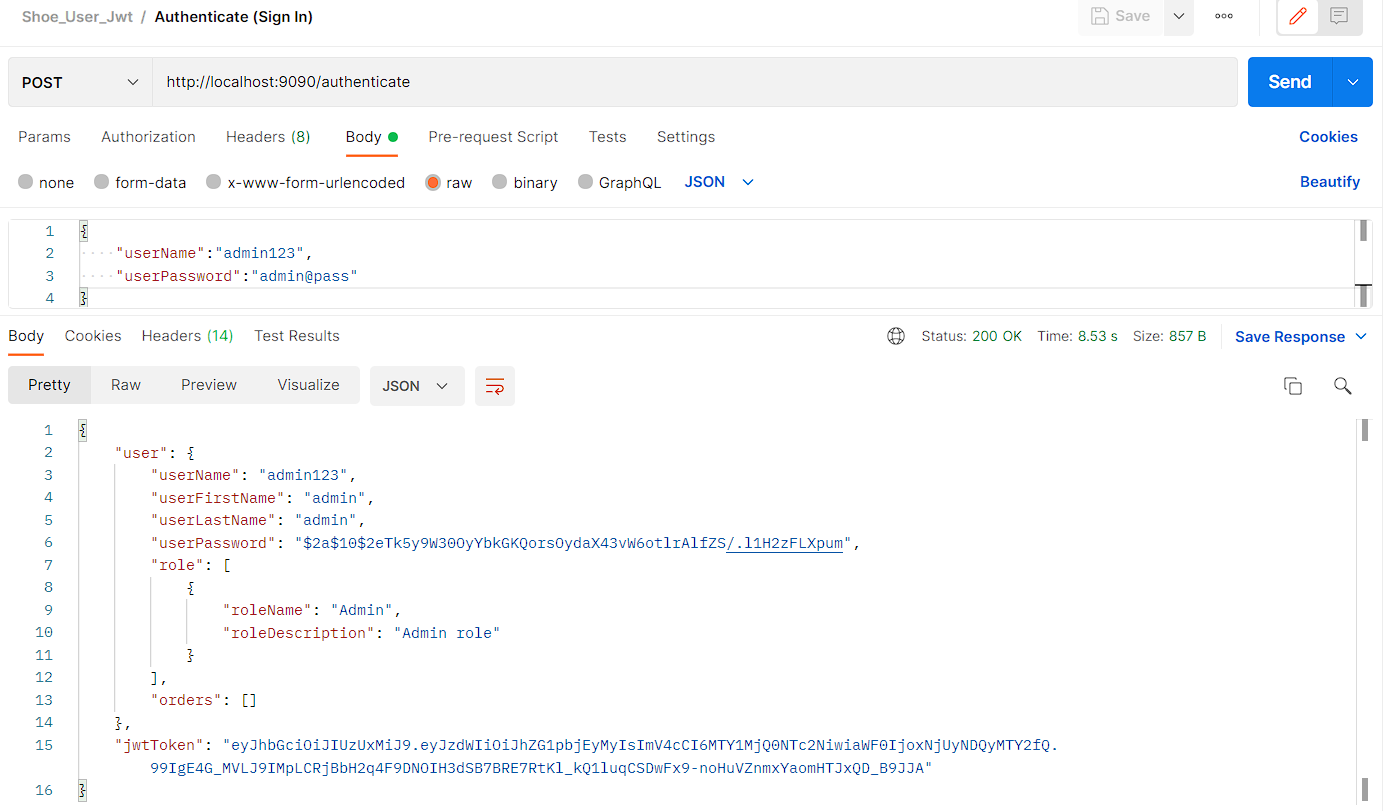
    "userName":"admin123",

    "userPassword":"admin@pass"

}

**Response:**

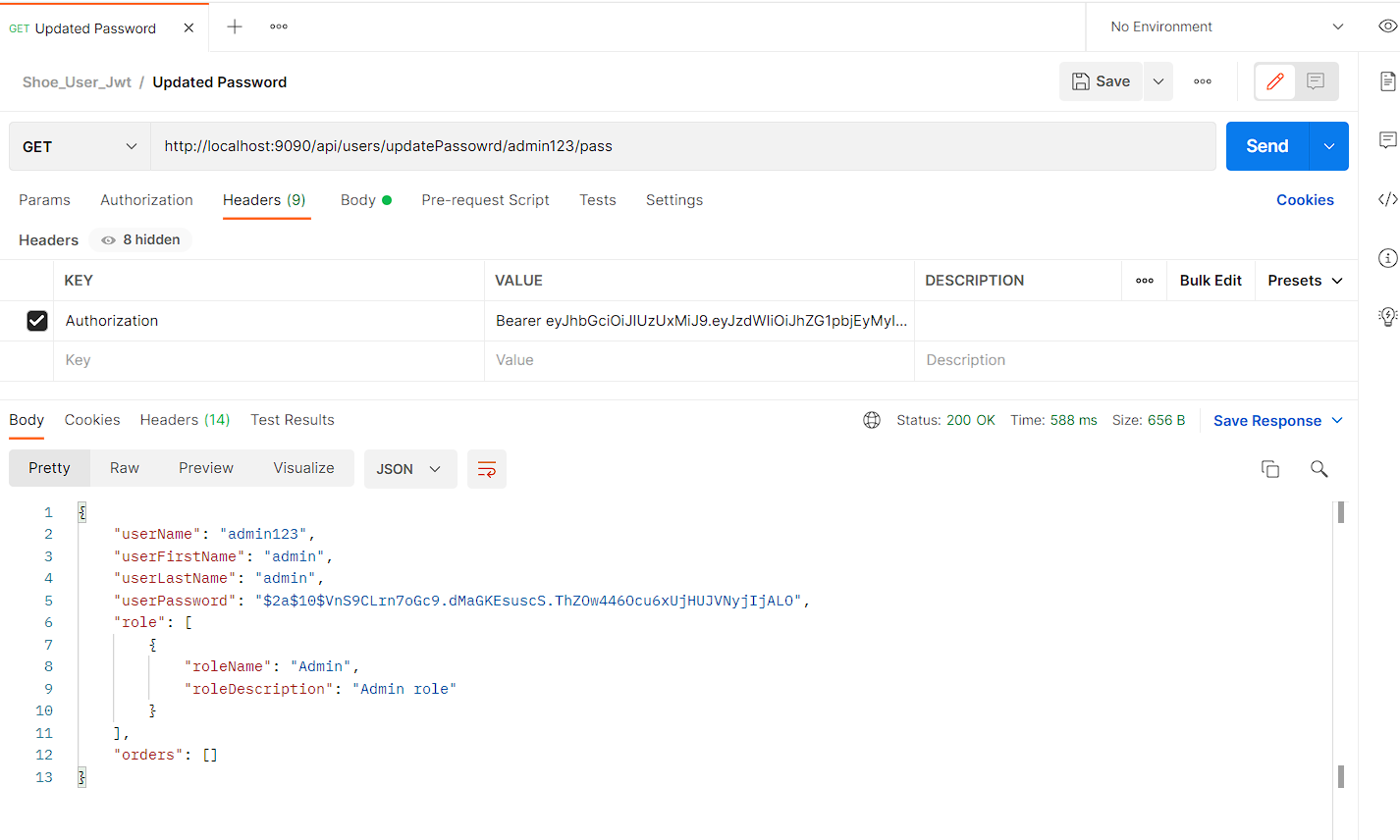
"jwtToken": "eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbjEyMyIsImV4cCI6MTY1MjQ0NTc2NiwiaWF0IjoxNjUyNDQyMTY2fQ.99IgE4G\_MVLJ9IMpLCRjBbH2q4F9DNOIH3dSB7BRE7RtKl\_kQ1luqCSDwFx9-noHuVZnmxYaomHTJxQD\_B9JJA"

****

**A. Login as Admin**

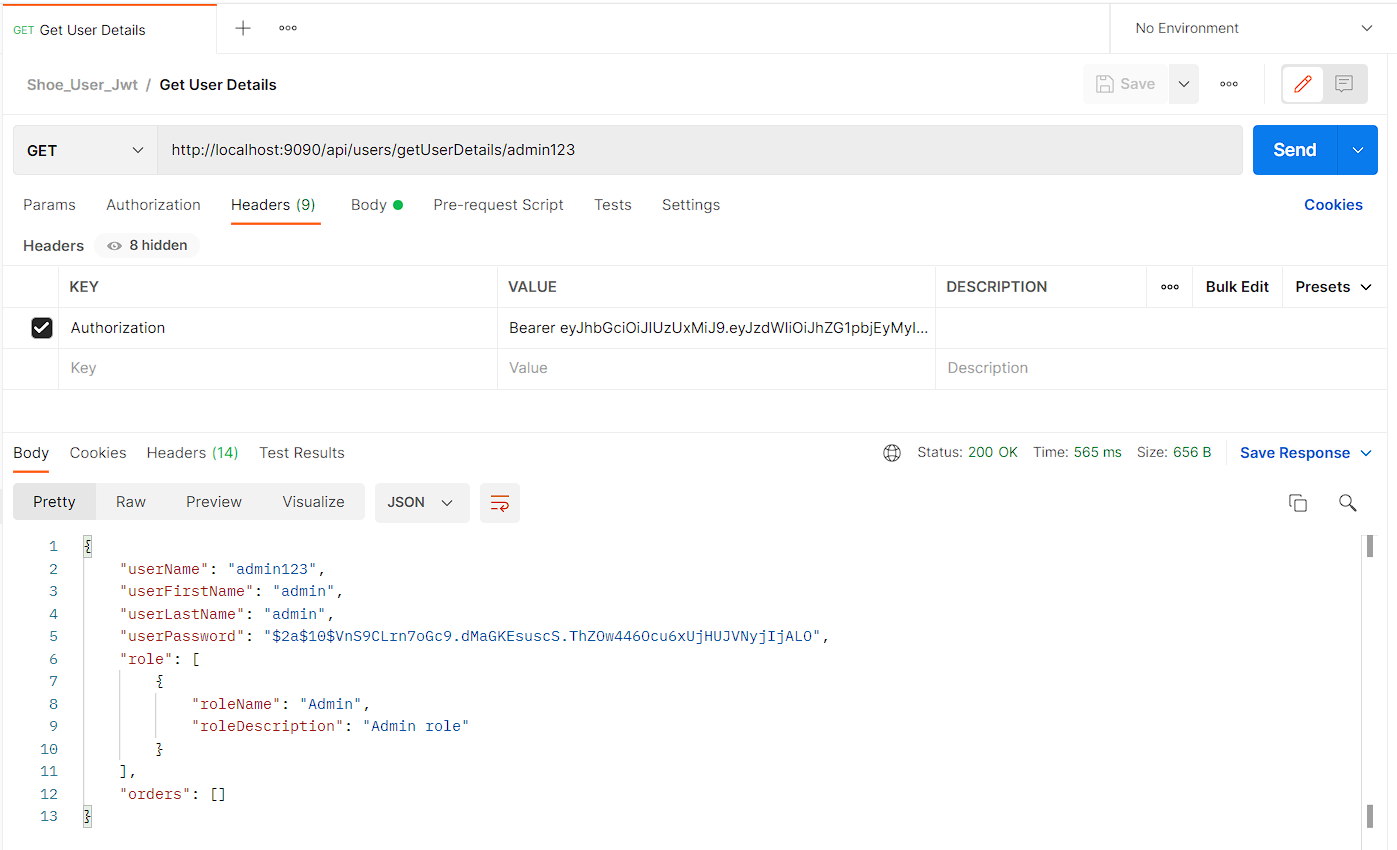
1. **Update Password Functionality**

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



1. **Get User Details Functionality**

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

****

1. **New Role Creation Functionality**

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

**JSON Body:**

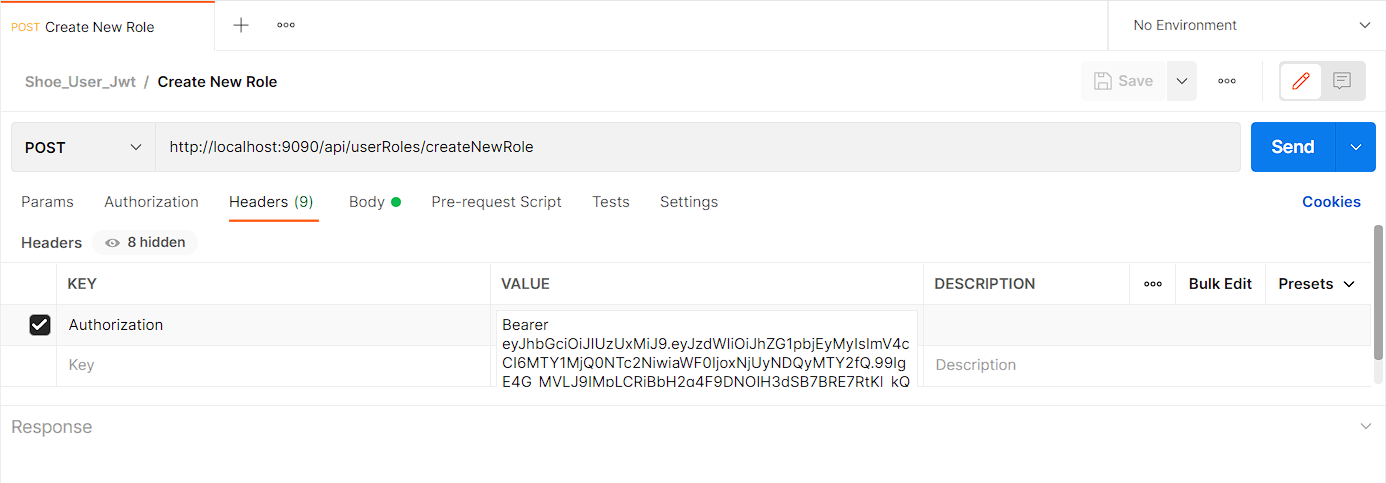
{

    "roleName":"Student",

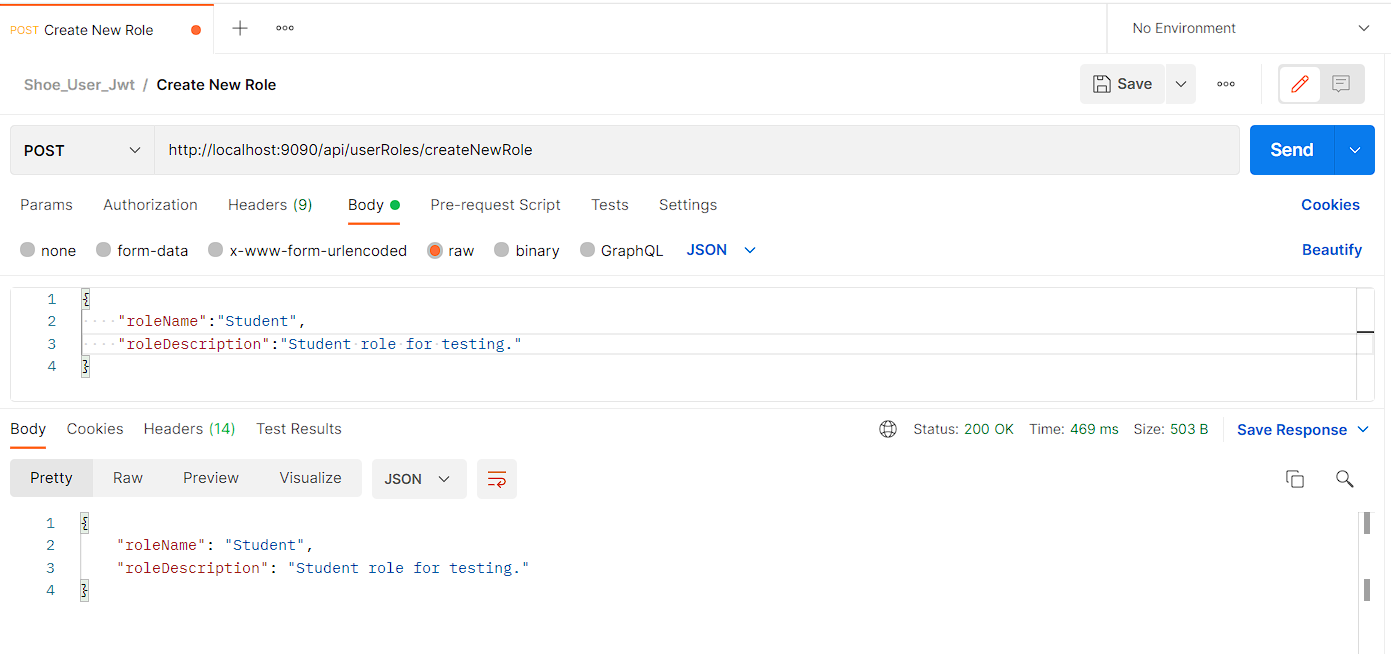
    "roleDescription":"This is Student role."

}

**Request with JWT Token**

****

**On Successful Role Creation**

****

1. **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",

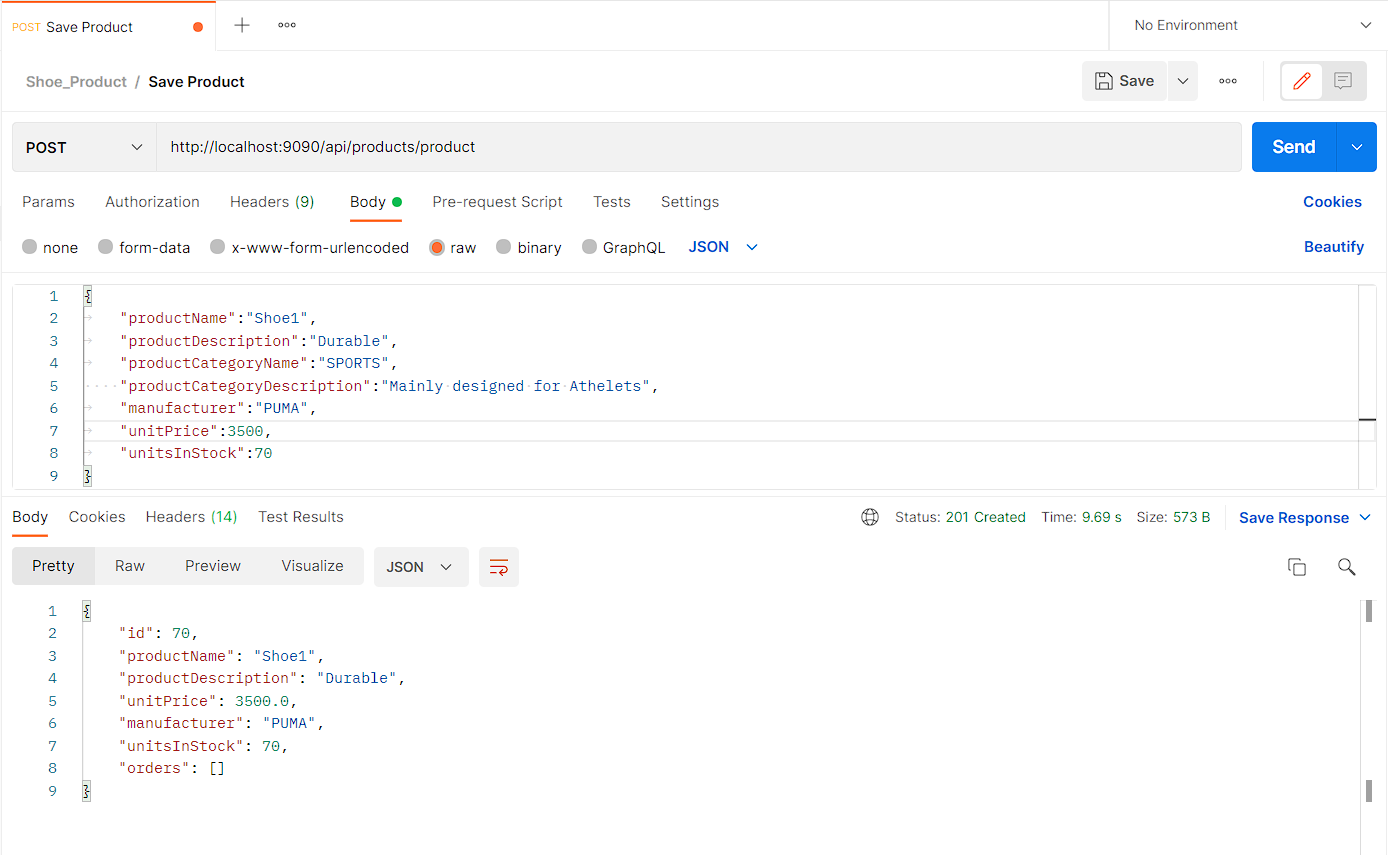
    "unitPrice":3500,

    "unitsInStock":70

}

**Request**

**On Successfully Adding Product**

****

1. **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",

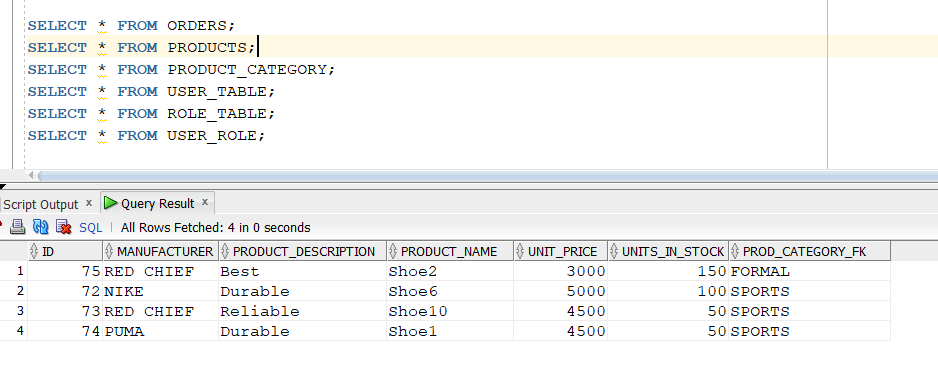
    "manufacturer":"REEBOK",

    "unitPrice":1400,

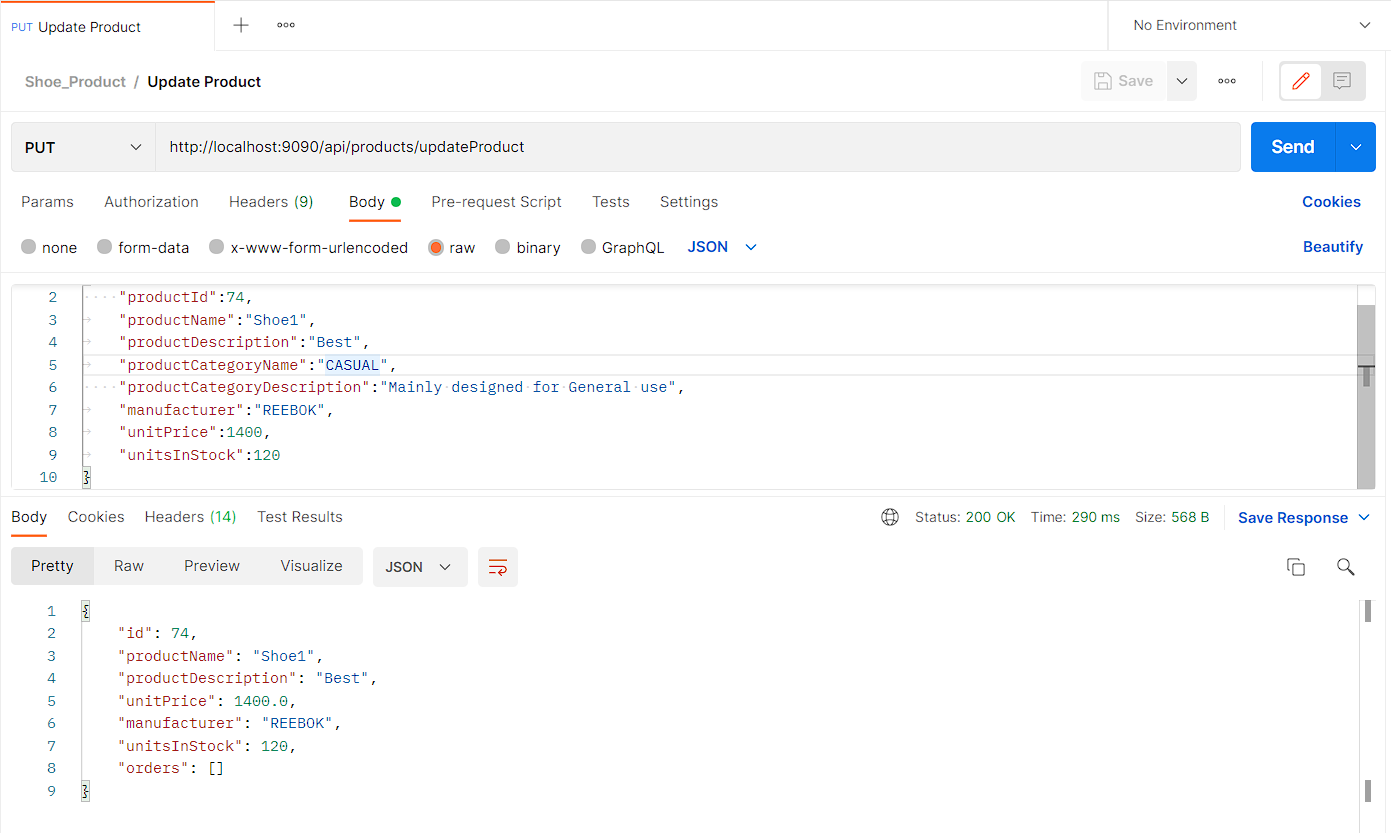
    "unitsInStock":120

}

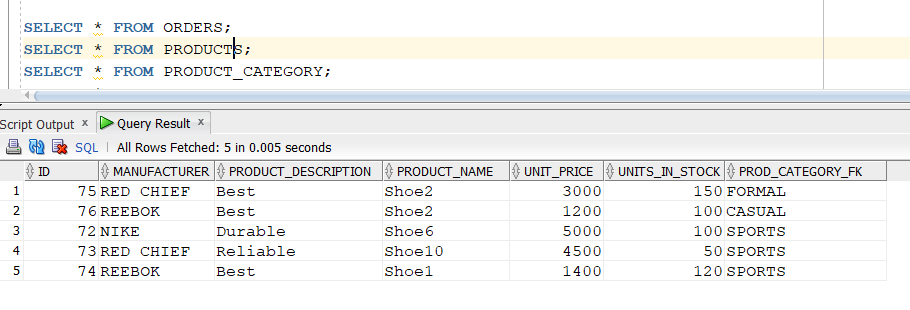
**DB Before Modification**

****

**Product Successfully Modified**

****

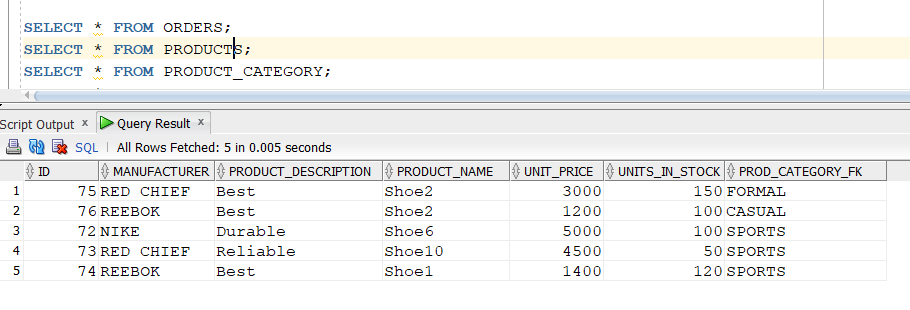
**DB After Modification**

****

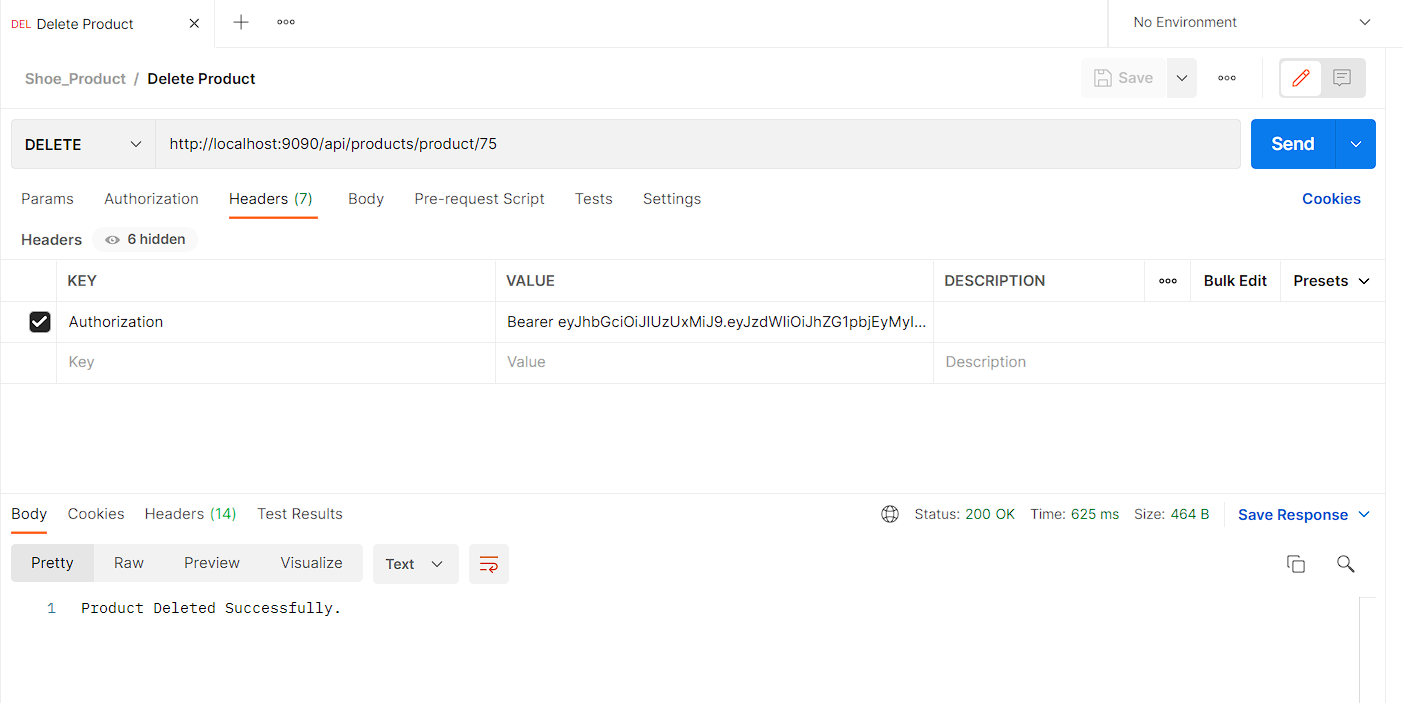
1. **Delete Product Functionality**

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

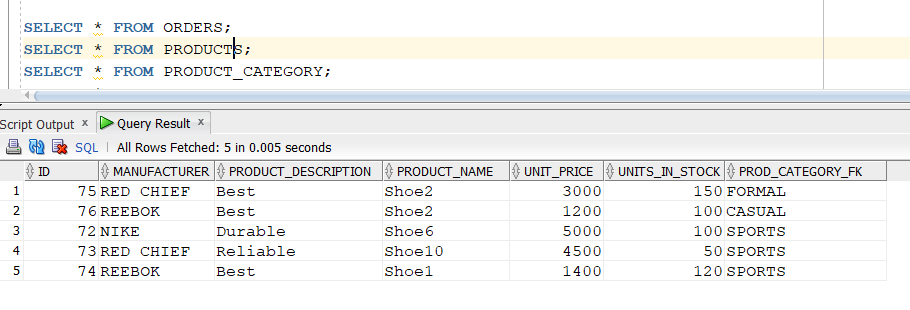
**DB Before Deletion**

****

**On Successful Product Deletion**

****

**DB After Deletion**

****

**B. Login as User**

1. **Place Order Functionality**

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

**JSON Body:**

{

    "totalQuantity":3,

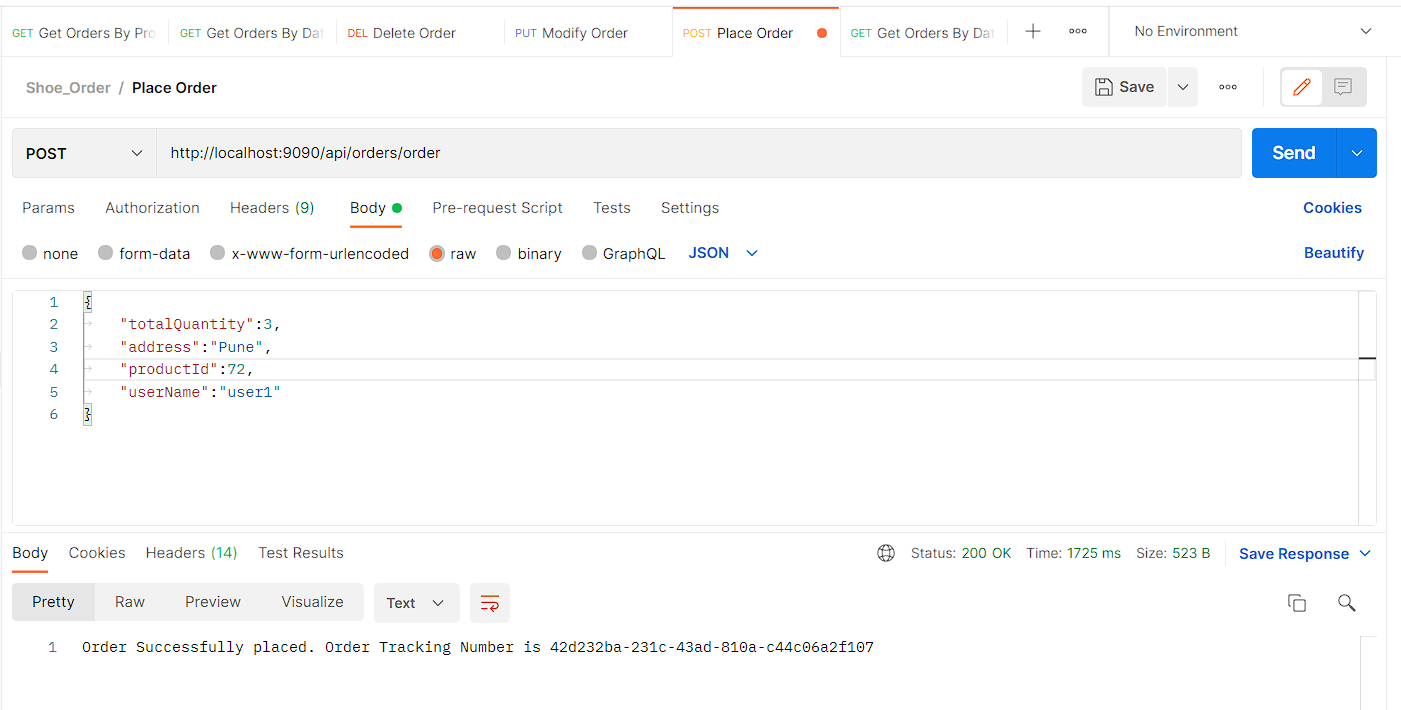
    "address":"Pune",

    "productId":72,

    "userName":"user1"

}

**On Successfully Placing Order**

****

1. **Modify Order Functionality**

**PUT:** http://localhost:9090/api/orders/modifyOrder

**JSON Body:**

{

    "orderId":83,

    "totalQuantity":9,

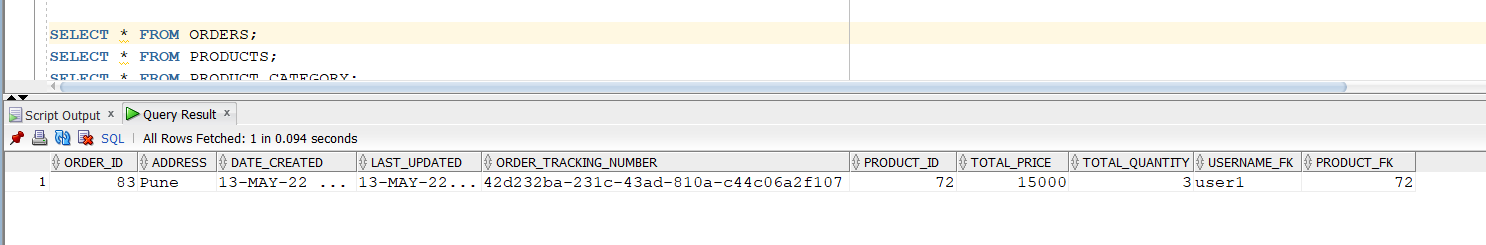
    "address":"Delhi",

    "productId":72,

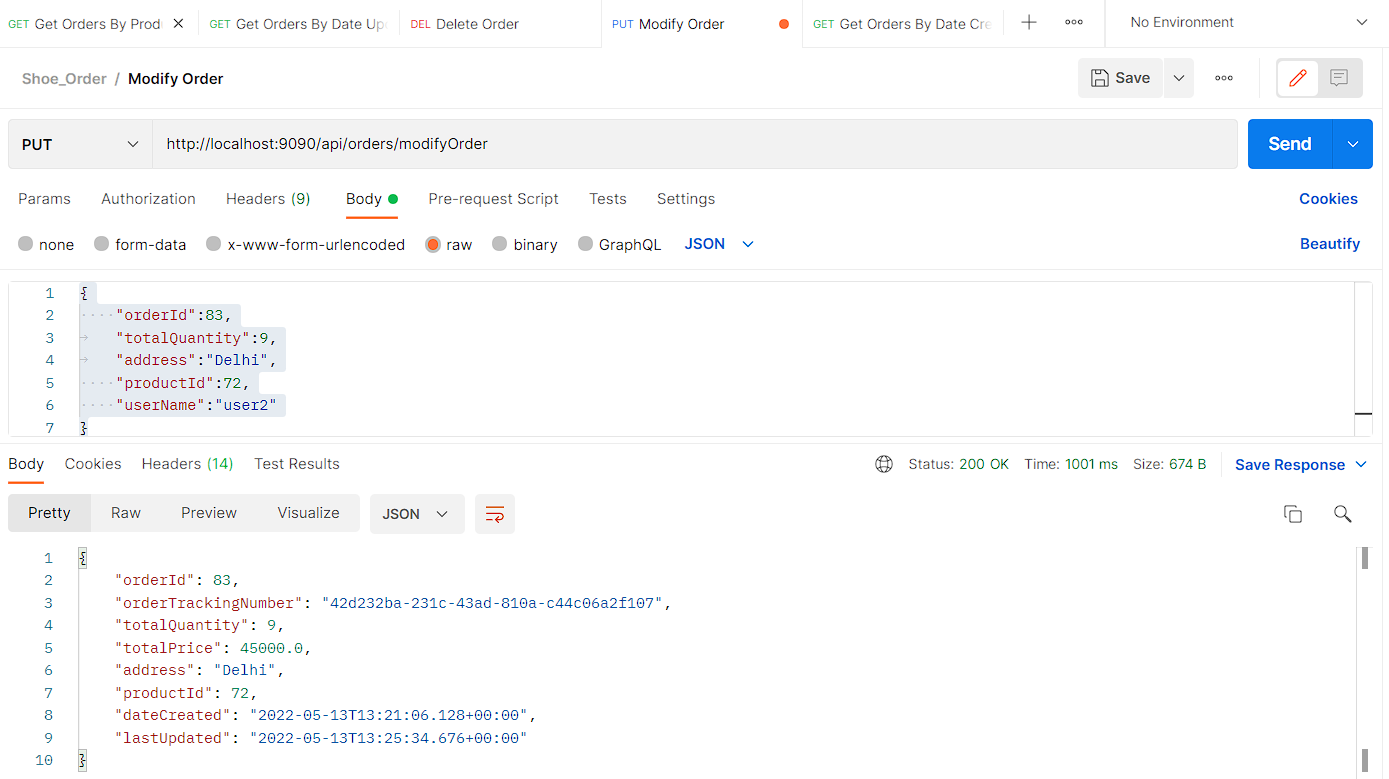
    "userName":"user2"

}

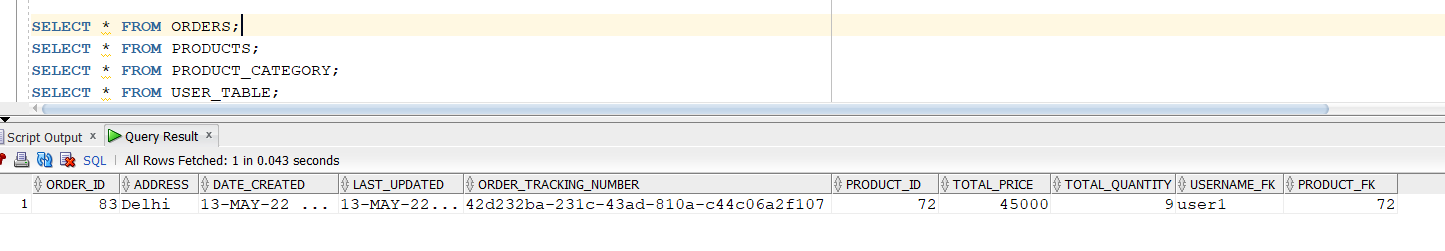
**Before Modifying Order**

****

**On Successfully Modifying Order**

****

**After Modifying Order**

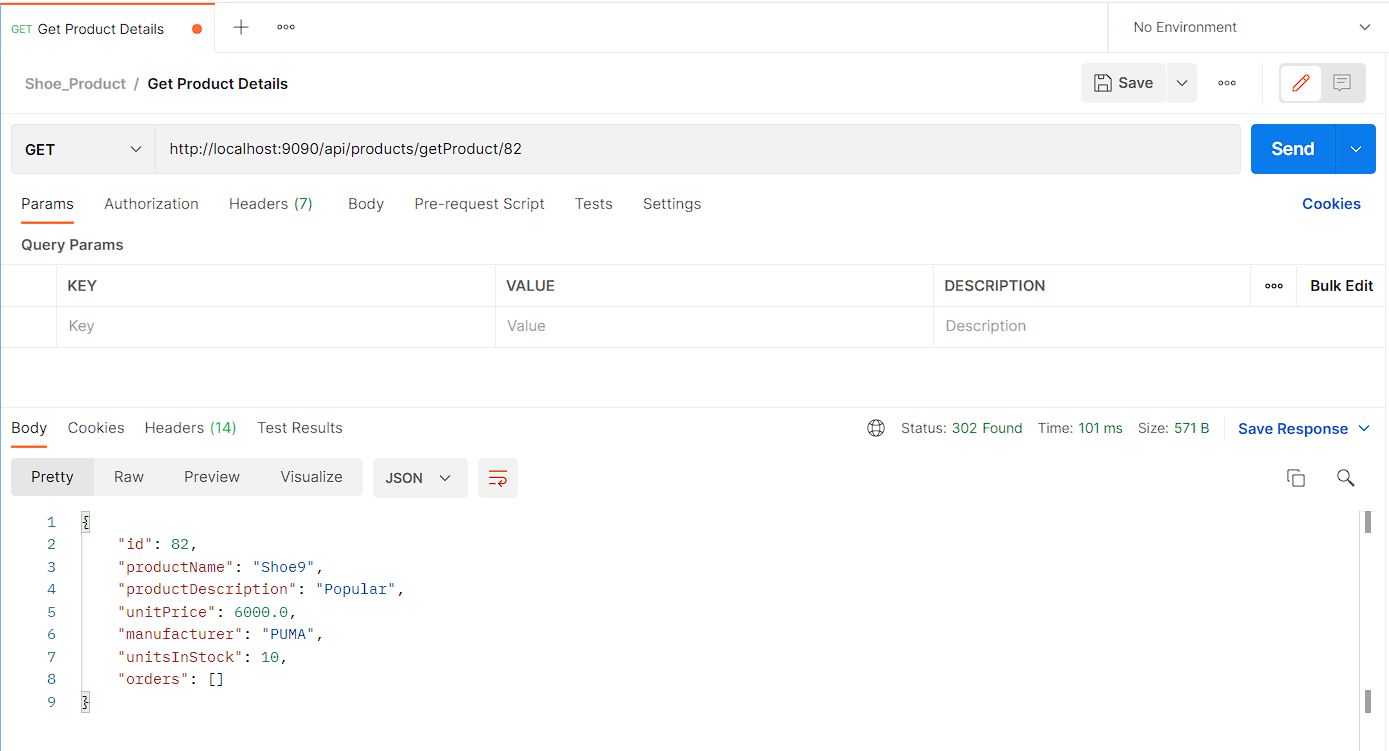
****

**C. Login as Admin/User**

1. **Get Product Details Functionality**

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

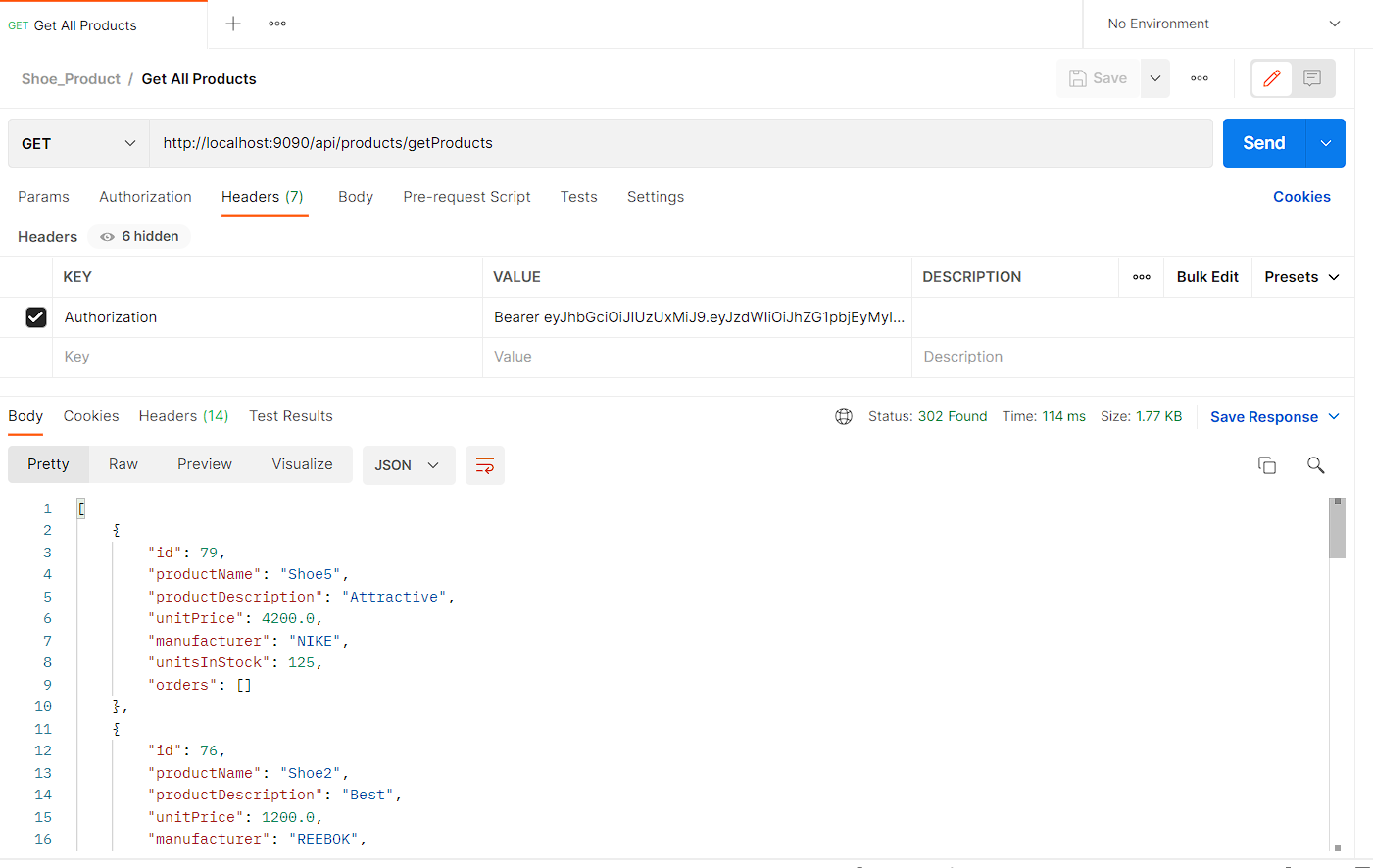
**On Successful Fetching Product Details**

****

1. **Get All Products Functionality**

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

**On Successful Fetching All Products**

****

**Fetched 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": []

    },

    {

        "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,

        "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": []

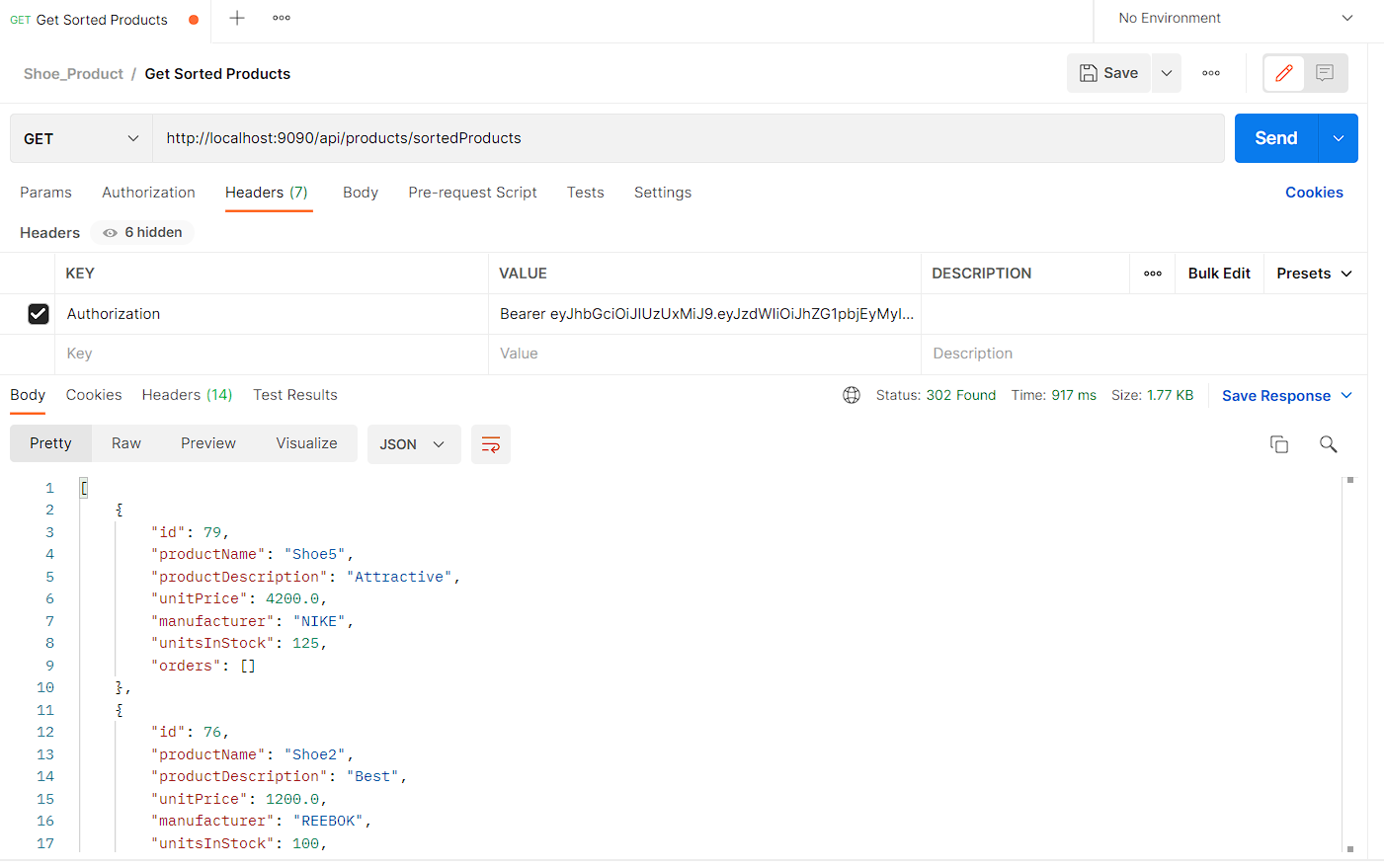
    }

]

1. **Get Products Sorted by Category Functionality**

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

**On Successful Fetching Products Sorted by Category**

****

**Fetched 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": []

    },

    {

        "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,

        "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": []

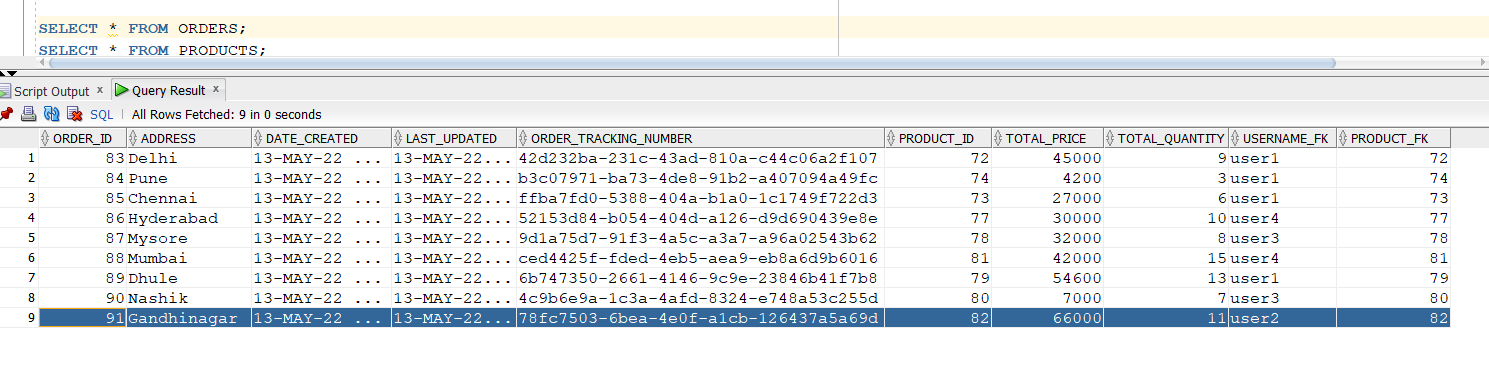
    }

]

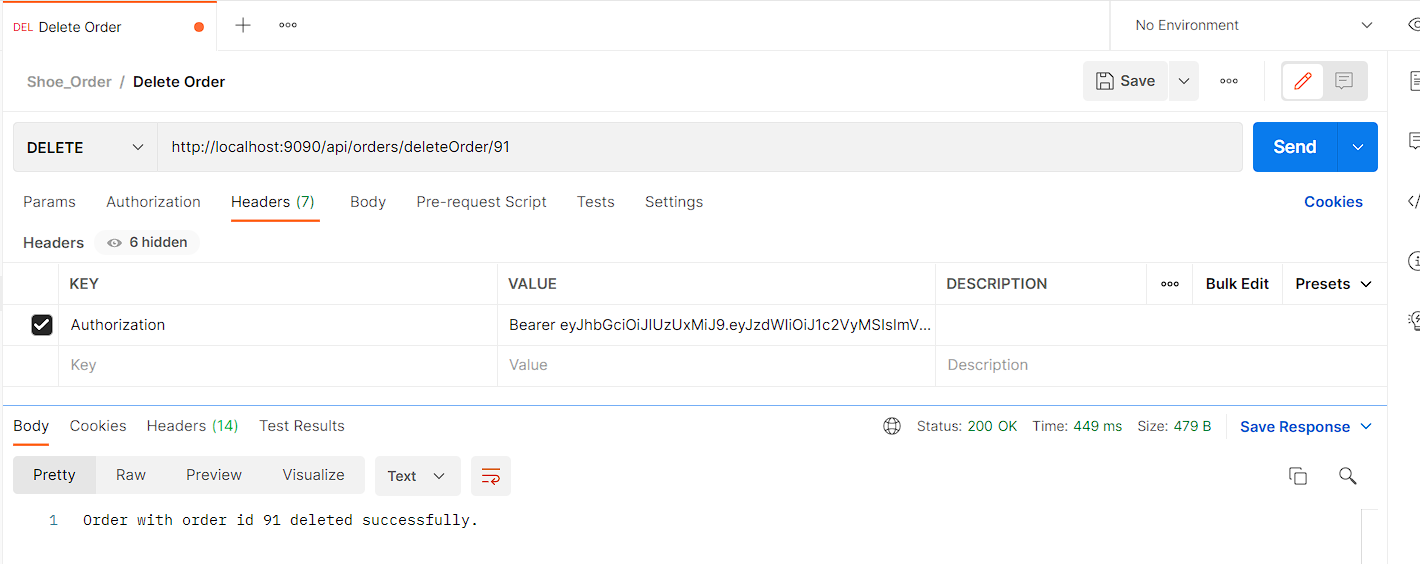
1. **Delete Order Functionality**

**GET:** http://localhost:9090/api/orders/deleteOrder/91

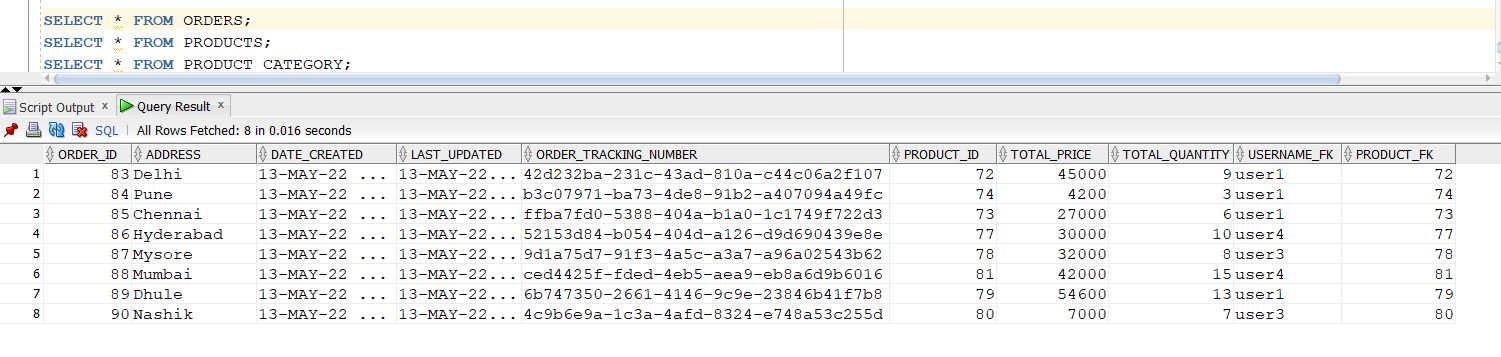
**Before Order Deletion**

****

**On Successful Order Deletion**

****

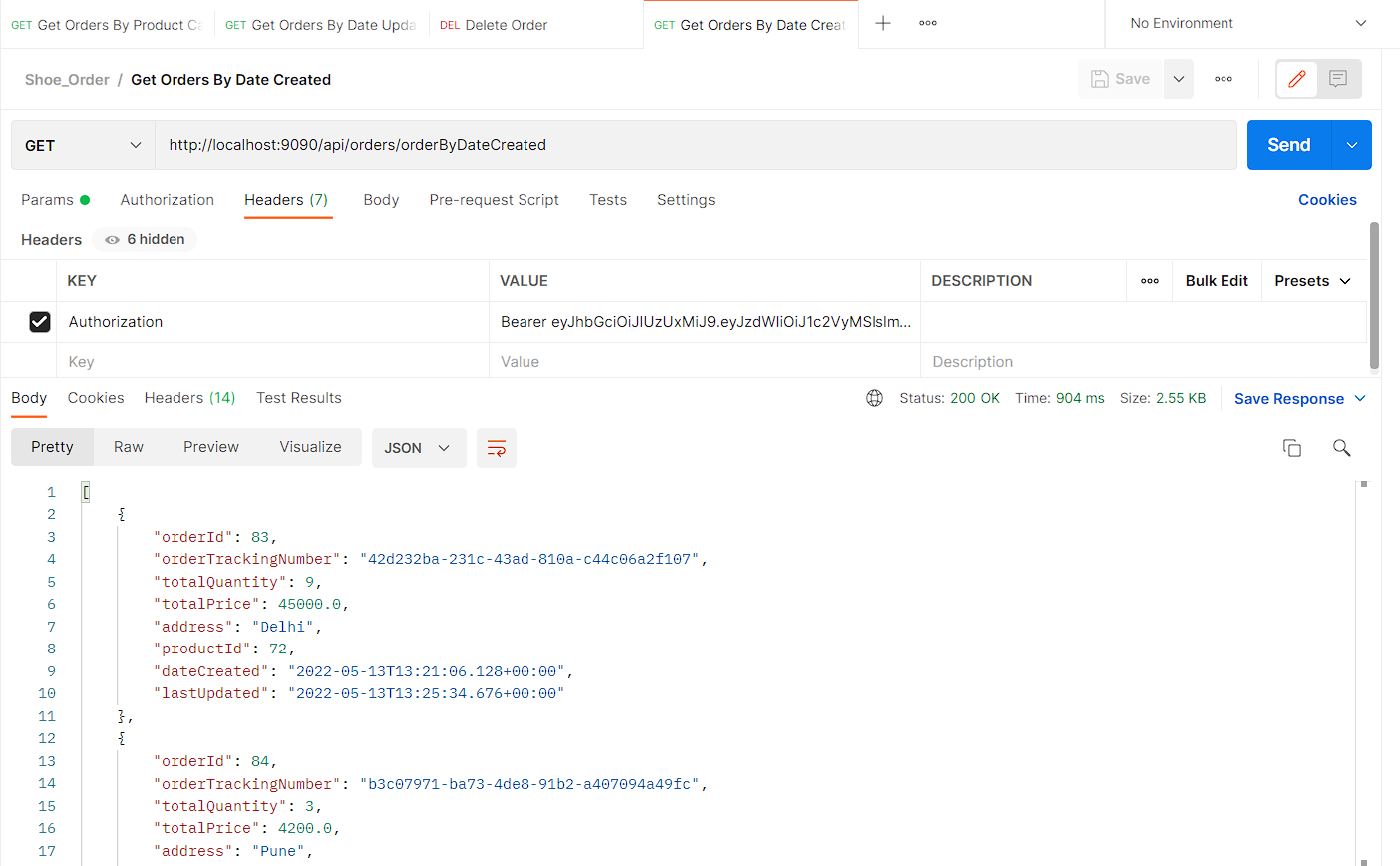
**After Order Deletion**

****

1. **Get Orders Sorted by Date Created Functionality**

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

**On Successful Fetching Orders Sorted by Date Created**

****

**Fetched 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"

    },

    {

        "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": "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",

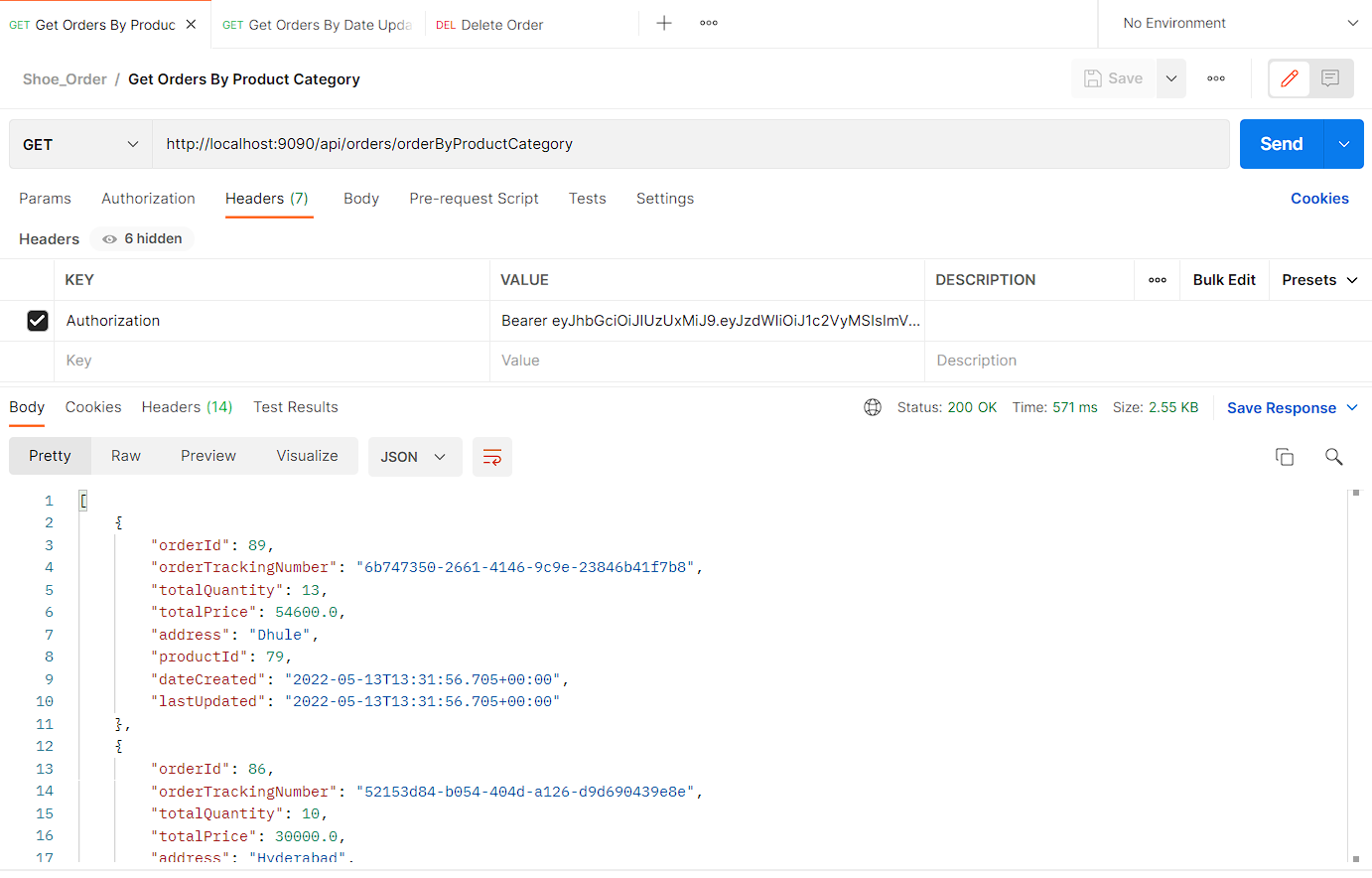
        "lastUpdated": "2022-05-13T13:32:53.652+00:00"

    }

]

1. **Get Orders Sorted by Product Category Functionality**

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

**On Successful Fetching Orders Sorted by Product Category **

**Fetched 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"

    },

    {

        "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"

    },

    {

        "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"

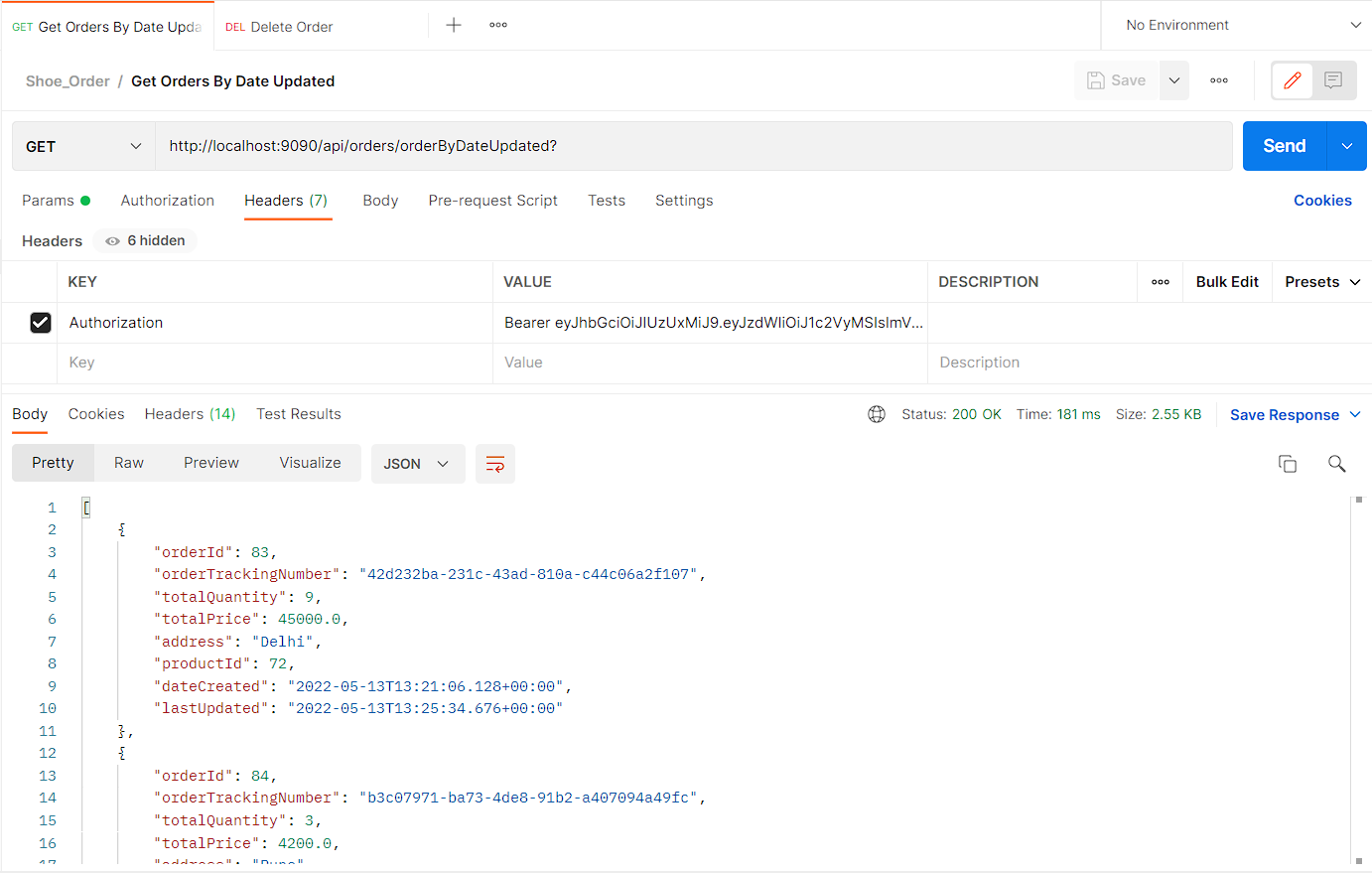
    }

]

1. **Get Orders Sorted by Date Updated Functionality**

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

**On Successful Fetching Orders Sorted by Date Updated**

****

**Fetched 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"

    },

    {

        "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": "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:**
3. Code present in master branch
4. Admin username will be **admin123** and password will be **admin@pass**.
5. Before Running Web Application, please execute below database.sql file which is present is resources path in SQL DB.



1. 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.eyJzdWIiOiJhZG1pbjEyMyIsImV4cCI6MTY1MjQ0OTUxNiwiaWF0IjoxNjUyNDQ1OTE2fQ.jtEtKa6AyrYfBcots\_GktQAMf0sPnmxlMJ\_DnRucemQ3bAyTeGsxmVBItnpCT8sQJbrmQKUVqt3VVX-4tGPGrQ**

1. 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)**

1. **Enhancements –**

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

1. **Unique Selling Points (USP)**

* User Friendly Application
* Versatile and Scalable