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# SportyShoes.com

## RESTful Spring Boot E-Commerce portal with JPA Data Base:

In this project, I developed Restful Spring Boot E-Commerce portal named SportyShoes.com that uses internal memory database i.e., Spring H2 Data Base to store all the information about the products, users who purchased it & this information can be fetched up by date & Customer name as well.

Here, Admin can manage all the products by categorizing them as brand, color, size & price.

Admin can see the purchase list filtered by date & category.

## Tools:

1. Agile-Scrum-Jira
2. Spring Tool Suite | 4
3. Spring boot initializer
4. Postman
5. Git
6. GitHub

## Steps for Execution:

1. Clone the project from the repository

GitHub Link: **https://github.com/SyedFasiHussaini/Phase3_Project_SportyShoes.com.git**

As I have developed the RESTful API, it can be run on postman tool.

2. I have used SWAGGER in my spring boot RESTful API project so that the project documentation can be well understood and can easily be verified.
3. URL for the SWAGGER documentation:

**https://localhost:9200/swagger-ui.html**

4. All the endpoints and example data will be present in that link and an option to try it out, Put the data into which will be in JSON format and simply try it out.

**<u>Headers</u>** **<u>End-Point</u>**

1. **Get/Post/Put to get, add & update all Shoes---------------- /shoes**
2. **Get Shoes by Category:**
    i) **Get shoes by brand ----------------------- /shoes/brand/{brand}**
    ii) **Get shoes by color ------------------------ /shoes/color/{color}**
    iii) **Get shoes by size -------------------------- /shoes/size/{size}**
    iv) **Get shoes by price ------------------------ /shoes/price/{price}**
3. **Get/Delete shoes by Id---------------------------- /shoes/{id}**

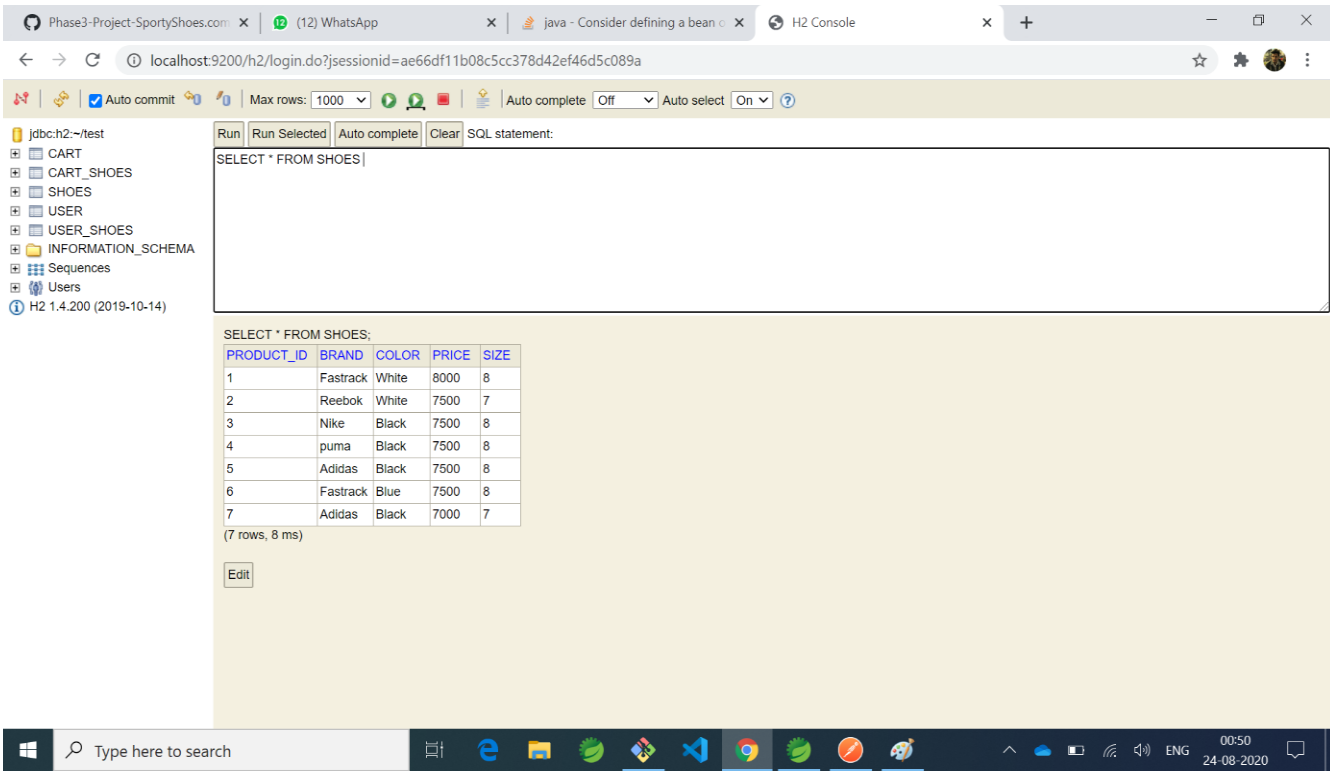
4. **Post/Put to add & update user---------------------- /user**

5. **Get to get all users info. --------------------------- /users**

6. **Get Users by:**
    i) **Get users by userId ------------------------- /user/{userId}**
    ii) **Get users by username-------------------- /user/username/{userName}**
    iii) **Get users by userAge ---------------------- /user/userAge/{userAge}**
7. **Get/Delete users by id ------------------------------ /user/{userId}**

## Screen Shots of the output result:

1. **Database Storing all the different versions of products**



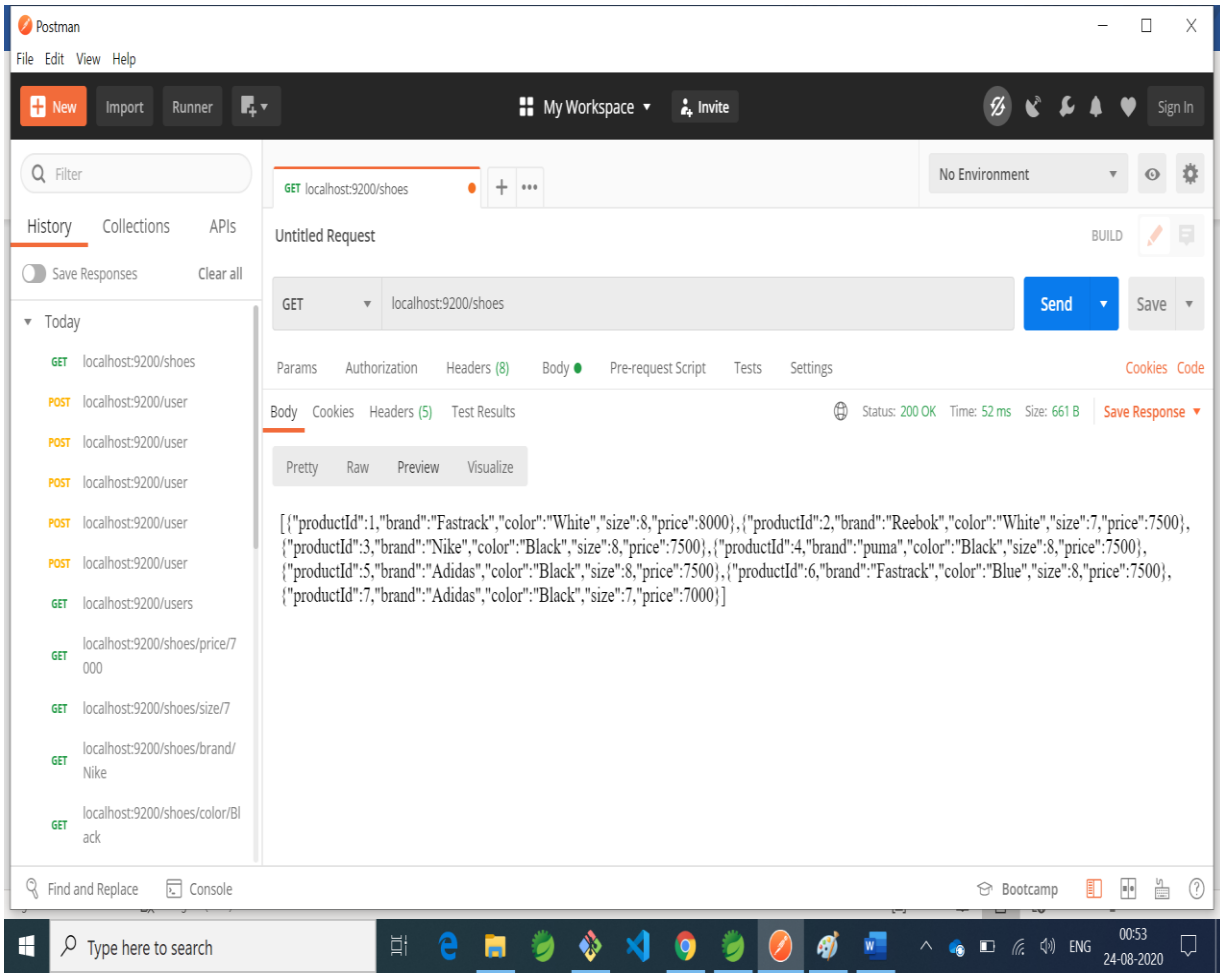
```
SELECT * FROM SHOES
```

SELECT * FROM SHOES;

| PRODUCT_ID | BRAND | COLOR | PRICE | SIZE |
|---|---|---|---|---|
| 1 | Fastrack | White | 8000 | 8 |
| 2 | Reebok | White | 7500 | 7 |
| 3 | Nike | Black | 7500 | 8 |
| 4 | puma | Black | 7500 | 8 |
| 5 | Adidas | Black | 7500 | 8 |
| 6 | Fastrack | Blue | 7500 | 8 |
| 7 | Adidas | Black | 7000 | 7 |

(7 rows, 8 ms)

2. **Get method that fetches all the product details shown above in h2 DB in JSON format**



GET localhost:9200/shoes

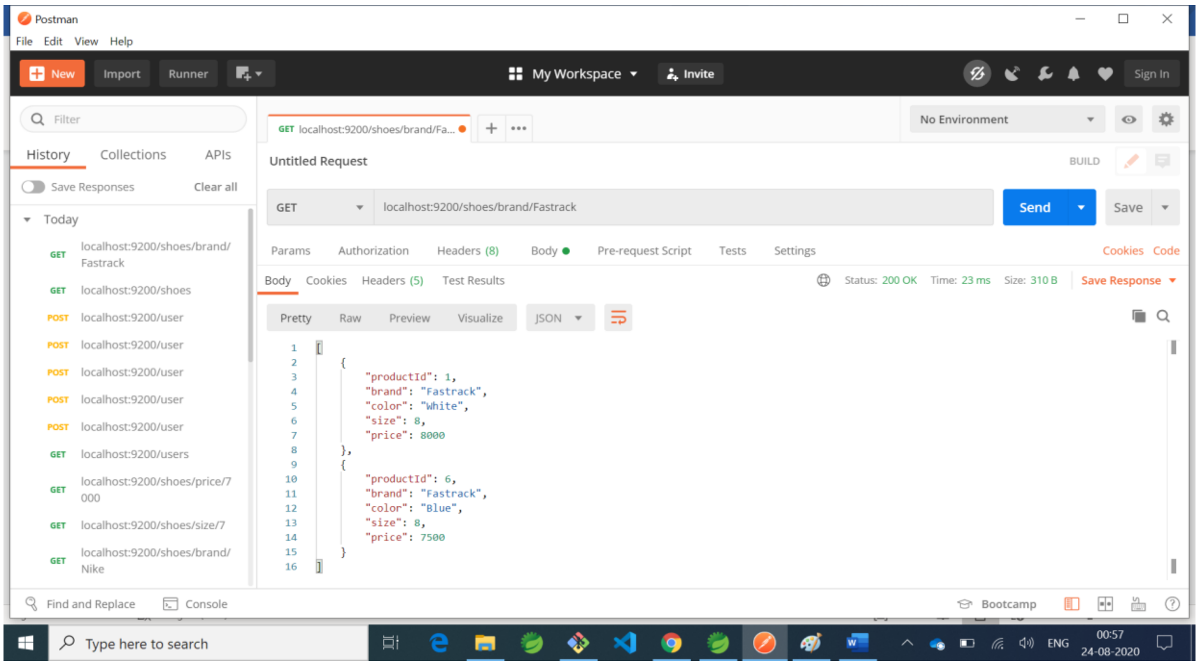
Body Cookies Headers (5) Test Results    Status: 200 OK Time: 52 ms Size: 661 B

```
[{"productId":1,"brand":"Fastrack","color":"White","size":8,"price":8000},{"productId":2,"brand":"Reebok","color":"White","size":7,"price":7500},
{"productId":3,"brand":"Nike","color":"Black","size":8,"price":7500},{"productId":4,"brand":"puma","color":"Black","size":8,"price":7500},
{"productId":5,"brand":"Adidas","color":"Black","size":8,"price":7500},{"productId":6,"brand":"Fastrack","color":"Blue","size":8,"price":7500},
{"productId":7,"brand":"Adidas","color":"Black","size":7,"price":7000}]
```

History:
- GET localhost:9200/shoes
- POST localhost:9200/user
- POST localhost:9200/user
- POST localhost:9200/user
- POST localhost:9200/user
- POST localhost:9200/user
- GET localhost:9200/users
- GET localhost:9200/shoes/price/7000
- GET localhost:9200/shoes/size/7
- GET localhost:9200/shoes/brand/Nike
- GET localhost:9200/shoes/color/Black

00:53 24-08-2020

**3. Get method that fetches all the products by brand**



GET localhost:9200/shoes/brand/Fastrack

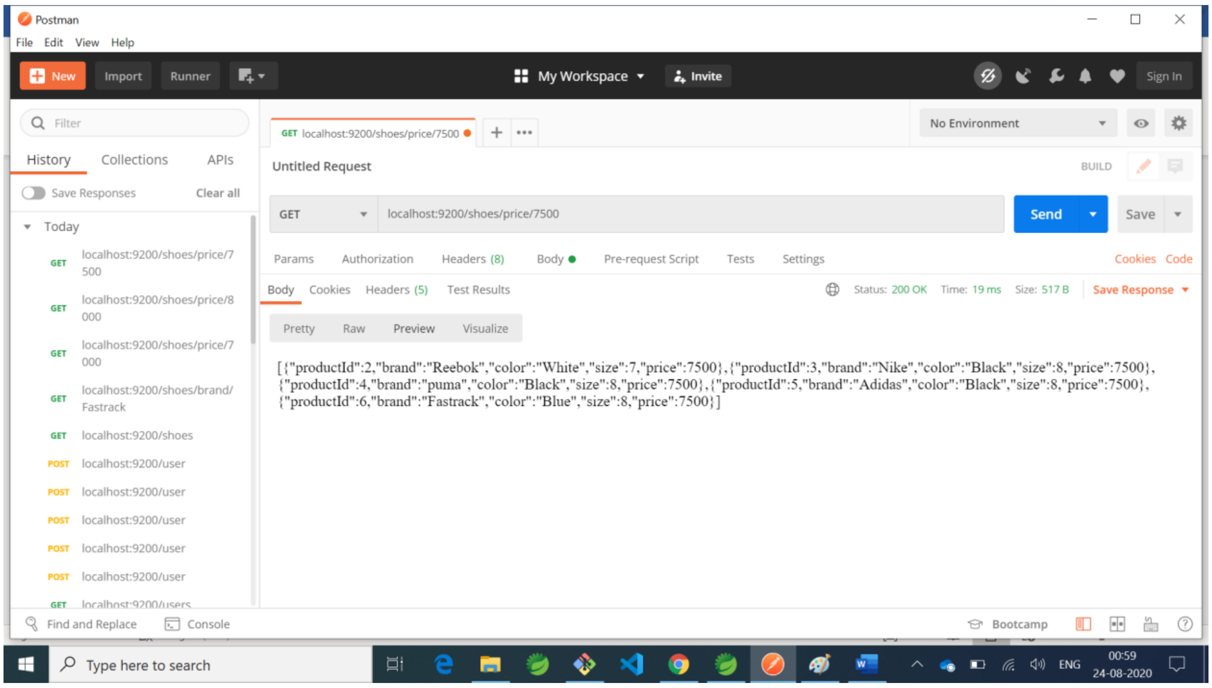
Body Cookies Headers (5) Test Results    Status: 200 OK Time: 23 ms Size: 310 B

```
[
    {
        "productId": 1,
        "brand": "Fastrack",
        "color": "White",
        "size": 8,
        "price": 8000
    },
    {
        "productId": 6,
        "brand": "Fastrack",
        "color": "Blue",
        "size": 8,
        "price": 7500
    }
]
```

History:
- GET localhost:9200/shoes/brand/Fastrack
- GET localhost:9200/shoes
- POST localhost:9200/user
- POST localhost:9200/user
- POST localhost:9200/user
- POST localhost:9200/user
- POST localhost:9200/user
- GET localhost:9200/users
- GET localhost:9200/shoes/price/7000
- GET localhost:9200/shoes/size/7
- GET localhost:9200/shoes/brand/Nike

00:57 24-08-2020

**4. Get Method that fetches based on price:**



GET localhost:9200/shoes/price/7500

Untitled Request

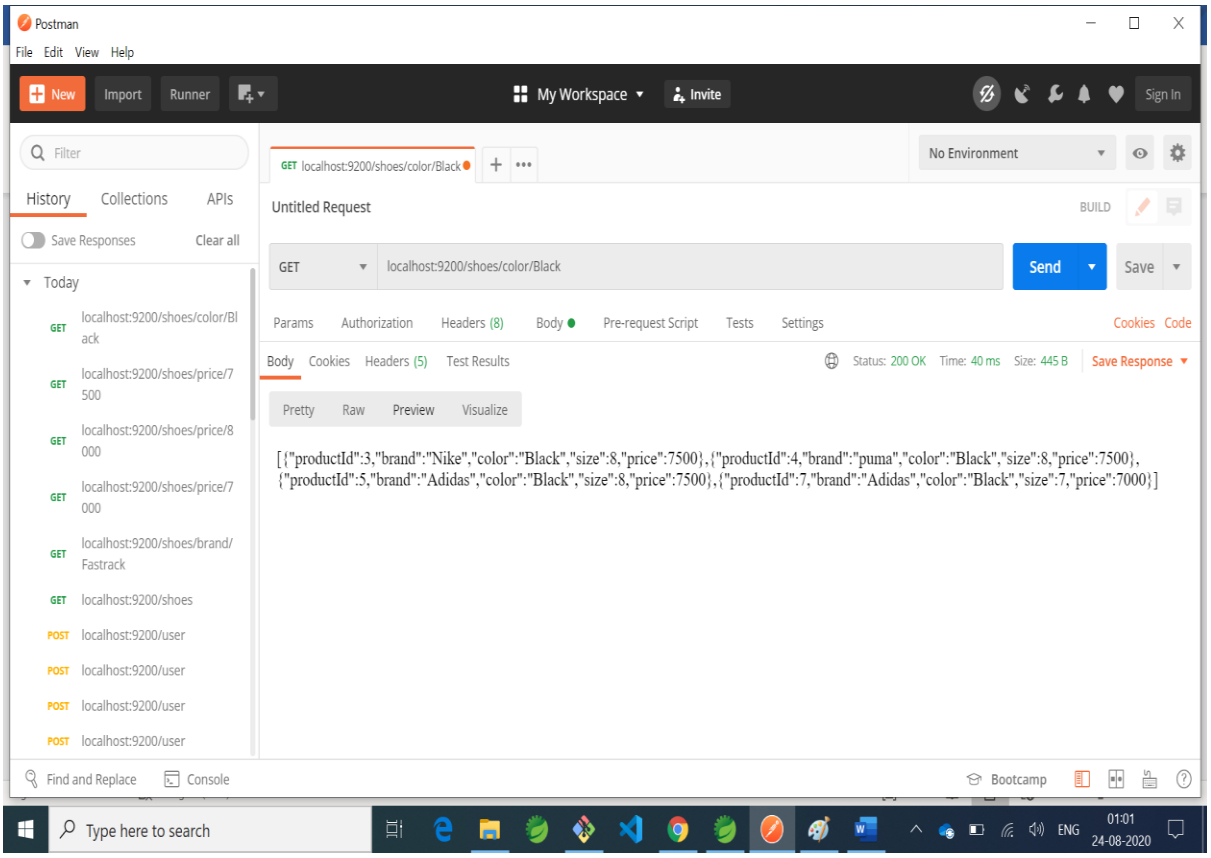
GET localhost:9200/shoes/price/7500

Status: 200 OK Time: 19 ms Size: 517 B

```
[{"productId":2,"brand":"Reebok","color":"White","size":7,"price":7500},{"productId":3,"brand":"Nike","color":"Black","size":8,"price":7500},
{"productId":4,"brand":"puma","color":"Black","size":8,"price":7500},{"productId":5,"brand":"Adidas","color":"Black","size":8,"price":7500},
{"productId":6,"brand":"Fastrack","color":"Blue","size":8,"price":7500}]
```

History:
GET localhost:9200/shoes/price/7500
GET localhost:9200/shoes/price/8000
GET localhost:9200/shoes/price/7000
GET localhost:9200/shoes/brand/Fastrack
GET localhost:9200/shoes
POST localhost:9200/user
POST localhost:9200/user
POST localhost:9200/user
POST localhost:9200/user
POST localhost:9200/user
GET localhost:9200/users

## 5. Get Method that fetches based on color:



GET localhost:9200/shoes/color/Black

Untitled Request

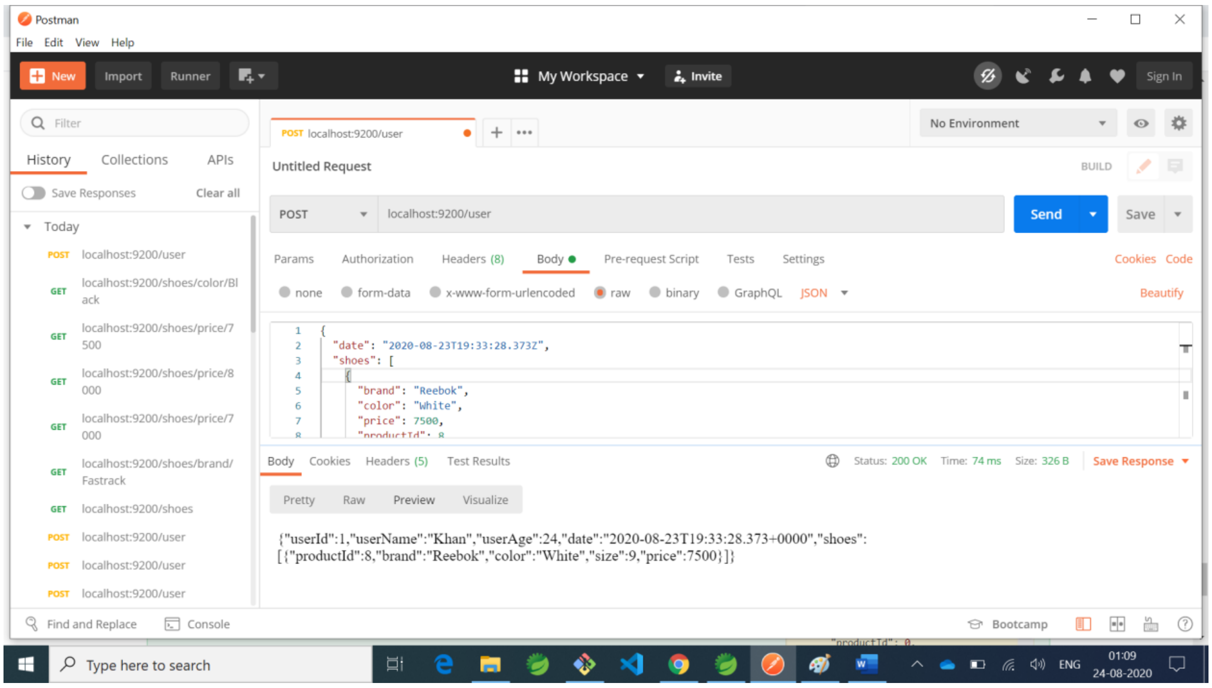
GET localhost:9200/shoes/color/Black

Status: 200 OK Time: 40 ms Size: 445 B

```
[{"productId":3,"brand":"Nike","color":"Black","size":8,"price":7500},{"productId":4,"brand":"puma","color":"Black","size":8,"price":7500},
{"productId":5,"brand":"Adidas","color":"Black","size":8,"price":7500},{"productId":7,"brand":"Adidas","color":"Black","size":7,"price":7000}]
```

History:
GET localhost:9200/shoes/color/Black
GET localhost:9200/shoes/price/7500
GET localhost:9200/shoes/price/8000
GET localhost:9200/shoes/price/7000
GET localhost:9200/shoes/brand/Fastrack
GET localhost:9200/shoes
POST localhost:9200/user
POST localhost:9200/user
POST localhost:9200/user
POST localhost:9200/user

## 6. User and Shoes detail added to h2 DB



POST localhost:9200/user

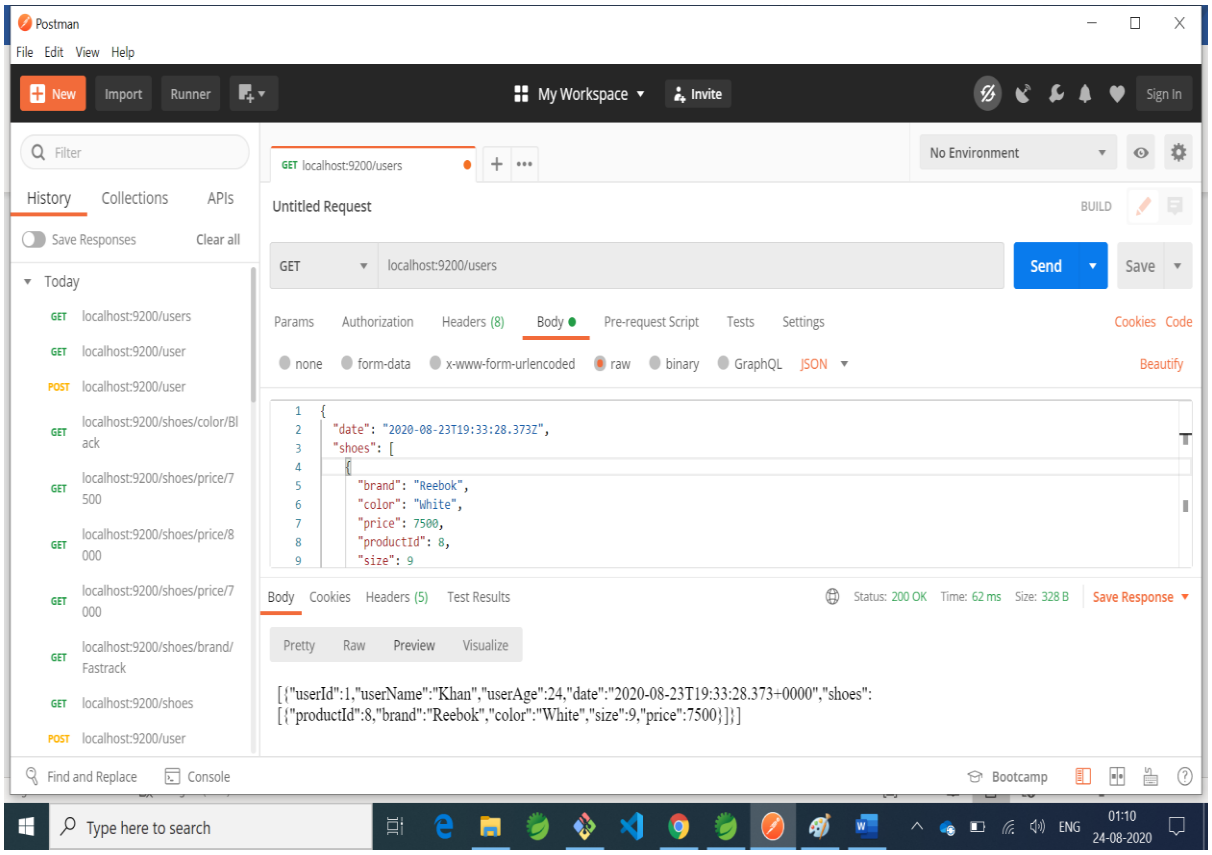
Body: raw JSON

```
{
  "date": "2020-08-23T19:33:28.373Z",
  "shoes": [
    {
      "brand": "Reebok",
      "color": "White",
      "price": 7500,
      "productId": 8,
```

Status: 200 OK Time: 74 ms Size: 326 B

```
{"userId":1,"userName":"Khan","userAge":24,"date":"2020-08-23T19:33:28.373+0000","shoes":
[{"productId":8,"brand":"Reebok","color":"White","size":9,"price":7500}]}
```

## 7. User and product details fetched:



GET localhost:9200/users

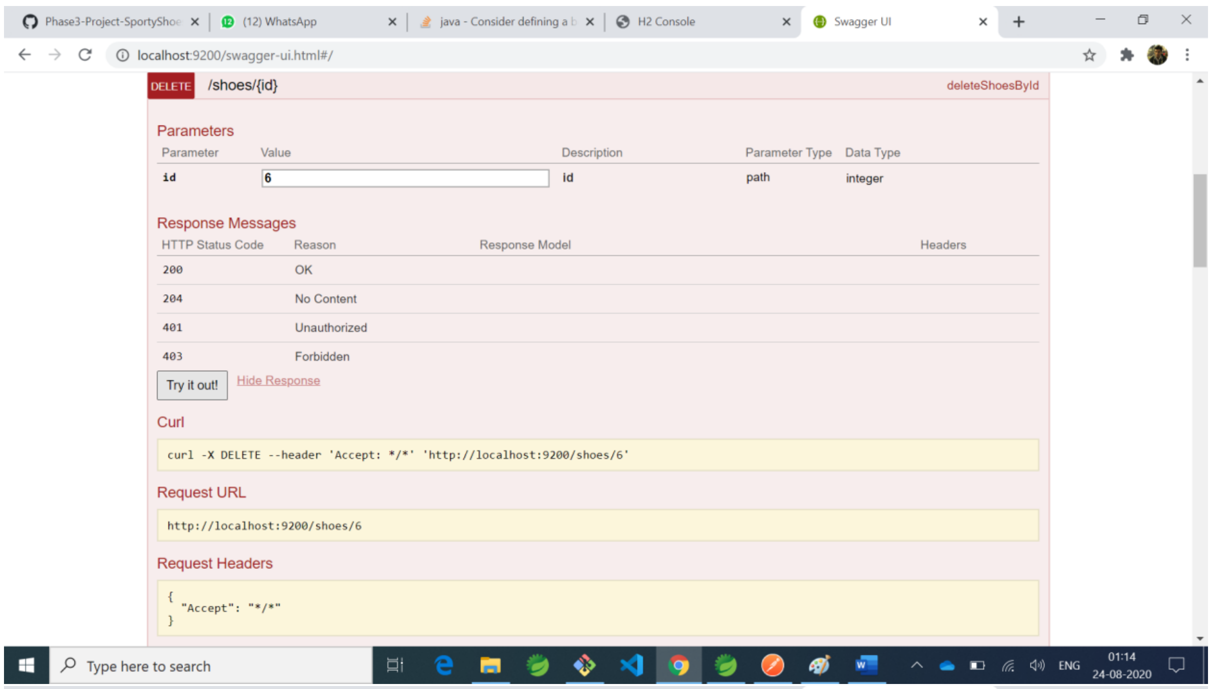
Body: raw JSON

```
{
  "date": "2020-08-23T19:33:28.373Z",
  "shoes": [
    {
      "brand": "Reebok",
      "color": "White",
      "price": 7500,
      "productId": 8,
      "size": 9
```

Status: 200 OK Time: 62 ms Size: 328 B

```
[{"userId":1,"userName":"Khan","userAge":24,"date":"2020-08-23T19:33:28.373+0000","shoes":
[{"productId":8,"brand":"Reebok","color":"White","size":9,"price":7500}]}]
```

## 8. Documentation that shows status 200 ok for delete method


Phase3-Project-SportyShoe
(12) WhatsApp
java - Consider defining a b
H2 Console
Swagger UI
localhost:9200/swagger-ui.html#/
Type here to search
ENG
01:14
24-08-2020

DELETE /shoes/{id} deleteShoesById

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|---|---|---|---|---|
| id | 6 | id | path | integer |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|---|---|---|---|
| 200 | OK | | |
| 204 | No Content | | |
| 401 | Unauthorized | | |
| 403 | Forbidden | | |

Try it out! Hide Response

Curl

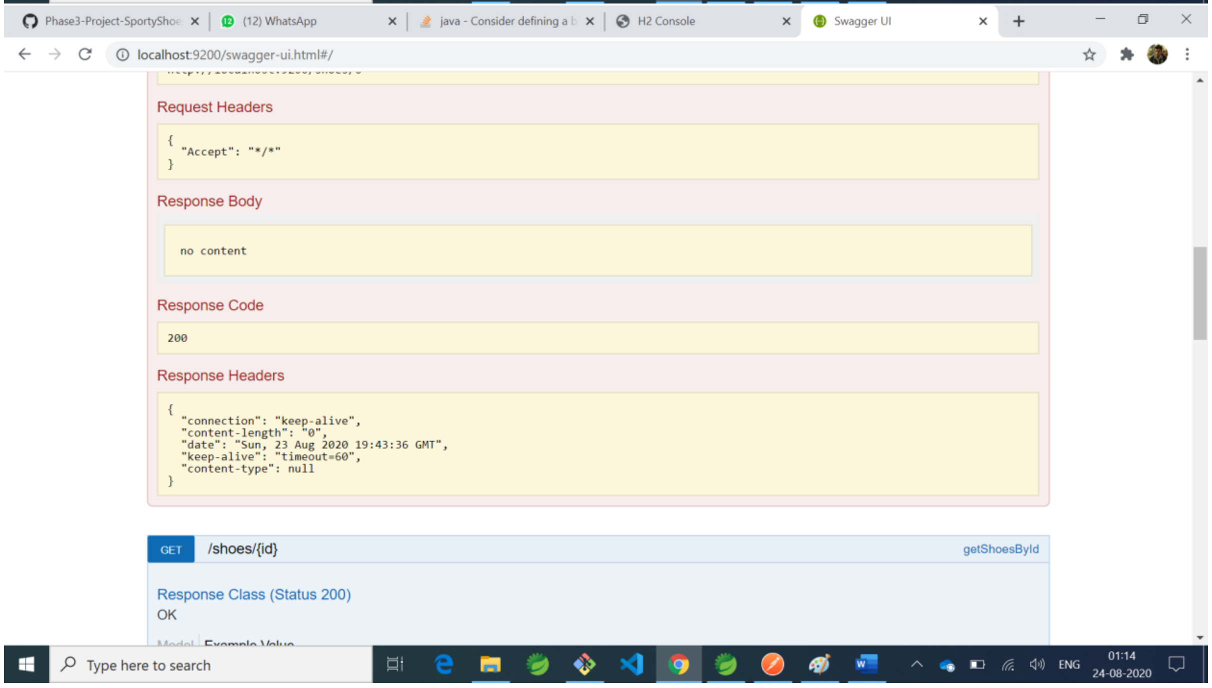
```
curl -X DELETE --header 'Accept: */*' 'http://localhost:9200/shoes/6'
```

Request URL

```
http://localhost:9200/shoes/6
```

Request Headers

```
{
  "Accept": "*/*"
}
```


Phase3-Project-SportyShoe
(12) WhatsApp
java - Consider defining a b
H2 Console
Swagger UI
localhost:9200/swagger-ui.html#/
Type here to search
ENG
01:14
24-08-2020

Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

```
no content
```

Response Code

```
200
```

Response Headers

```
{
  "connection": "keep-alive",
  "content-length": "0",
  "date": "Sun, 23 Aug 2020 19:43:36 GMT",
  "keep-alive": "timeout=60",
  "content-type": null
}
```

GET /shoes/{id} getShoesById

Response Class (Status 200)

OK

Model Example Value