Sporty Shoes

Project Developer: **Suraj Jaiswal**
The code for the project is hosted on:

This document contains the following sections:

- Sprint Planning
- Core Concepts used in project
- Product capabilities and source code
- Conclusion

Sprint Planning and Task Completion

Note: A separate document for sprint planning is attached to the Zip.

The project is planned to be completed in two Sprints. The task assumed to be completed are:

Sprint 1:

- Flow chart of the application
- Initializing Git repository to track changes of development
- Writing the source code

Sprint 2:

- Testing the program with various user inputs
- Pushing project to GitHub
- Creating documentation

Core Concepts Used in the Project

- Spring
- Spring Boot
- JPA
- Postman
- Exception Handling
- Github

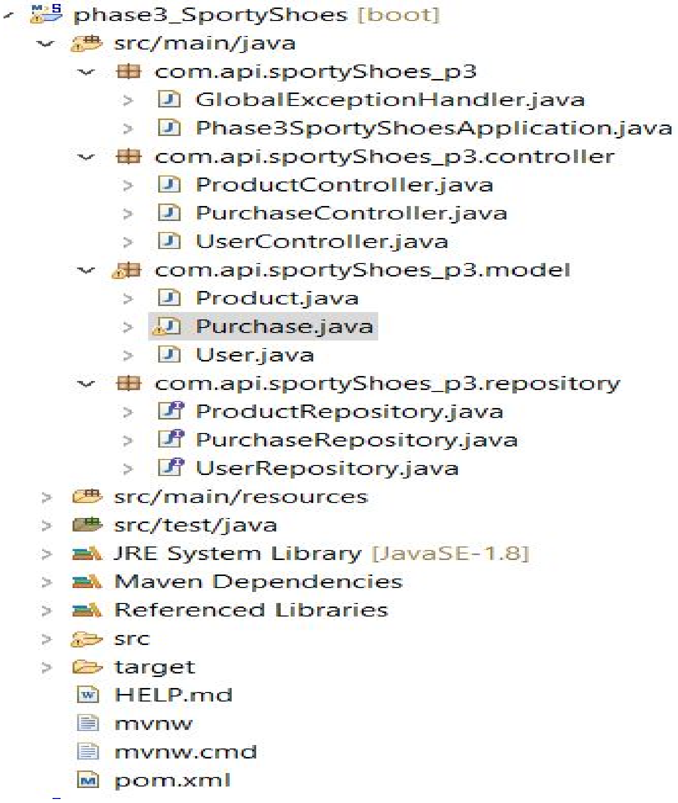
Product Capabilities

The application has the following capabilities:

1. Sporty Shoes Application
2. Sporty Shoes Controller
    2.1. ProductController
    2.2. PurchaseController
    2.3. UserController
3. Sporty Shoes Model
    3.1. ProductModel
    3.2. PurchaseModel
    3.3. UserModel
4. Sporty Shoes Repository
    4.1. ProductRepository
    4.2. UserRepository
    4.3. PurchaseRepository

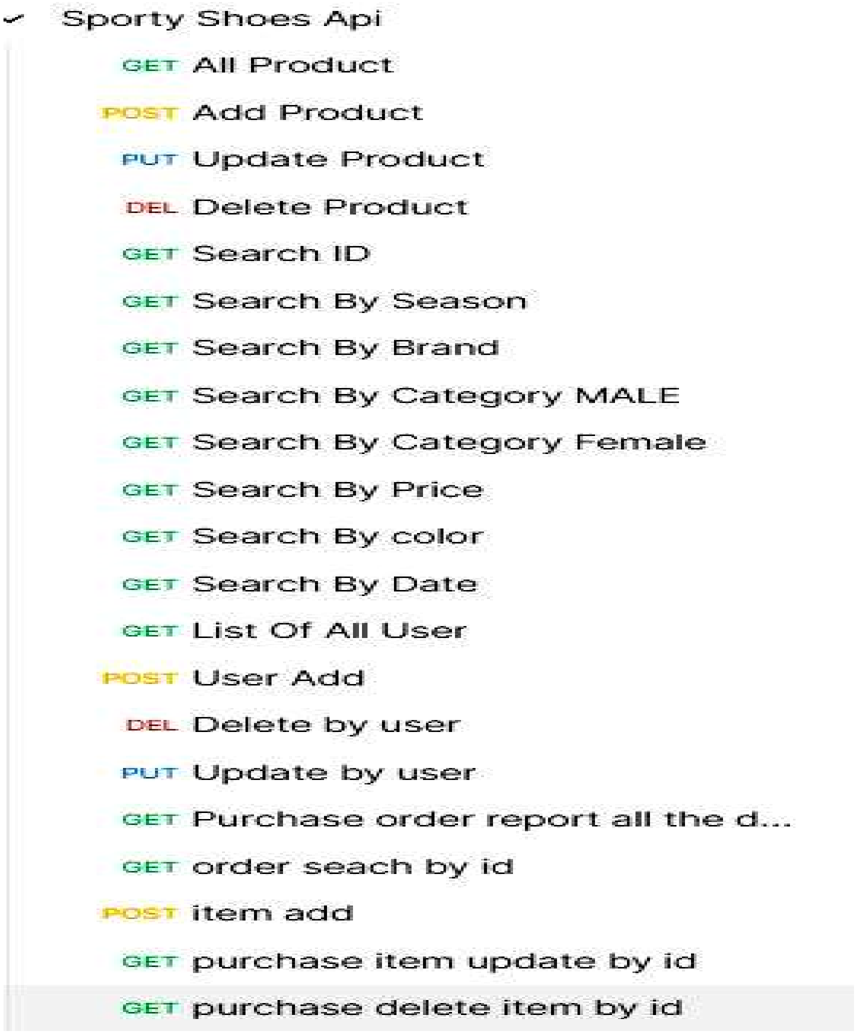
Source code for each of the capabilities with output is shown below:
Note: Complete source code, please check zip/Git Repository for reference.

Spring Project :



```
phase3_SportyShoes [boot]
  src/main/java
    com.api.sportyShoes_p3
      > GlobalExceptionHandler.java
      > Phase3SportyShoesApplication.java
    com.api.sportyShoes_p3.controller
      > ProductController.java
      > PurchaseController.java
      > UserController.java
    com.api.sportyShoes_p3.model
      > Product.java
      > Purchase.java
      > User.java
    com.api.sportyShoes_p3.repository
      > ProductRepository.java
      > PurchaseRepository.java
      > UserRepository.java
  > src/main/resources
  > src/test/java
  > JRE System Library [JavaSE-1.8]
  > Maven Dependencies
  > Referenced Libraries
  > src
  > target
    HELP.md
    mvnw
    mvnw.cmd
    pom.xml
```

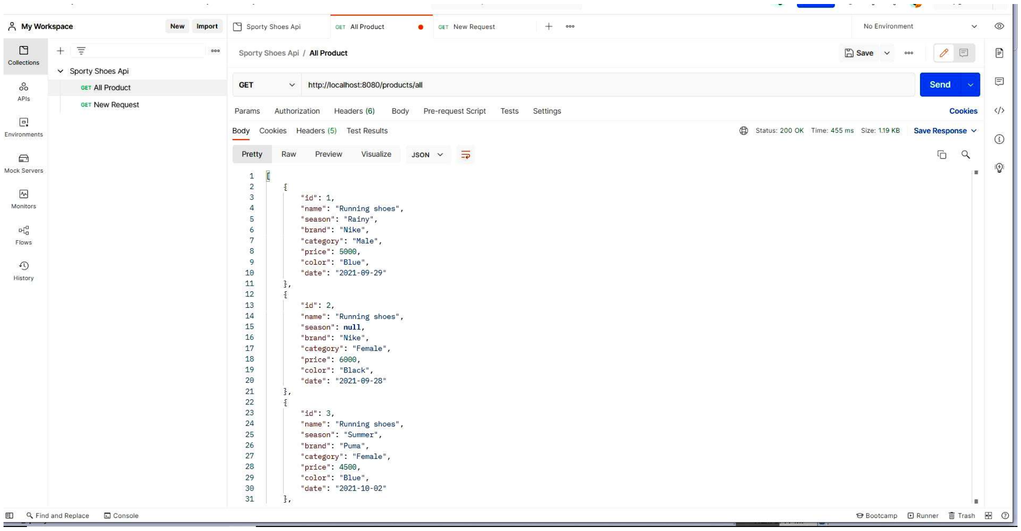
PostMan Application All the Sporty Shoes Api



⌄ Sporty Shoes Api

- GET All Product
- POST Add Product
- PUT Update Product
- DEL Delete Product
- GET Search ID
- GET Search By Season
- GET Search By Brand
- GET Search By Category MALE
- GET Search By Category Female
- GET Search By Price
- GET Search By color
- GET Search By Date
- GET List Of All User
- POST User Add
- DEL Delete by user
- PUT Update by user
- GET Purchase order report all the d...
- GET order seach by id
- POST item add
- GET purchase item update by id
- GET purchase delete item by id

Postman Output All product:



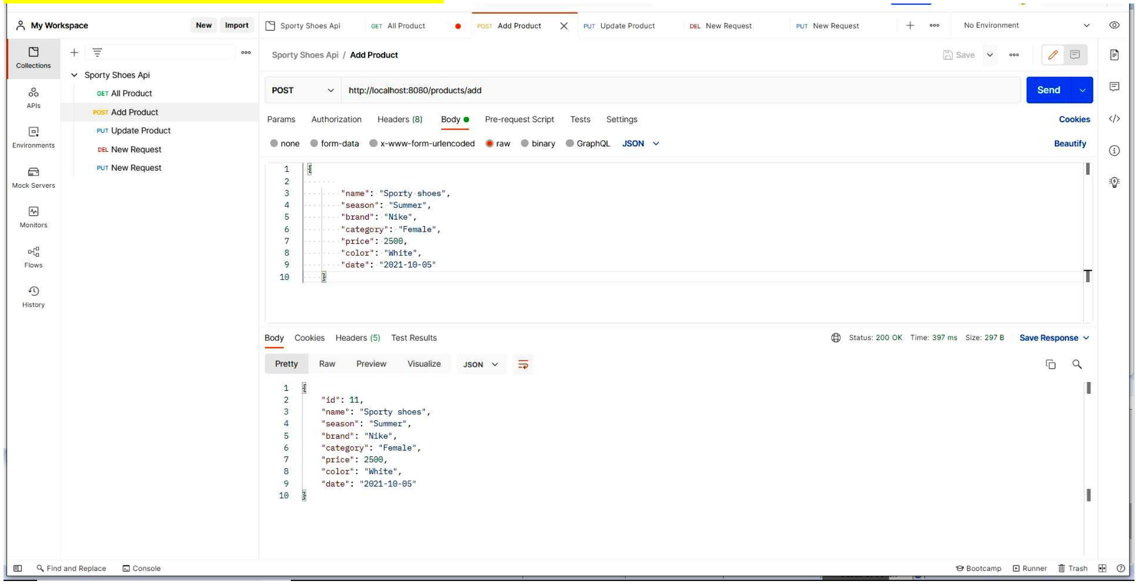
Sporty Shoes Api / All Product

GET http://localhost:8080/products/all

Body — Status: 200 OK Time: 455 ms Size: 1.19 KB

```
[
    {
        "id": 1,
        "name": "Running shoes",
        "season": "Rainy",
        "brand": "Nike",
        "category": "Male",
        "price": 5000,
        "color": "Blue",
        "date": "2021-09-29"
    },
    {
        "id": 2,
        "name": "Running shoes",
        "season": null,
        "brand": "Nike",
        "category": "Female",
        "price": 6000,
        "color": "Black",
        "date": "2021-09-28"
    },
    {
        "id": 3,
        "name": "Running shoes",
        "season": "Summer",
        "brand": "Puma",
        "category": "Female",
        "price": 4500,
        "color": "Blue",
        "date": "2021-10-02"
    },
```

Add Product Postman Output:



Sporty Shoes Api / Add Product

POST http://localhost:8080/products/add

Body: ● raw JSON

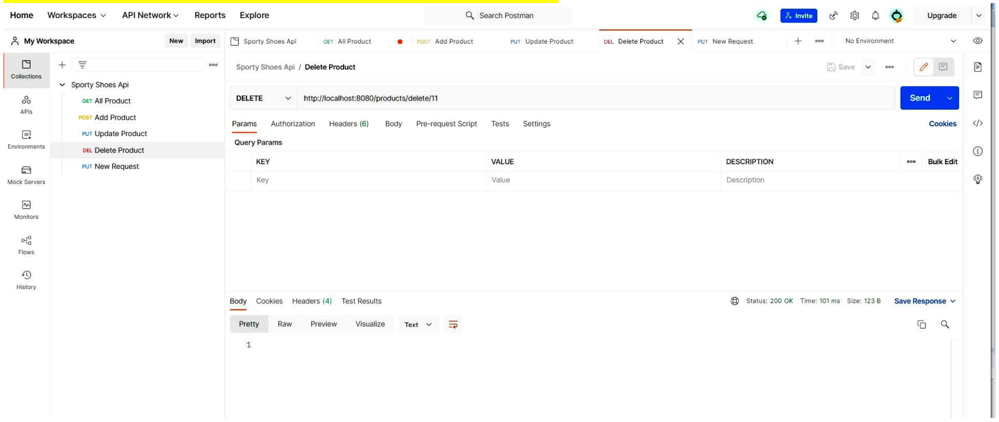
```
{

    "name": "Sporty shoes",
    "season": "Summer",
    "brand": "Nike",
    "category": "Female",
    "price": 2500,
    "color": "White",
    "date": "2021-10-05"
}
```

Body — Status: 200 OK Time: 397 ms Size: 297 B

```
{
    "id": 11,
    "name": "Sporty shoes",
    "season": "Summer",
    "brand": "Nike",
    "category": "Female",
    "price": 2500,
    "color": "White",
    "date": "2021-10-05"
}
```

Postman Output - Delete Product



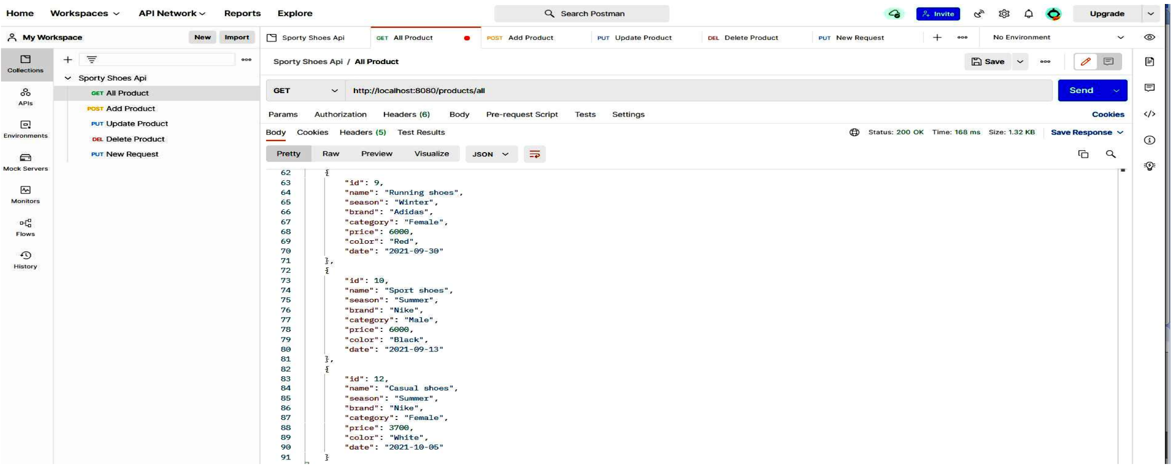
Sporty Shoes Api / Delete Product

DELETE http://localhost:8080/products/delete/11

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body — Status: 200 OK Time: 101 ms Size: 123 B

```
1
```



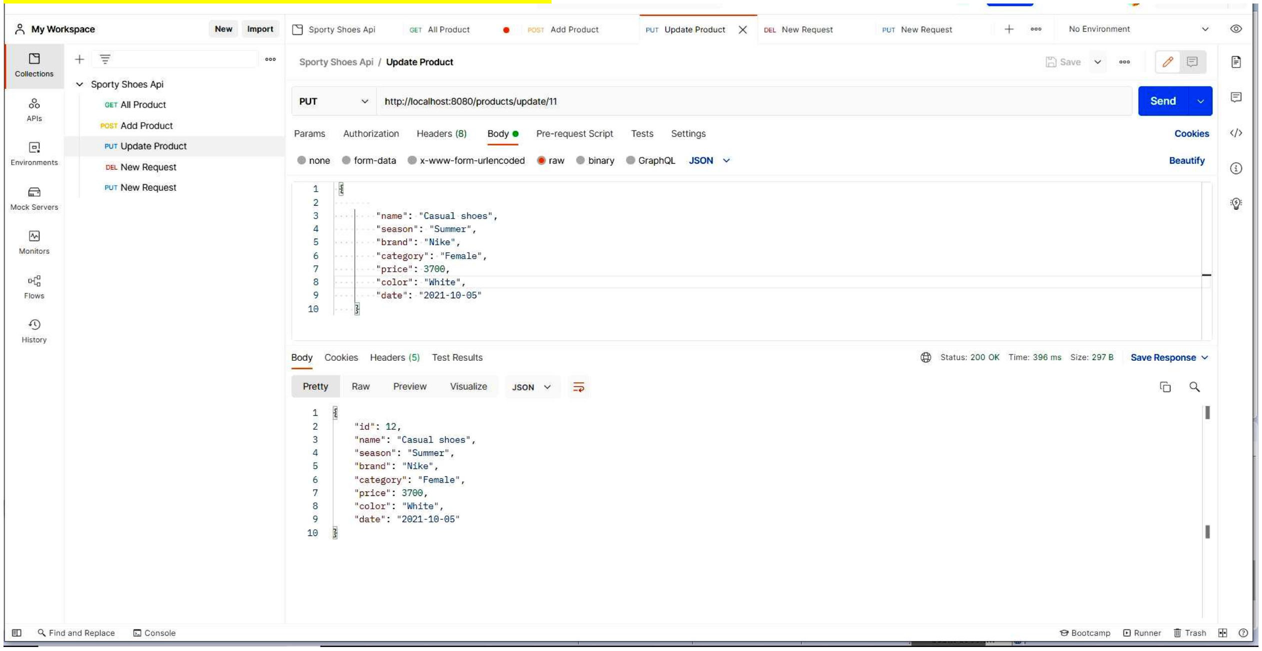
Sporty Shoes Api / All Product

GET http://localhost:8080/products/all

Status: 200 OK Time: 168 ms Size: 1.32 KB

```
    {
        "id": 9,
        "name": "Running shoes",
        "season": "Winter",
        "brand": "Adidas",
        "category": "Female",
        "price": 6000,
        "color": "Red",
        "date": "2021-09-30"
    },
    {
        "id": 10,
        "name": "Sport shoes",
        "season": "Summer",
        "brand": "Nike",
        "category": "Male",
        "price": 6000,
        "color": "Black",
        "date": "2021-09-13"
    },
    {
        "id": 12,
        "name": "Casual shoes",
        "season": "Summer",
        "brand": "Nike",
        "category": "Female",
        "price": 3700,
        "color": "White",
        "date": "2021-10-05"
    }
```

Postman Output Product Update



Sporty Shoes Api / Update Product

PUT http://localhost:8080/products/update/11

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

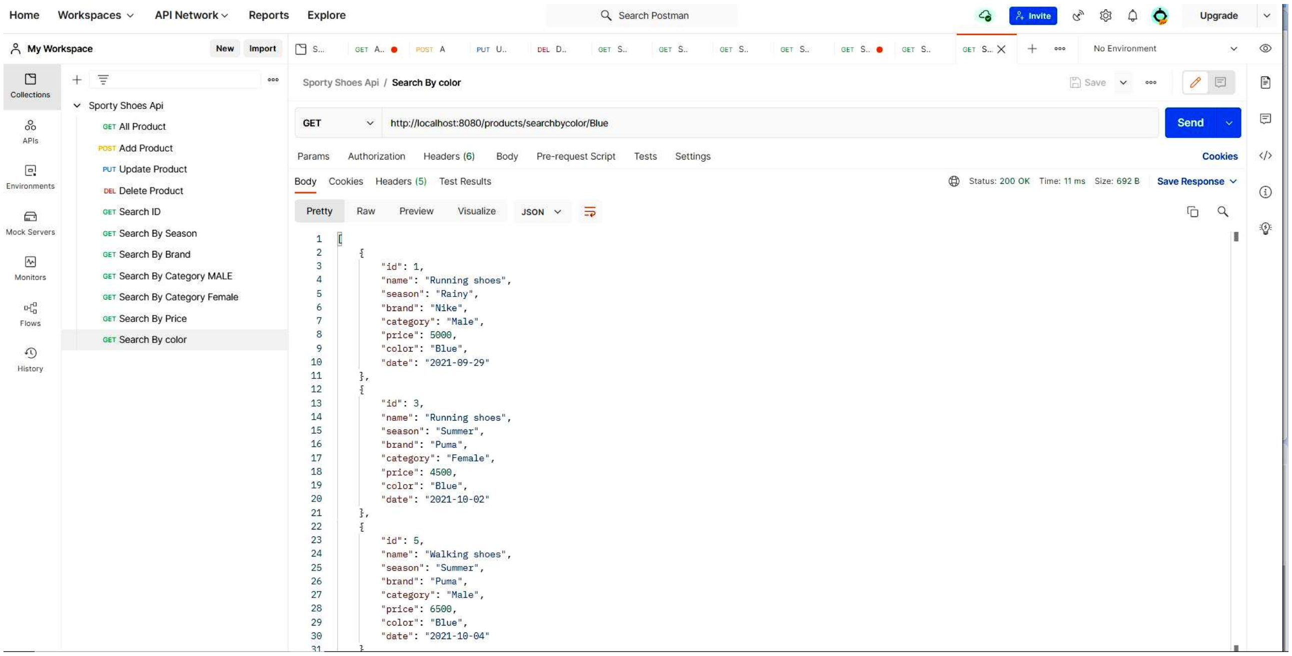
```
{

        "name": "Casual shoes",
        "season": "Summer",
        "brand": "Nike",
        "category": "Female",
        "price": 3700,
        "color": "White",
        "date": "2021-10-05"
}
```

Status: 200 OK Time: 396 ms Size: 297 B

```
{
    "id": 12,
    "name": "Casual shoes",
    "season": "Summer",
    "brand": "Nike",
    "category": "Female",
    "price": 3700,
    "color": "White",
    "date": "2021-10-05"
}
```

Search By Color



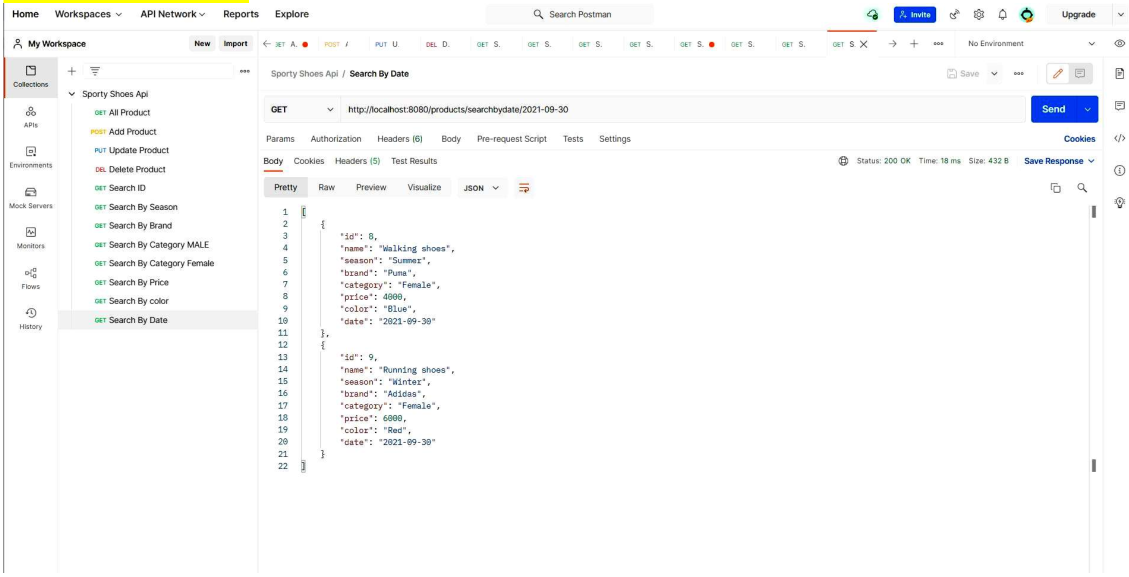
Sporty Shoes Api / Search By color

GET http://localhost:8080/products/searchbycolor/Blue

Status: 200 OK Time: 11 ms Size: 692 B

```
[
    {
        "id": 1,
        "name": "Running shoes",
        "season": "Rainy",
        "brand": "Nike",
        "category": "Male",
        "price": 5000,
        "color": "Blue",
        "date": "2021-09-29"
    },
    {
        "id": 3,
        "name": "Running shoes",
        "season": "Summer",
        "brand": "Puma",
        "category": "Female",
        "price": 4500,
        "color": "Blue",
        "date": "2021-10-02"
    },
    {
        "id": 5,
        "name": "Walking shoes",
        "season": "Summer",
        "brand": "Puma",
        "category": "Male",
        "price": 6500,
        "color": "Blue",
        "date": "2021-10-04"
    }
```

Search by date



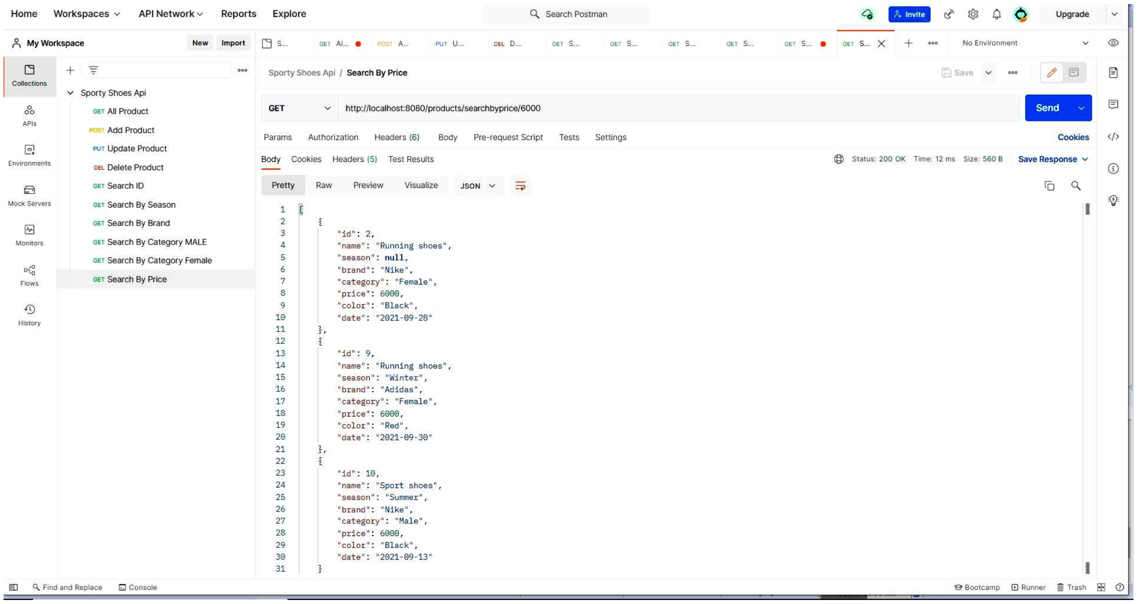
Sporty Shoes Api / Search By Date

GET http://localhost:8080/products/searchbydate/2021-09-30

Status: 200 OK Time: 18 ms Size: 432 B

```
[
    {
        "id": 8,
        "name": "Walking shoes",
        "season": "Summer",
        "brand": "Puma",
        "category": "Female",
        "price": 4000,
        "color": "Blue",
        "date": "2021-09-30"
    },
    {
        "id": 9,
        "name": "Running shoes",
        "season": "Winter",
        "brand": "Adidas",
        "category": "Female",
        "price": 6000,
        "color": "Red",
        "date": "2021-09-30"
    }
]
```

Search by price



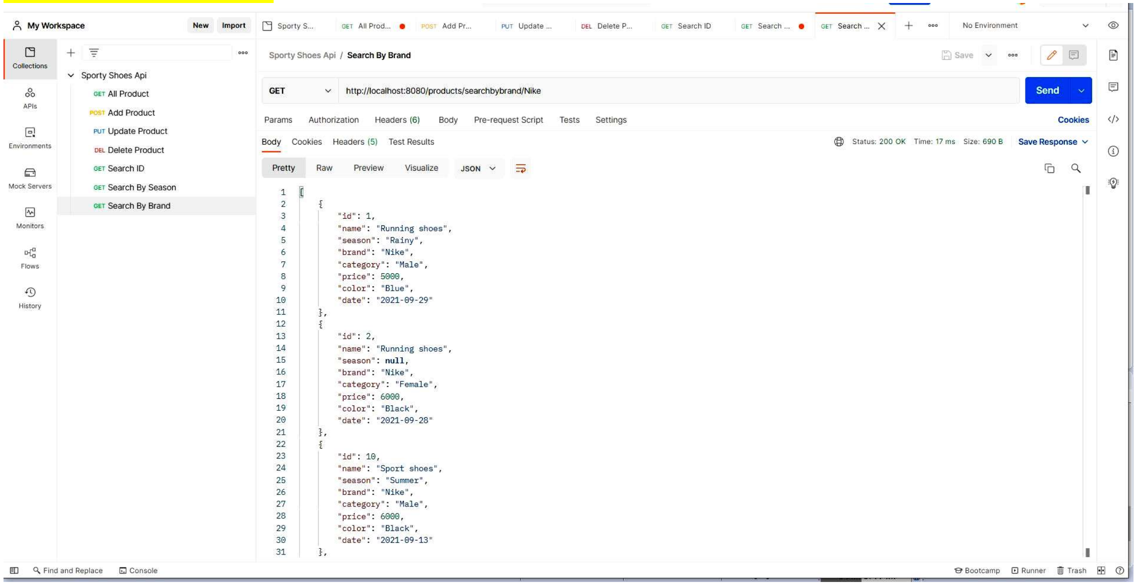
Sporty Shoes Api / Search By Price

GET http://localhost:8080/products/searchbyprice/6000

Status: 200 OK Time: 12 ms Size: 560 B

```
[
    {
        "id": 2,
        "name": "Running shoes",
        "season": null,
        "brand": "Nike",
        "category": "Female",
        "price": 6000,
        "color": "Black",
        "date": "2021-09-28"
    },
    {
        "id": 9,
        "name": "Running shoes",
        "season": "Winter",
        "brand": "Adidas",
        "category": "Female",
        "price": 6000,
        "color": "Red",
        "date": "2021-09-30"
    },
    {
        "id": 10,
        "name": "Sport shoes",
        "season": "Summer",
        "brand": "Nike",
        "category": "Male",
        "price": 6000,
        "color": "Black",
        "date": "2021-09-13"
    }
```

Search by Brand



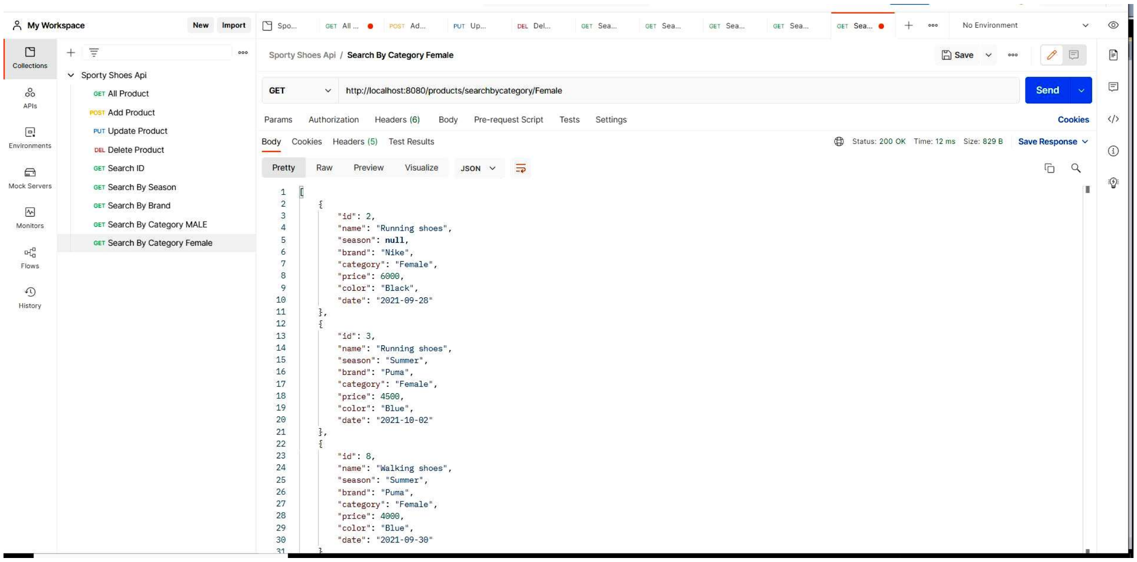
Sporty Shoes Api / Search By Brand

GET http://localhost:8080/products/searchbybrand/Nike

Status: 200 OK Time: 17 ms Size: 690 B

```
[
    {
        "id": 1,
        "name": "Running shoes",
        "season": "Rainy",
        "brand": "Nike",
        "category": "Male",
        "price": 5000,
        "color": "Blue",
        "date": "2021-09-29"
    },
    {
        "id": 2,
        "name": "Running shoes",
        "season": null,
        "brand": "Nike",
        "category": "Female",
        "price": 6000,
        "color": "Black",
        "date": "2021-09-28"
    },
    {
        "id": 10,
        "name": "Sport shoes",
        "season": "Summer",
        "brand": "Nike",
        "category": "Male",
        "price": 6000,
        "color": "Black",
        "date": "2021-09-13"
    },
```

Search By Category like Male

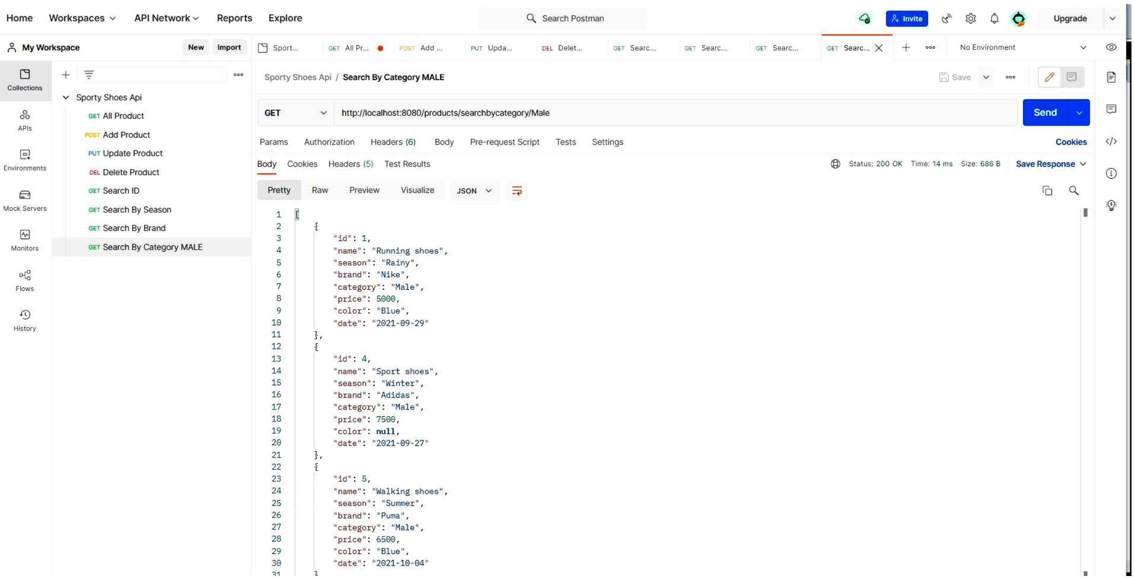


GET http://localhost:8080/products/searchbycategory/Female

Status: 200 OK Time: 12 ms Size: 829 B

```
[
    {
        "id": 2,
        "name": "Running shoes",
        "season": null,
        "brand": "Nike",
        "category": "Female",
        "price": 6000,
        "color": "Black",
        "date": "2021-09-28"
    },
    {
        "id": 3,
        "name": "Running shoes",
        "season": "Summer",
        "brand": "Puma",
        "category": "Female",
        "price": 4500,
        "color": "Blue",
        "date": "2021-10-02"
    },
    {
        "id": 8,
        "name": "Walking shoes",
        "season": "Summer",
        "brand": "Puma",
        "category": "Female",
        "price": 4000,
        "color": "Blue",
        "date": "2021-09-30"
    }
```

Search By Category like Female

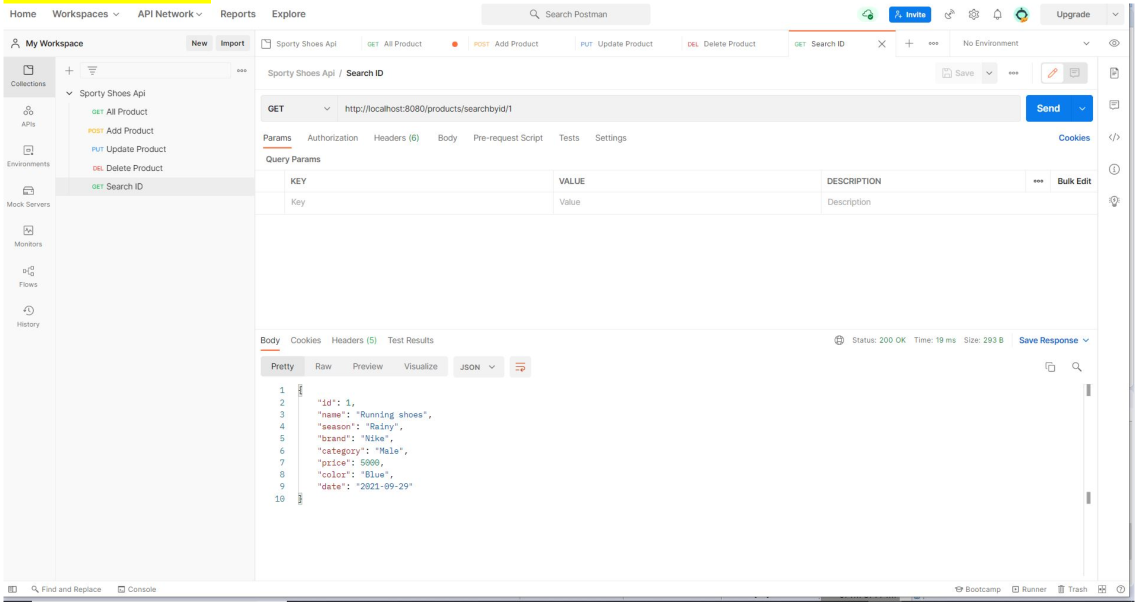


GET http://localhost:8080/products/searchbycategory/Male

Status: 200 OK Time: 14 ms Size: 686 B

```
[
    {
        "id": 1,
        "name": "Running shoes",
        "season": "Rainy",
        "brand": "Nike",
        "category": "Male",
        "price": 5000,
        "color": "Blue",
        "date": "2021-09-29"
    },
    {
        "id": 4,
        "name": "Sport shoes",
        "season": "Winter",
        "brand": "Adidas",
        "category": "Male",
        "price": 7500,
        "color": null,
        "date": "2021-09-27"
    },
    {
        "id": 5,
        "name": "Walking shoes",
        "season": "Summer",
        "brand": "Puma",
        "category": "Male",
        "price": 6500,
        "color": "Blue",
        "date": "2021-10-04"
    }
```

Serach By ID



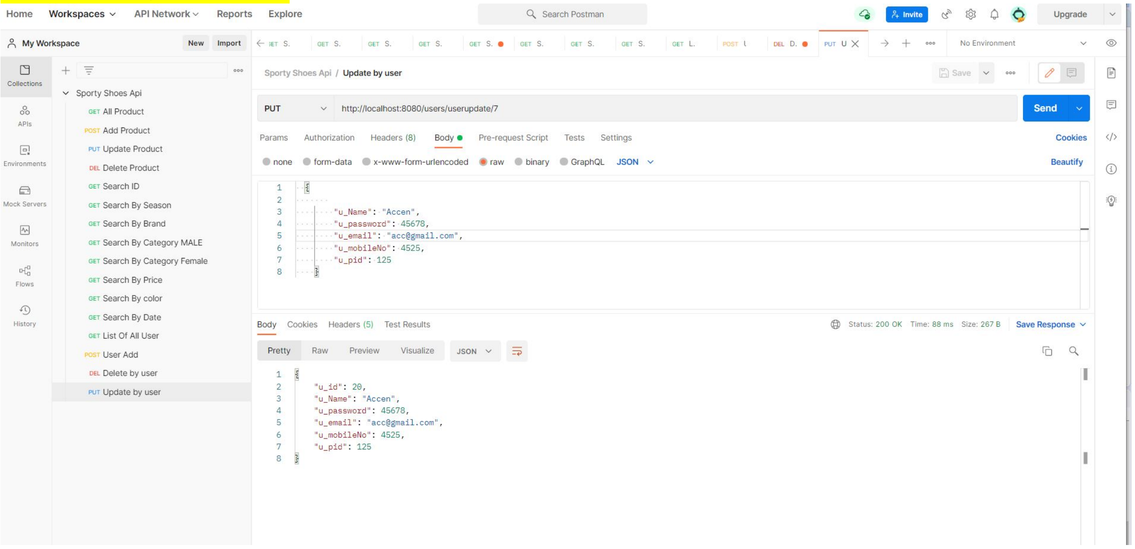
Sporty Shoes Api / Search ID

GET http://localhost:8080/products/searchbyid/1

Status: 200 OK Time: 19 ms Size: 293 B

```
{
    "id": 1,
    "name": "Running shoes",
    "season": "Rainy",
    "brand": "Nike",
    "category": "Male",
    "price": 5000,
    "color": "Blue",
    "date": "2021-09-29"
}
```

Search By Season



Sporty Shoes Api / Update by user

PUT http://localhost:8080/users/userupdate/7

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

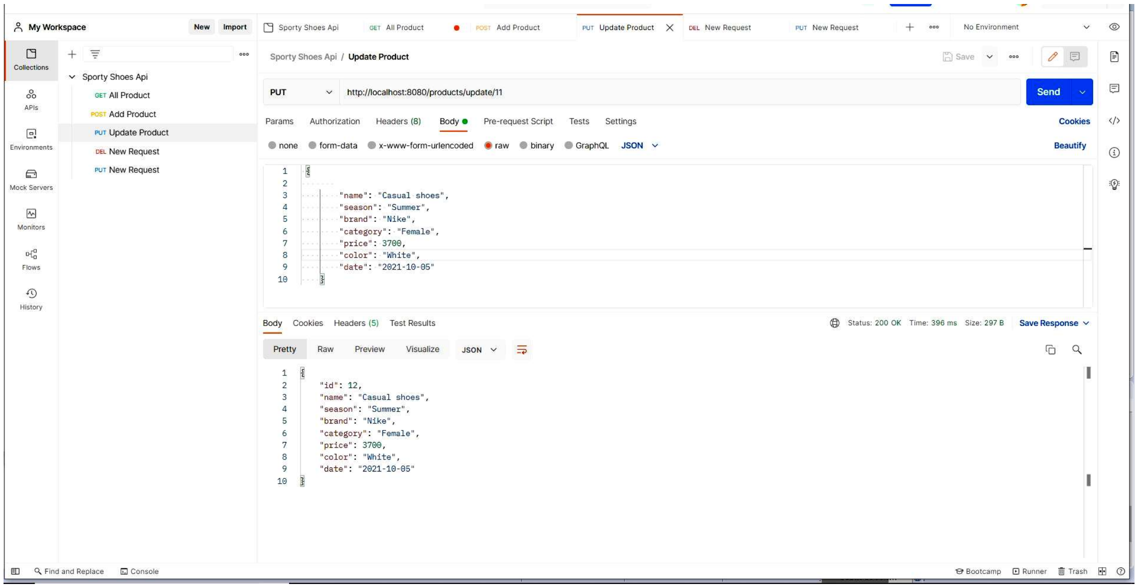
```
{

    "u_Name": "Accen",
    "u_password": 45678,
    "u_email": "acc@gmail.com",
    "u_mobileNo": 4525,
    "u_pid": 125
}
```

Status: 200 OK Time: 88 ms Size: 267 B

```
{
    "u_id": 20,
    "u_Name": "Accen",
    "u_password": 45678,
    "u_email": "acc@gmail.com",
    "u_mobileNo": 4525,
    "u_pid": 125
}
```

Update By User



Sporty Shoes Api / Update Product

PUT http://localhost:8080/products/update/11

Body ● raw JSON

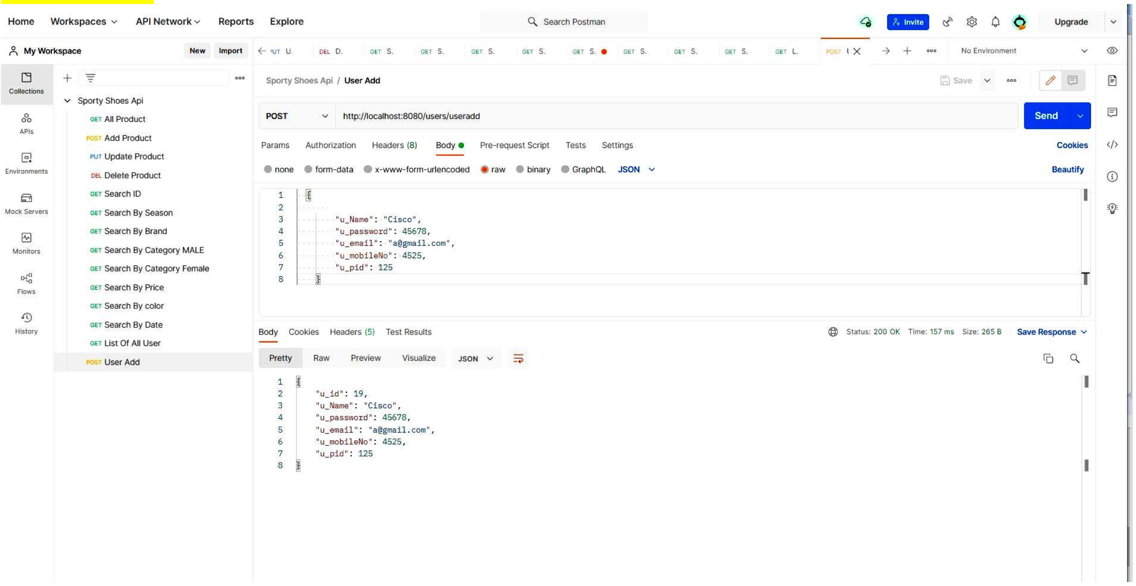
```
{
    
    "name": "Casual shoes",
    "season": "Summer",
    "brand": "Nike",
    "category": "Female",
    "price": 3700,
    "color": "White",
    "date": "2021-10-05"
}
```

Body — Status: 200 OK Time: 396 ms Size: 297 B

Pretty JSON

```
{
    "id": 12,
    "name": "Casual shoes",
    "season": "Summer",
    "brand": "Nike",
    "category": "Female",
    "price": 3700,
    "color": "White",
    "date": "2021-10-05"
}
```

User Add



Sporty Shoes Api / User Add

POST http://localhost:8080/users/useradd

Body ● raw JSON

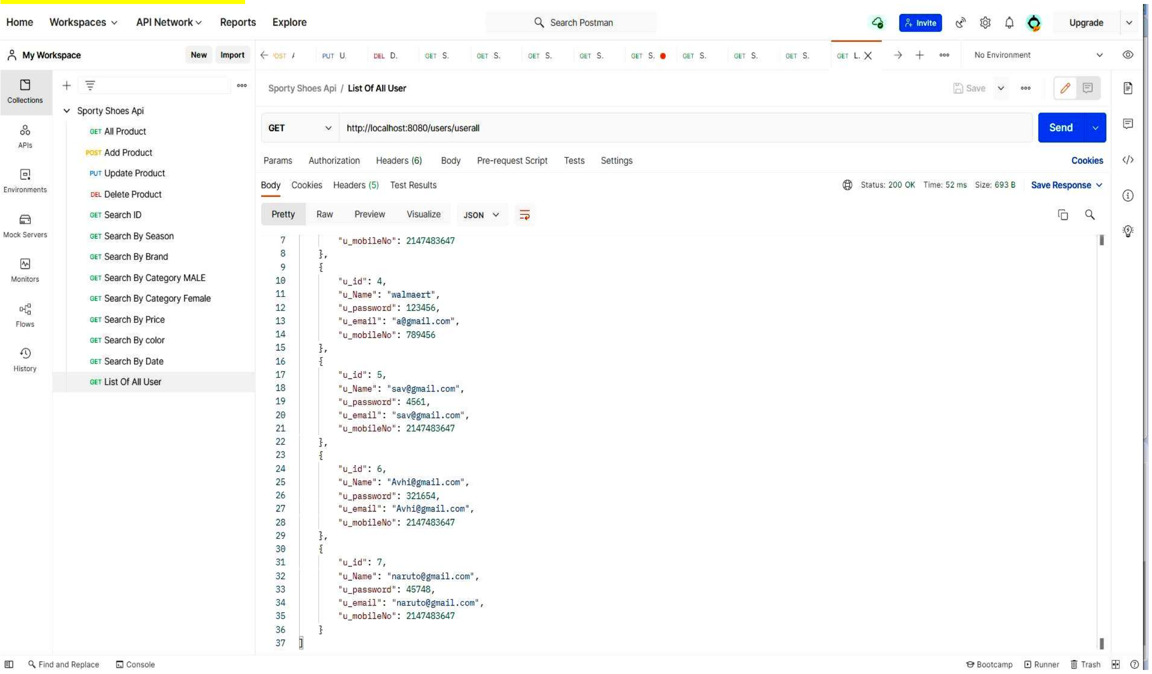
```
{
    
    "u_Name": "Cisco",
    "u_password": 45678,
    "u_email": "a@gmail.com",
    "u_mobileNo": 4525,
    "u_pid": 125
}
```

Body — Status: 200 OK Time: 157 ms Size: 265 B

Pretty JSON

```
{
    "u_id": 19,
    "u_Name": "Cisco",
    "u_password": 45678,
    "u_email": "a@gmail.com",
    "u_mobileNo": 4525,
    "u_pid": 125
}
```

List Of All User



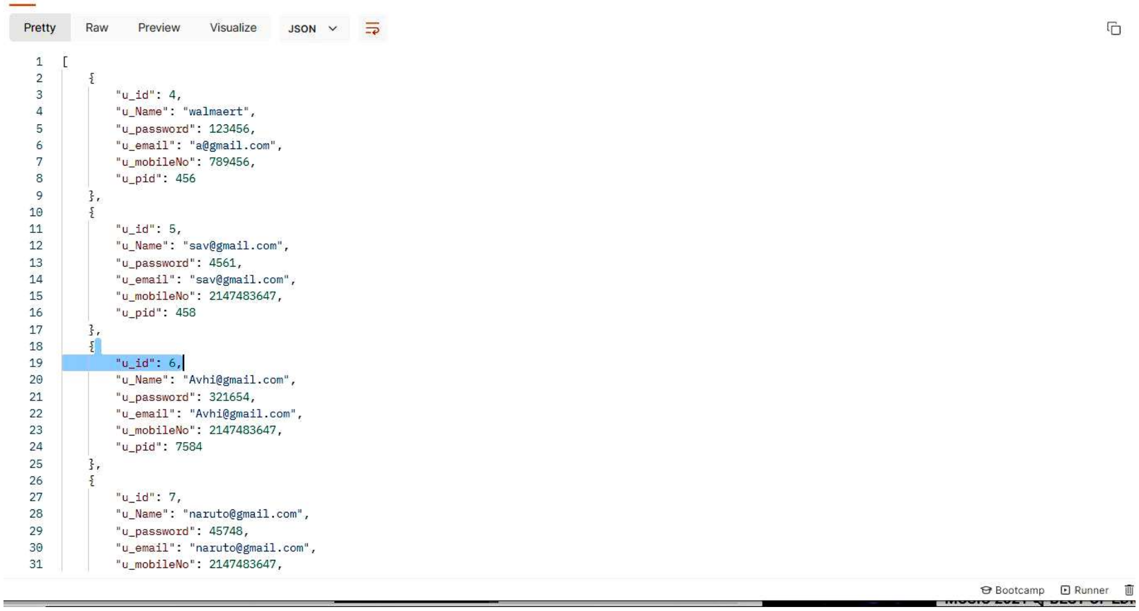
Sporty Shoes Api / List Of All User

GET http://localhost:8080/users/userall

Status: 200 OK Time: 52 ms Size: 693 B

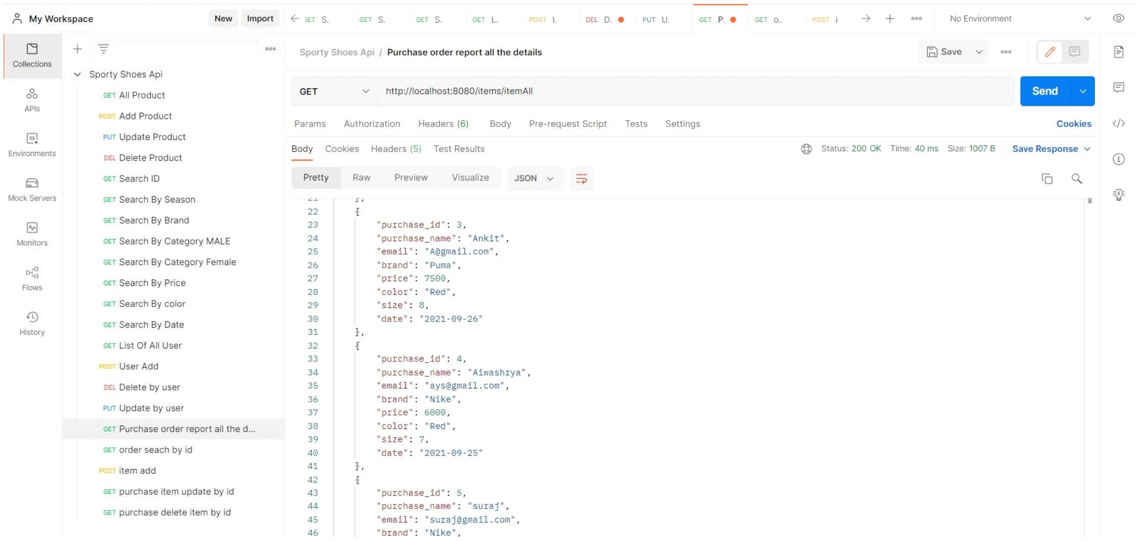
```
        "u_mobileNo": 2147483647
    },
    {
        "u_id": 4,
        "u_Name": "walmaert",
        "u_password": 123456,
        "u_email": "a@gmail.com",
        "u_mobileNo": 789456
    },
    {
        "u_id": 5,
        "u_Name": "sav@gmail.com",
        "u_password": 4561,
        "u_email": "sav@gmail.com",
        "u_mobileNo": 2147483647
    },
    {
        "u_id": 6,
        "u_Name": "Avhi@gmail.com",
        "u_password": 321654,
        "u_email": "Avhi@gmail.com",
        "u_mobileNo": 2147483647
    },
    {
        "u_id": 7,
        "u_Name": "naruto@gmail.com",
        "u_password": 45748,
        "u_email": "naruto@gmail.com",
        "u_mobileNo": 2147483647
    }
]
```

Delete By User 2nd file deleted



```
[
    {
        "u_id": 4,
        "u_Name": "walmaert",
        "u_password": 123456,
        "u_email": "a@gmail.com",
        "u_mobileNo": 789456,
        "u_pid": 456
    },
    {
        "u_id": 5,
        "u_Name": "sav@gmail.com",
        "u_password": 4561,
        "u_email": "sav@gmail.com",
        "u_mobileNo": 2147483647,
        "u_pid": 458
    },
    {
        "u_id": 6,
        "u_Name": "Avhi@gmail.com",
        "u_password": 321654,
        "u_email": "Avhi@gmail.com",
        "u_mobileNo": 2147483647,
        "u_pid": 7584
    },
    {
        "u_id": 7,
        "u_Name": "naruto@gmail.com",
        "u_password": 45748,
        "u_email": "naruto@gmail.com",
        "u_mobileNo": 2147483647,
```

Purchase all Order report

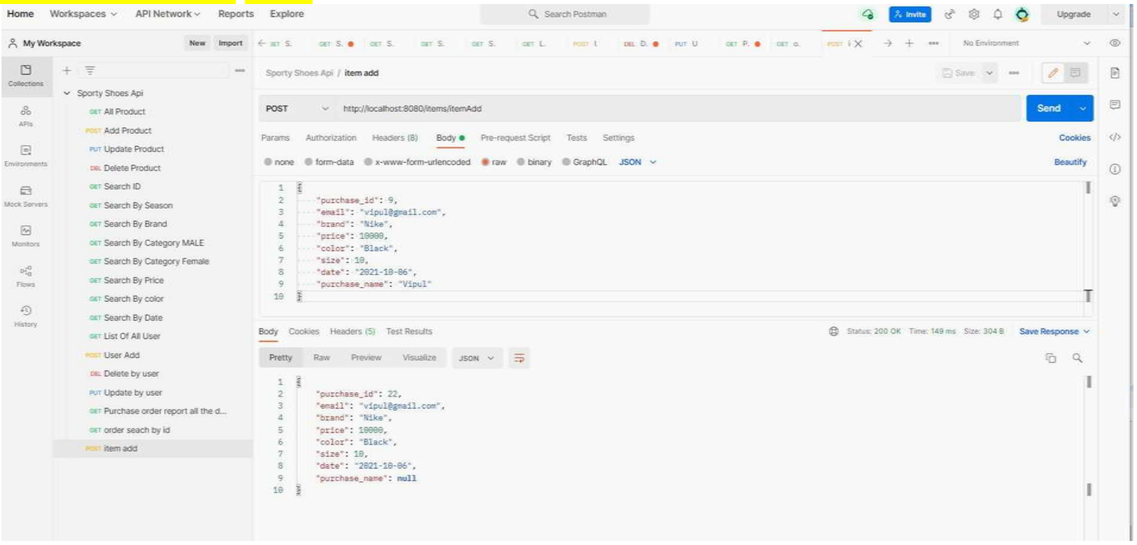


GET http://localhost:8080/items/itemAll

Status: 200 OK Time: 40 ms Size: 1007 B

```
    },
    {
        "purchase_id": 3,
        "purchase_name": "Ankit",
        "email": "A@gmail.com",
        "brand": "Puma",
        "price": 7500,
        "color": "Red",
        "size": 8,
        "date": "2021-09-26"
    },
    {
        "purchase_id": 4,
        "purchase_name": "Aiwashrya",
        "email": "ays@gmail.com",
        "brand": "Nike",
        "price": 6000,
        "color": "Red",
        "size": 7,
        "date": "2021-09-25"
    },
    {
        "purchase_id": 5,
        "purchase_name": "suraj",
        "email": "suraj@gmail.com",
        "brand": "Nike",
```

Purchase Item Add



POST http://localhost:8080/items/itemAdd

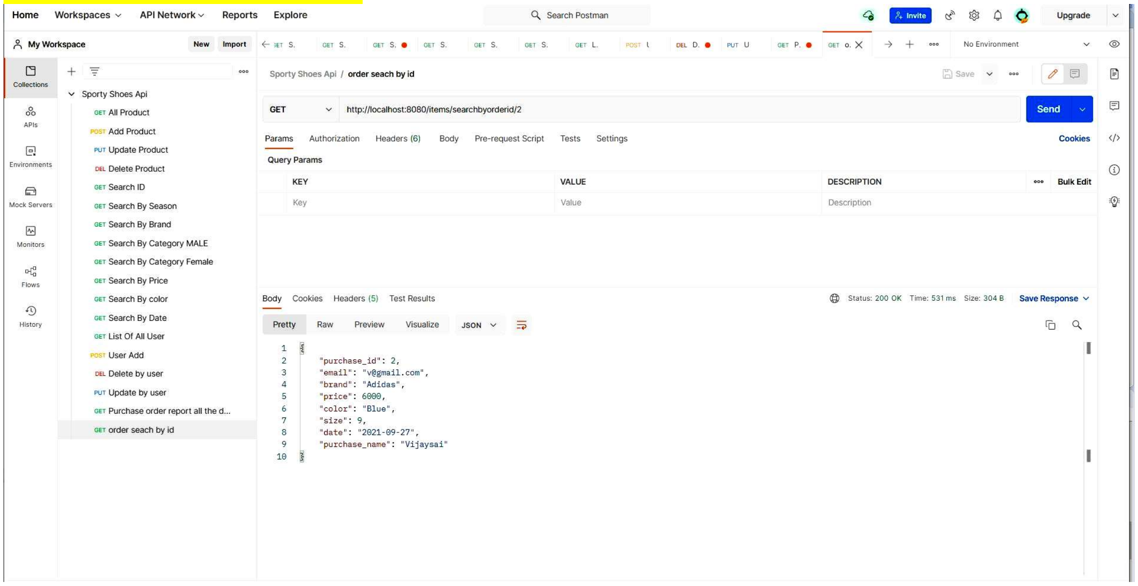
○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
{
    "purchase_id": 9,
    "email": "vipul@gmail.com",
    "brand": "Nike",
    "price": 10000,
    "color": "Black",
    "size": 10,
    "date": "2021-10-06",
    "purchase_name": "Vipul"
}
```

Status: 200 OK Time: 149 ms Size: 304 B

```
{
    "purchase_id": 22,
    "email": "vipul@gmail.com",
    "brand": "Nike",
    "price": 10000,
    "color": "Black",
    "size": 10,
    "date": "2021-10-06",
    "purchase_name": null
}
```

Purchase Item Search



Sporty Shoes Api / order seach by id

GET http://localhost:8080/items/searchbyorderid/2

Params | Authorization | Headers (6) | Body | Pre-request Script | Tests | Settings

Query Params

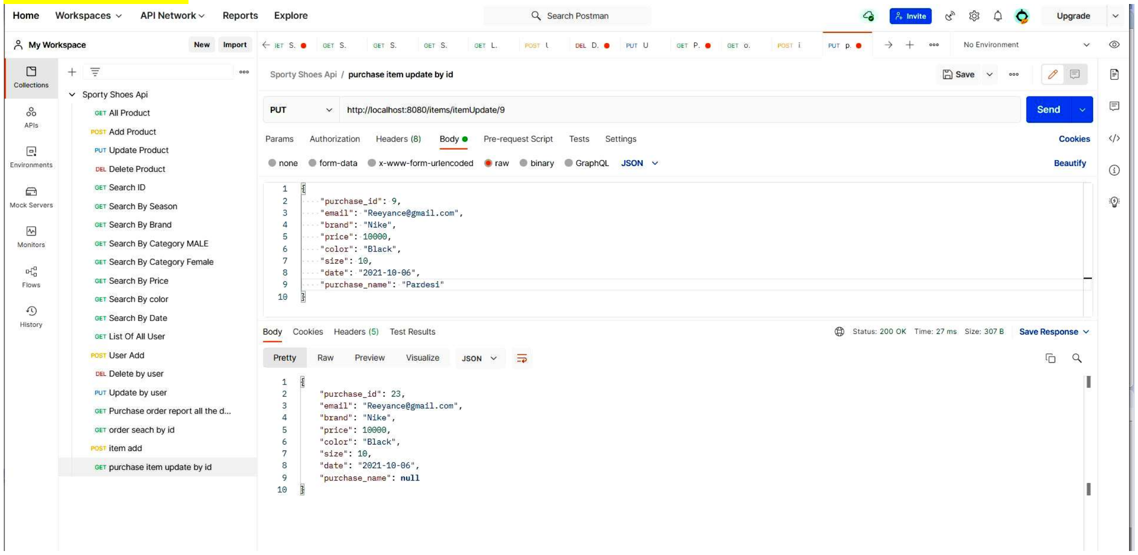
KEY	VALUE	DESCRIPTION
Key	Value	Description

Body | Cookies | Headers (5) | Test Results — Status: 200 OK Time: 531 ms Size: 304 B

Pretty | Raw | Preview | Visualize | JSON

```
{
    "purchase_id": 2,
    "email": "v@gmail.com",
    "brand": "Adidas",
    "price": 6000,
    "color": "Blue",
    "size": 9,
    "date": "2021-09-27",
    "purchase_name": "Vijaysai"
}
```

Update file



Sporty Shoes Api / purchase item update by id

PUT http://localhost:8080/items/itemUpdate/9

Params | Authorization | Headers (8) | Body ● | Pre-request Script | Tests | Settings

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

```
{
    "purchase_id": 9,
    "email": "Reeyance@gmail.com",
    "brand": "Nike",
    "price": 10000,
    "color": "Black",
    "size": 10,
    "date": "2021-10-06",
    "purchase_name": "Pardesi"
}
```

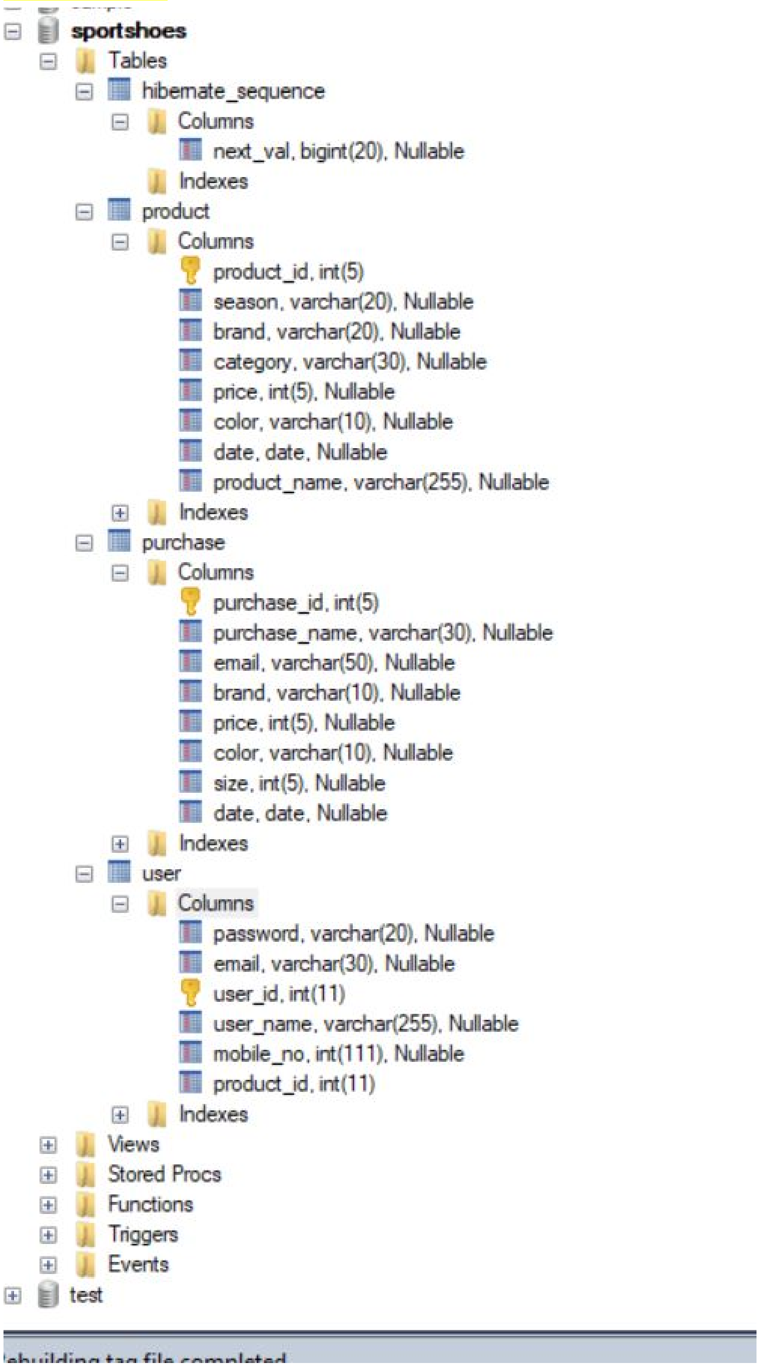
Body | Cookies | Headers (5) | Test Results — Status: 200 OK Time: 27 ms Size: 307 B

Pretty | Raw | Preview | Visualize | JSON

```
{
    "purchase_id": 23,
    "email": "Reeyance@gmail.com",
    "brand": "Nike",
    "price": 10000,
    "color": "Black",
    "size": 10,
    "date": "2021-10-06",
    "purchase_name": null
}
```

DATABASE TABLE

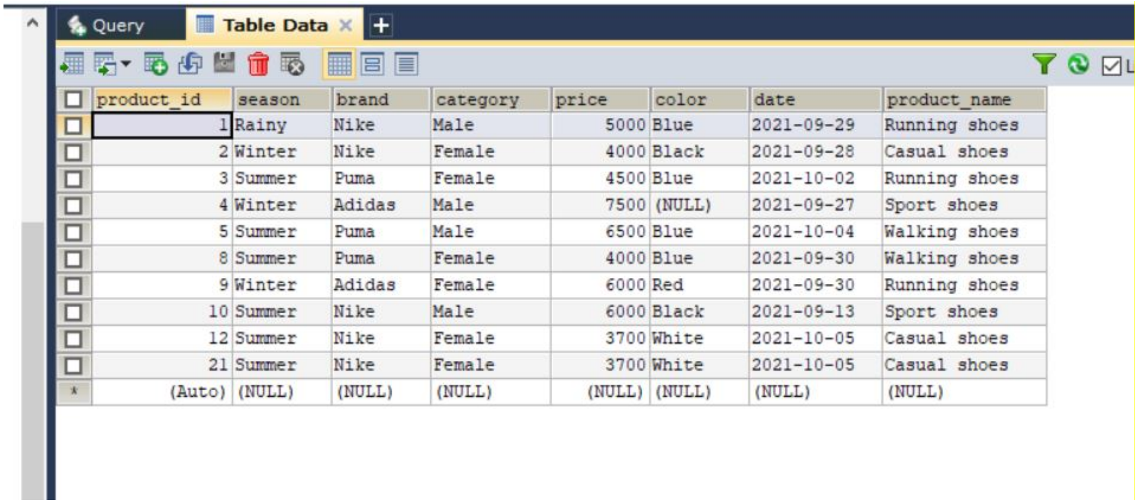
Overview:



```
⊟ sportshoes
    ⊟ Tables
        ⊟ hibernate_sequence
            ⊟ Columns
                next_val, bigint(20), Nullable
              Indexes
        ⊟ product
            ⊟ Columns
                product_id, int(5)
                season, varchar(20), Nullable
                brand, varchar(20), Nullable
                category, varchar(30), Nullable
                price, int(5), Nullable
                color, varchar(10), Nullable
                date, date, Nullable
                product_name, varchar(255), Nullable
            ⊞ Indexes
        ⊟ purchase
            ⊟ Columns
                purchase_id, int(5)
                purchase_name, varchar(30), Nullable
                email, varchar(50), Nullable
                brand, varchar(10), Nullable
                price, int(5), Nullable
                color, varchar(10), Nullable
                size, int(5), Nullable
                date, date, Nullable
            ⊞ Indexes
        ⊟ user
            ⊟ Columns
                password, varchar(20), Nullable
                email, varchar(30), Nullable
                user_id, int(11)
                user_name, varchar(255), Nullable
                mobile_no, int(111), Nullable
                product_id, int(11)
            ⊞ Indexes
    ⊞ Views
    ⊞ Stored Procs
    ⊞ Functions
    ⊞ Triggers
    ⊞ Events
⊞ test
```

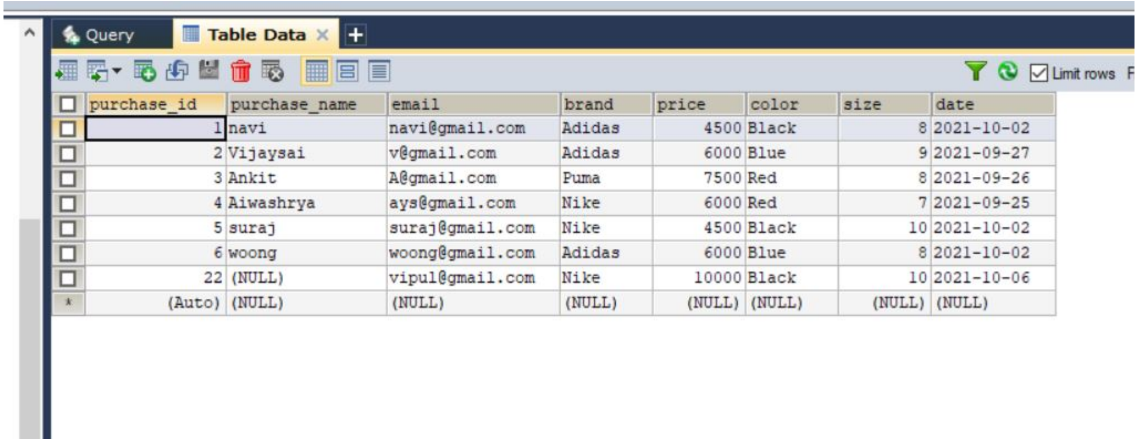
ebuilding tag file completed

Product Table:



□	product_id	season	brand	category	price	color	date	product_name
□	1	Rainy	Nike	Male	5000	Blue	2021-09-29	Running shoes
□	2	Winter	Nike	Female	4000	Black	2021-09-28	Casual shoes
□	3	Summer	Puma	Female	4500	Blue	2021-10-02	Running shoes
□	4	Winter	Adidas	Male	7500	(NULL)	2021-09-27	Sport shoes
□	5	Summer	Puma	Male	6500	Blue	2021-10-04	Walking shoes
□	8	Summer	Puma	Female	4000	Blue	2021-09-30	Walking shoes
□	9	Winter	Adidas	Female	6000	Red	2021-09-30	Running shoes
□	10	Summer	Nike	Male	6000	Black	2021-09-13	Sport shoes
□	12	Summer	Nike	Female	3700	White	2021-10-05	Casual shoes
□	21	Summer	Nike	Female	3700	White	2021-10-05	Casual shoes
*	(Auto)	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)

Purchase Table:



□	purchase_id	purchase_name	email	brand	price	color	size	date
□	1	navi	navi@gmail.com	Adidas	4500	Black	8	2021-10-02
□	2	Vijaysai	v@gmail.com	Adidas	6000	Blue	9	2021-09-27
□	3	Ankit	A@gmail.com	Puma	7500	Red	8	2021-09-26
□	4	Aiwashrya	ays@gmail.com	Nike	6000	Red	7	2021-09-25
□	5	suraj	suraj@gmail.com	Nike	4500	Black	10	2021-10-02
□	6	woong	woong@gmail.com	Adidas	6000	Blue	8	2021-10-02
□	22	(NULL)	vipul@gmail.com	Nike	10000	Black	10	2021-10-06
*	(Auto)	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)

User Table

Conclusion:

Further improvements to the application can be done which may include:Front End Part