Make an E-commerce Website for Sporty Shoes ..

Developer name: Rahaf Emad Alrabeea

Core concepts that were used in the project are:

- Database
- Collections
- Exception Handling

Technologies that were used in the project are:

- Spring boot.
- Handling exceptions.
- Spring boot CRUD api
- JDBC
- Java classes
- MySQL

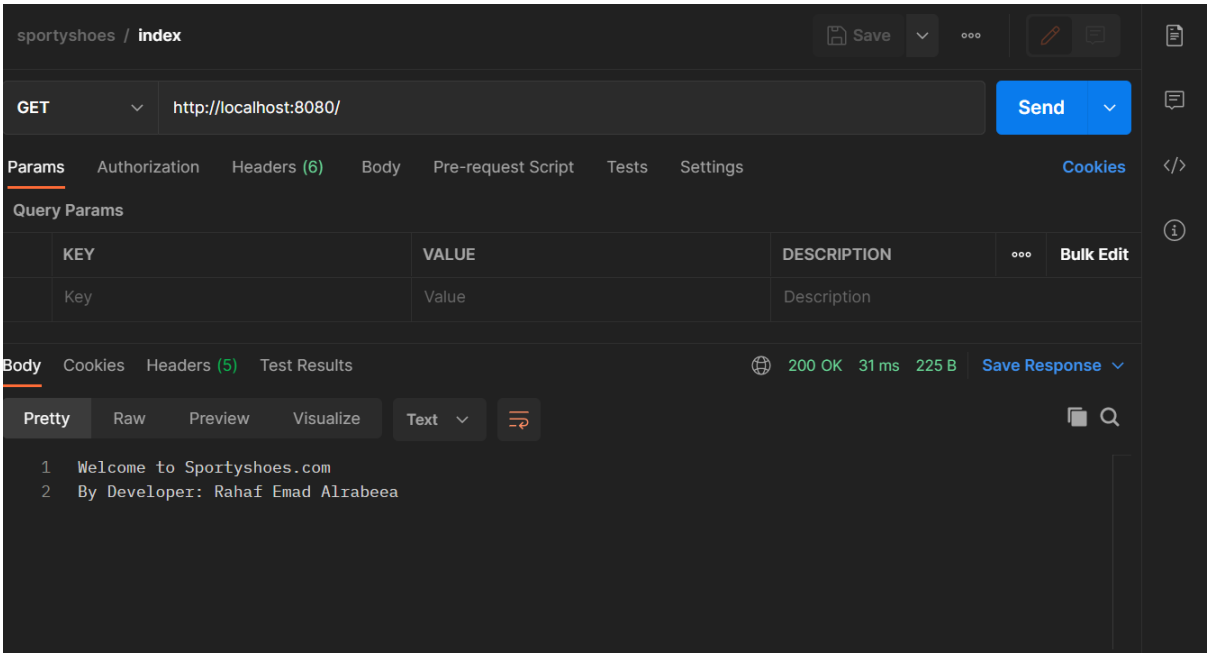
Application features:

- Sign up to the website.
- Sign in page for both user and admin.
- Edit username and password.
- Purchase a product.
- View a list of all products.
- Search a product by name.
- View details of a product.
- View account details.

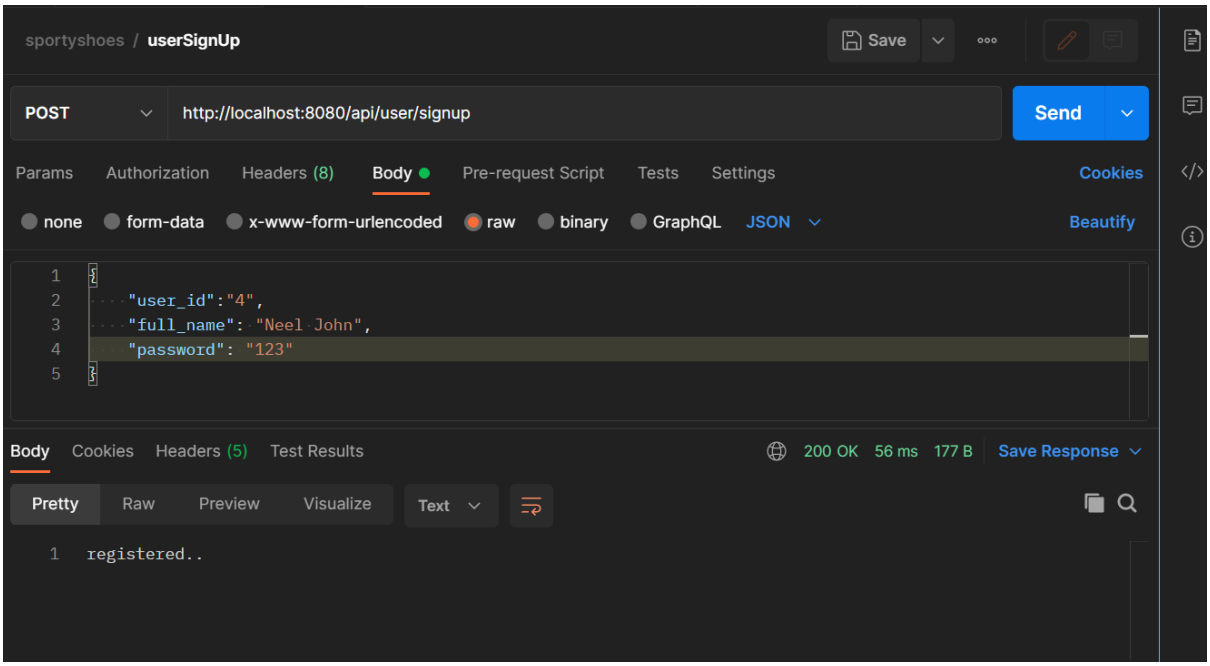
- View orders.
- Admin password change.
- Admin views list of all users.
- Admin views details of user.
- Admin searches user by name.
- Admin views all the products.
- Admin adds a new product to website.
- Admin views details of a product.
- Admin updates product details.
- Admin deletes product.
- Admin views all orders sorted by order date and order id ascending and descending.
- Admin views all orders for a specific product.
- Admin views all orders for a specific user.
- Close the application at any time.

The application was done in three sprints, the first sprint for sprint planning and preparing. Next, two sprint for developing and testing the application. Moving on to the first sprint we planned the flow of the development and how we are approaching the project. Furthermore, we developed the database tables and entered products, users' information and orders details. Then, we created the packages and java classes for each table in the database. Moving on, to the developing the repository packages to link the classes and the database code. Then, we created the services and rest api controllers to get to the code. Finally, we tested the website using postman.

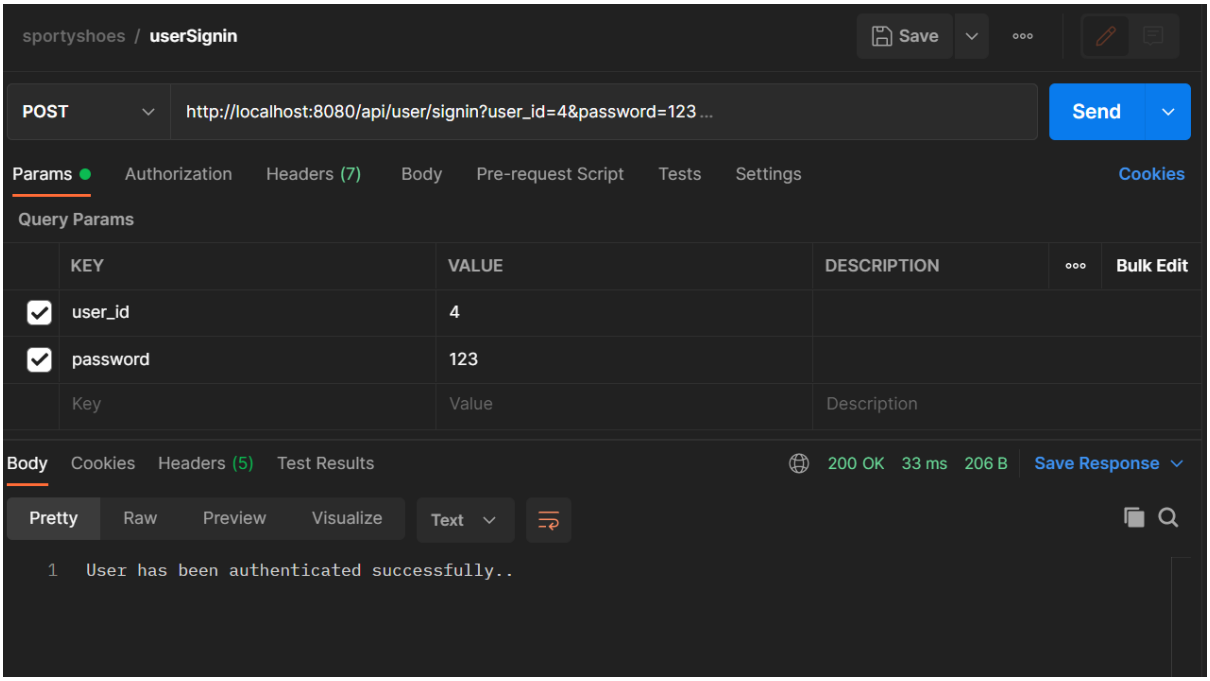
Below you will find screenshots of the application:



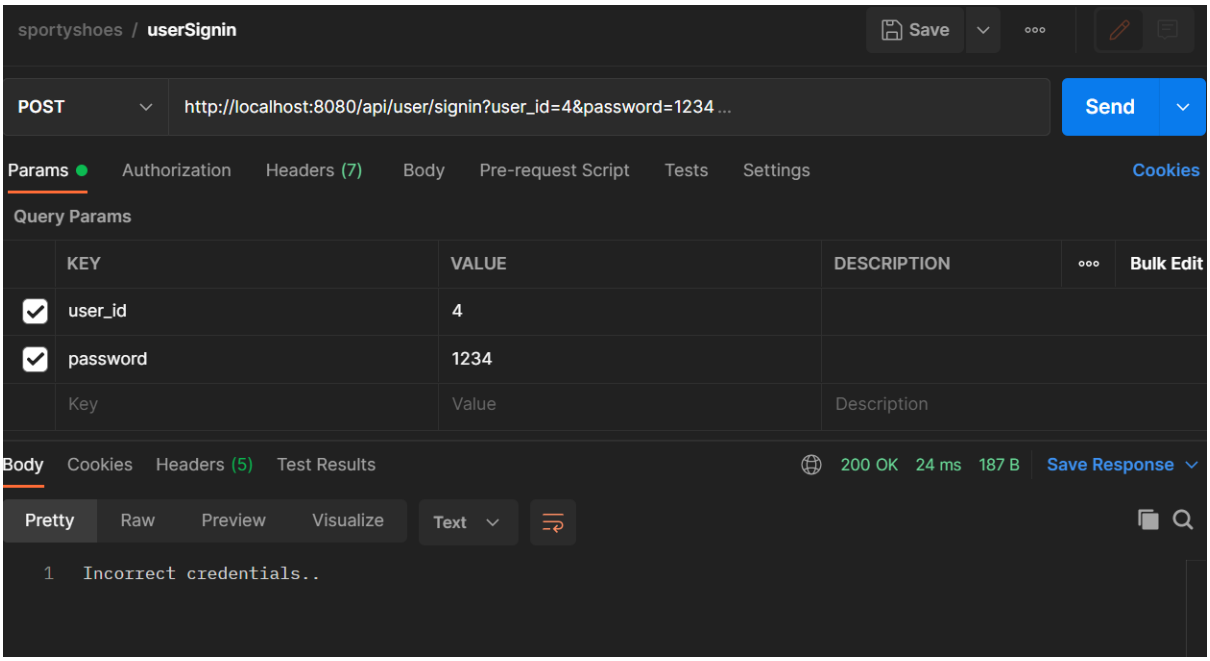
The above screenshot displays the welcome page.



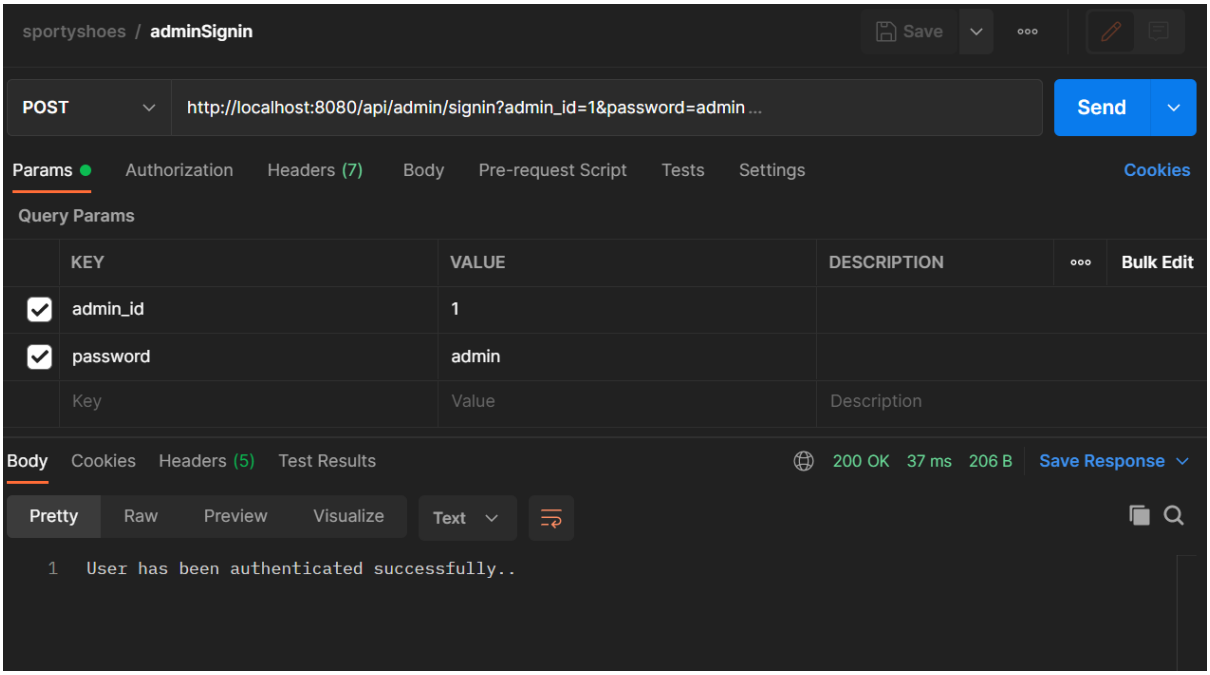
The user will signup via entering the above details.



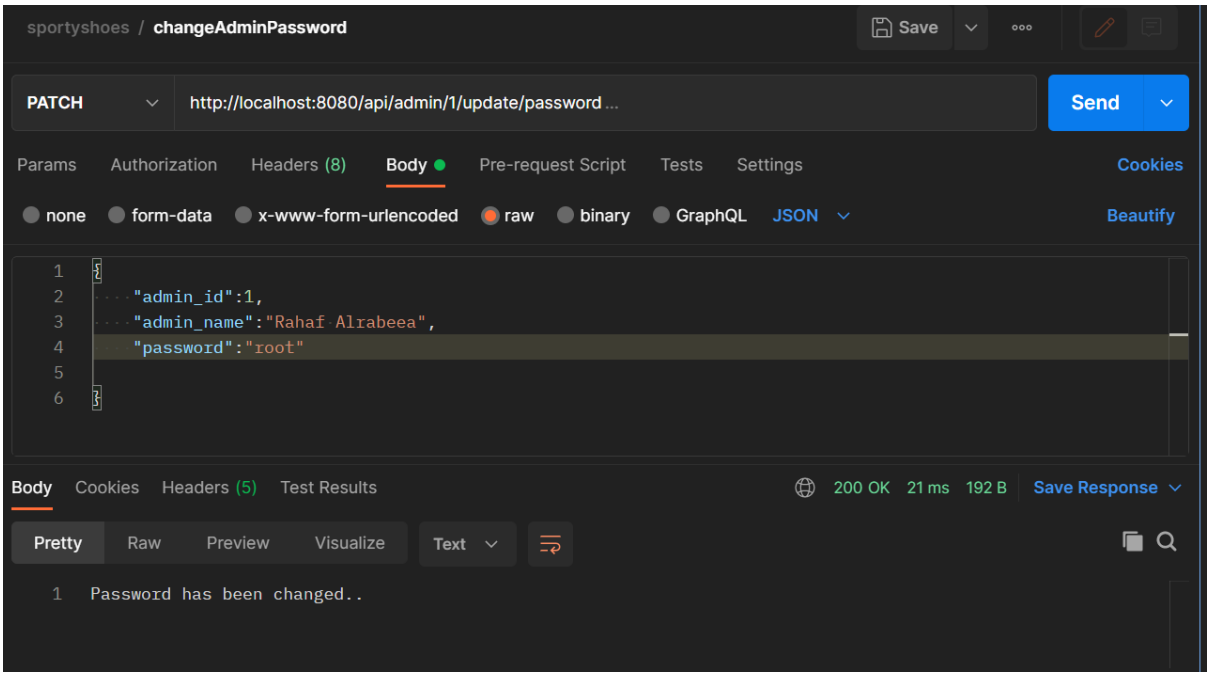
The user will enter his/her credentials to log in.



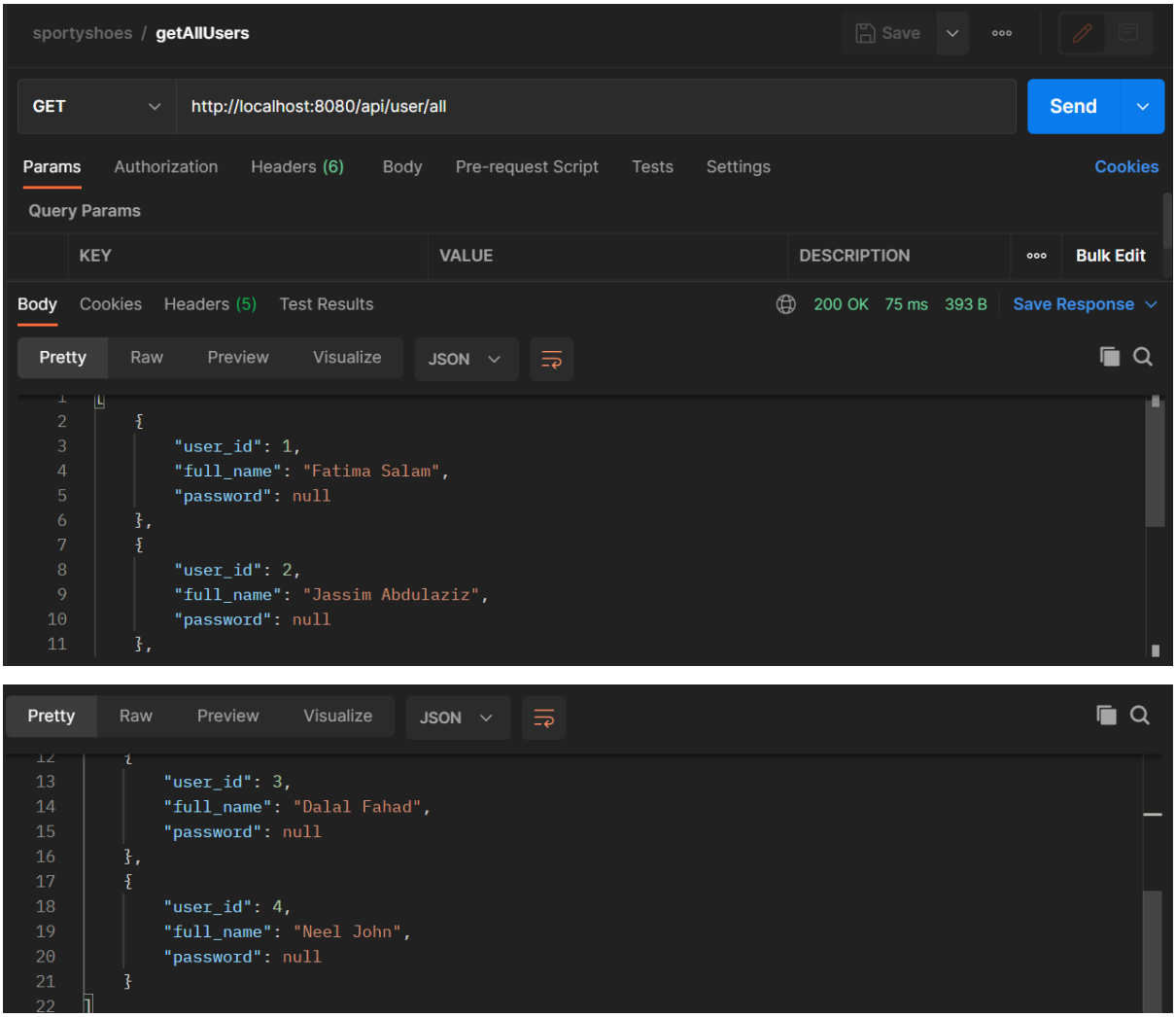
If incorrect credentials are entered the above message will be displayed.



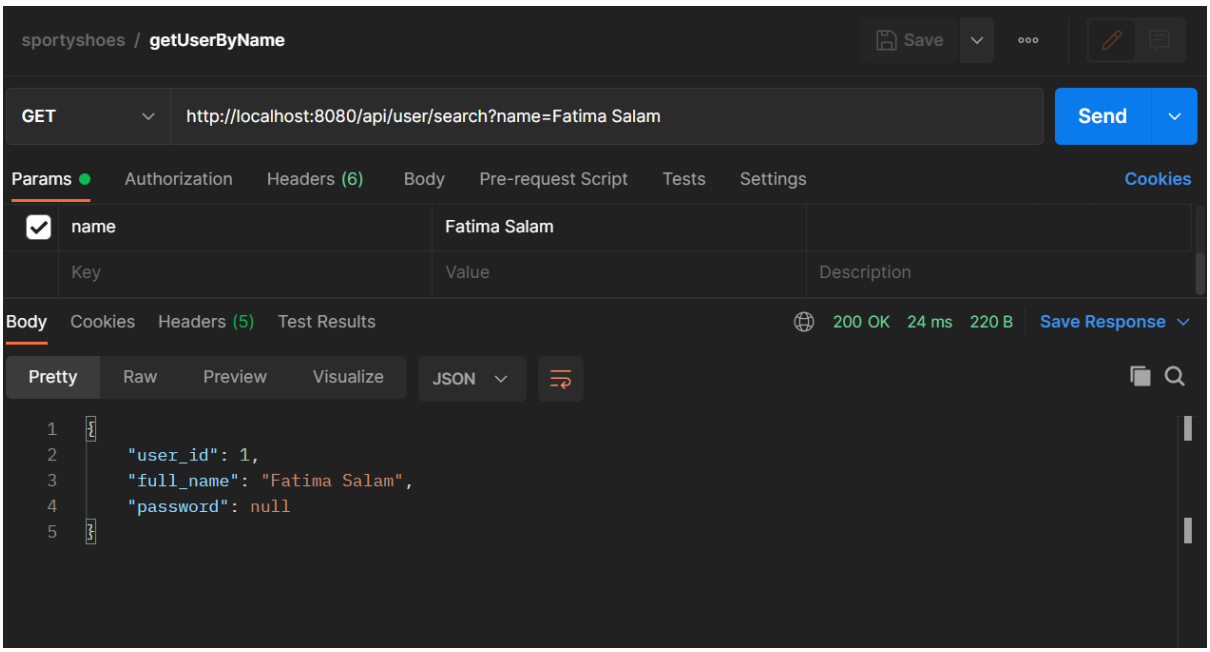
Admin sign in page.



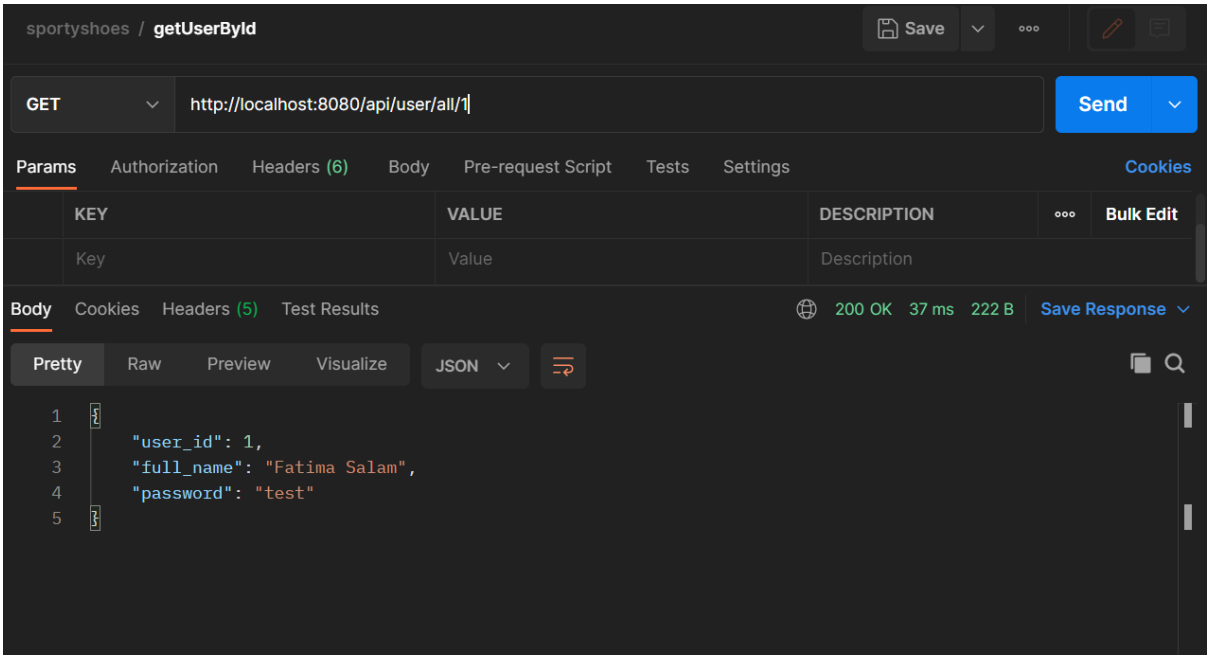
Admin change password.



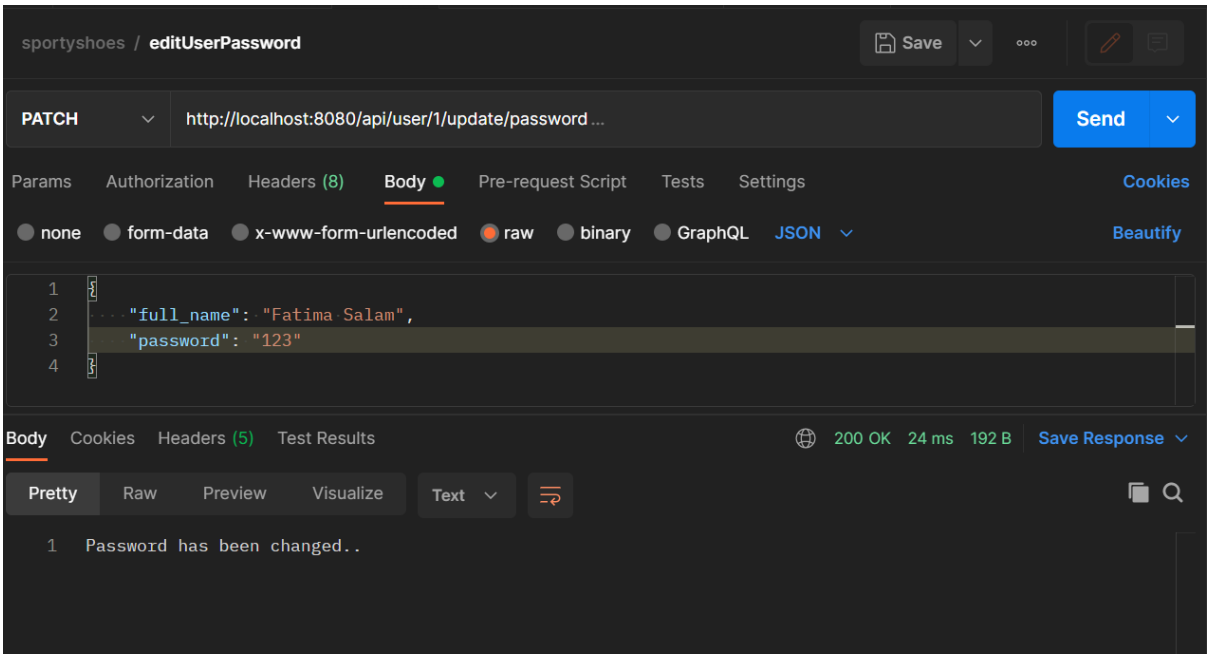
List of all users.



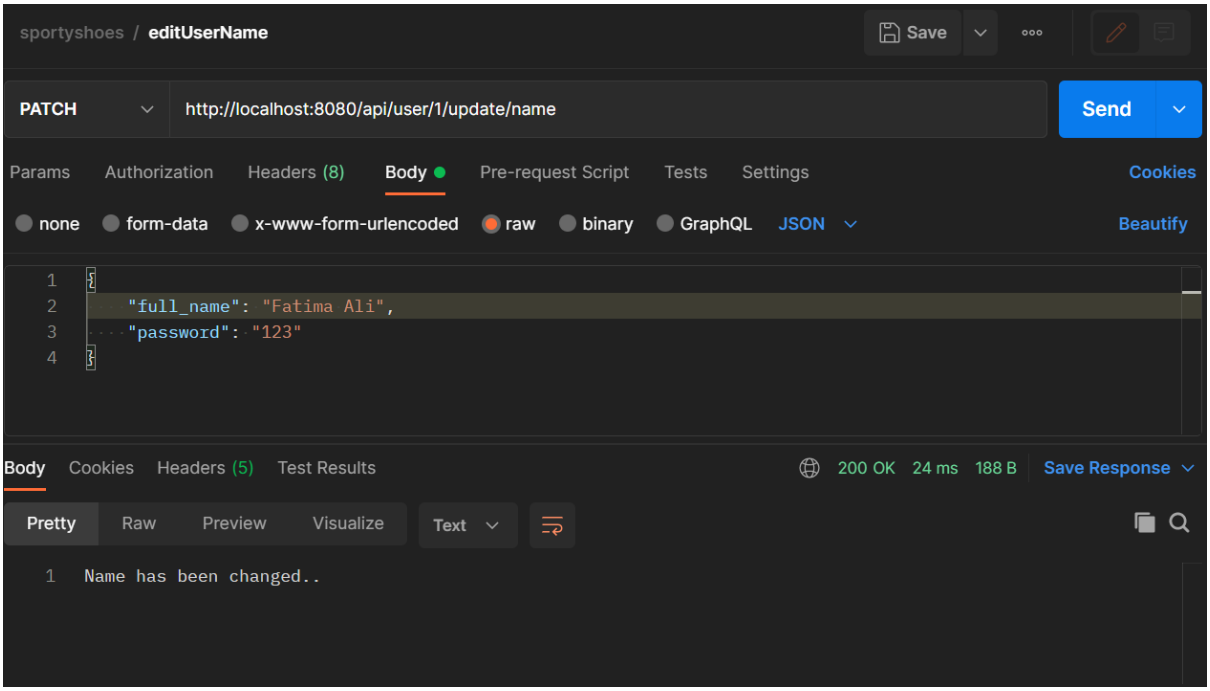
Search user by name.



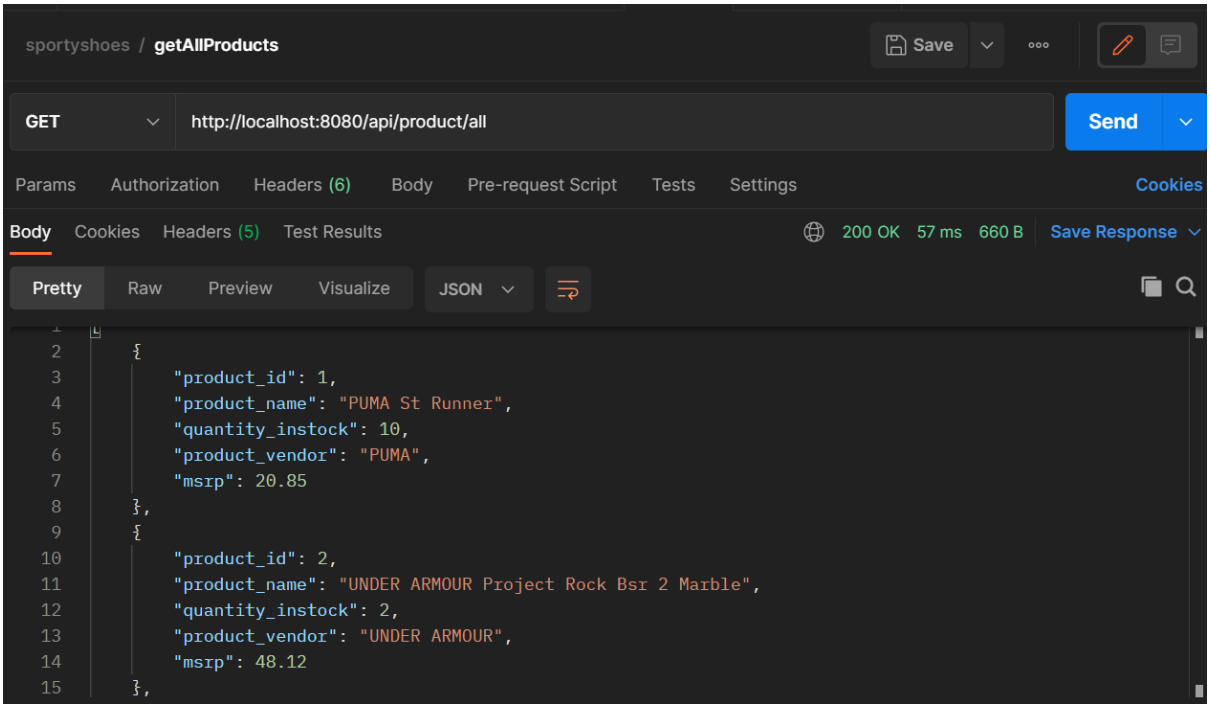
Find user by user_id.



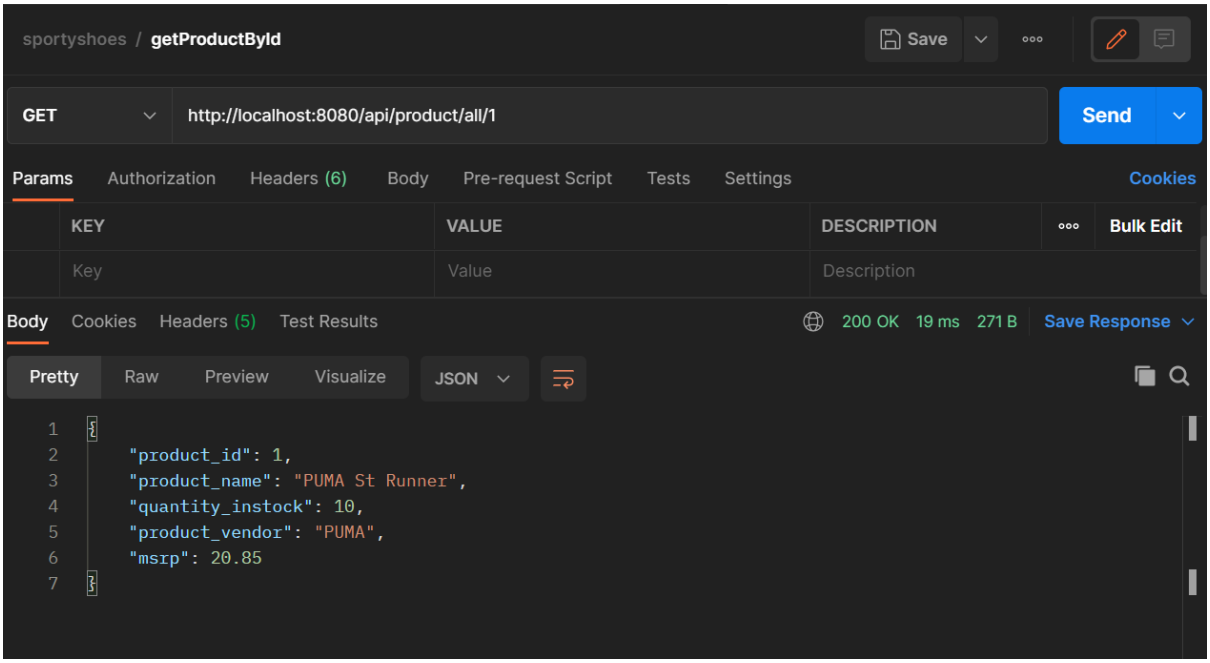
Edit user password.



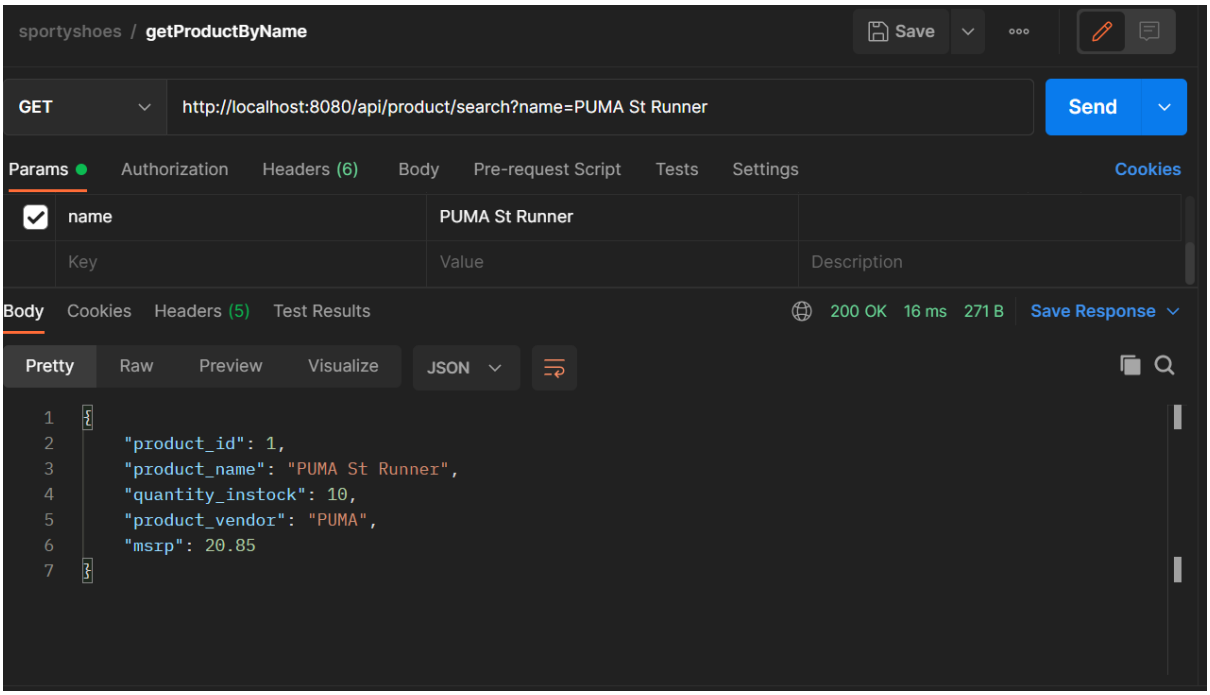
Edit user name.



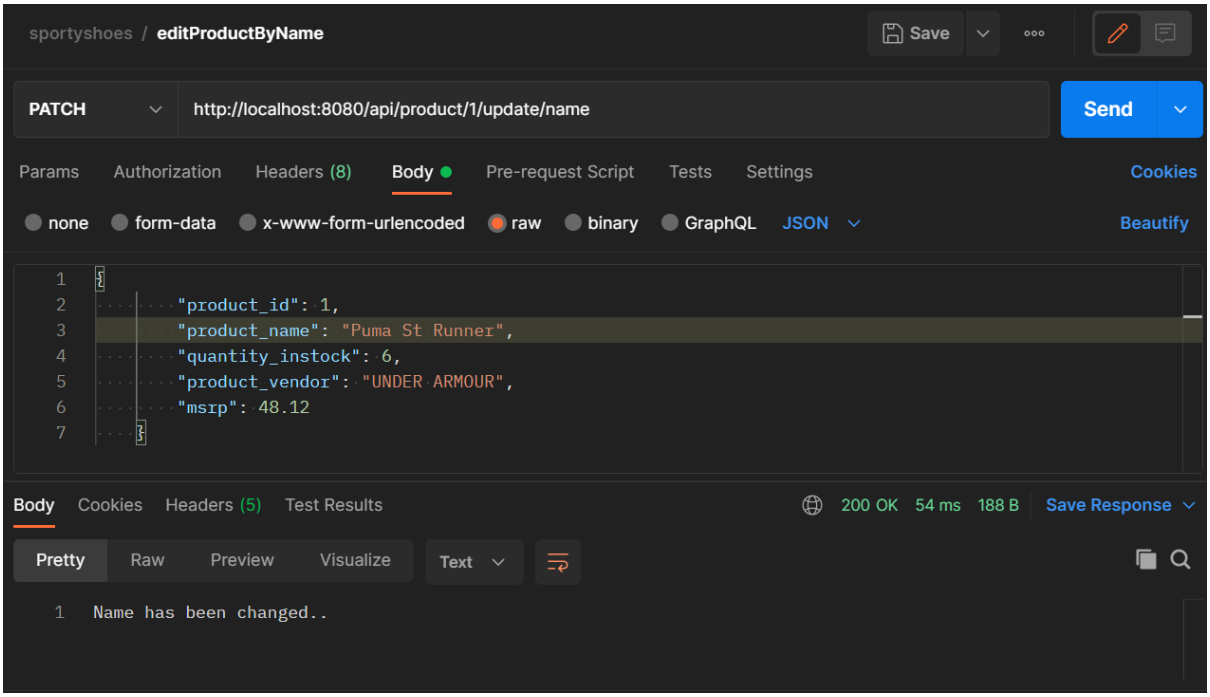
Viewing all products.



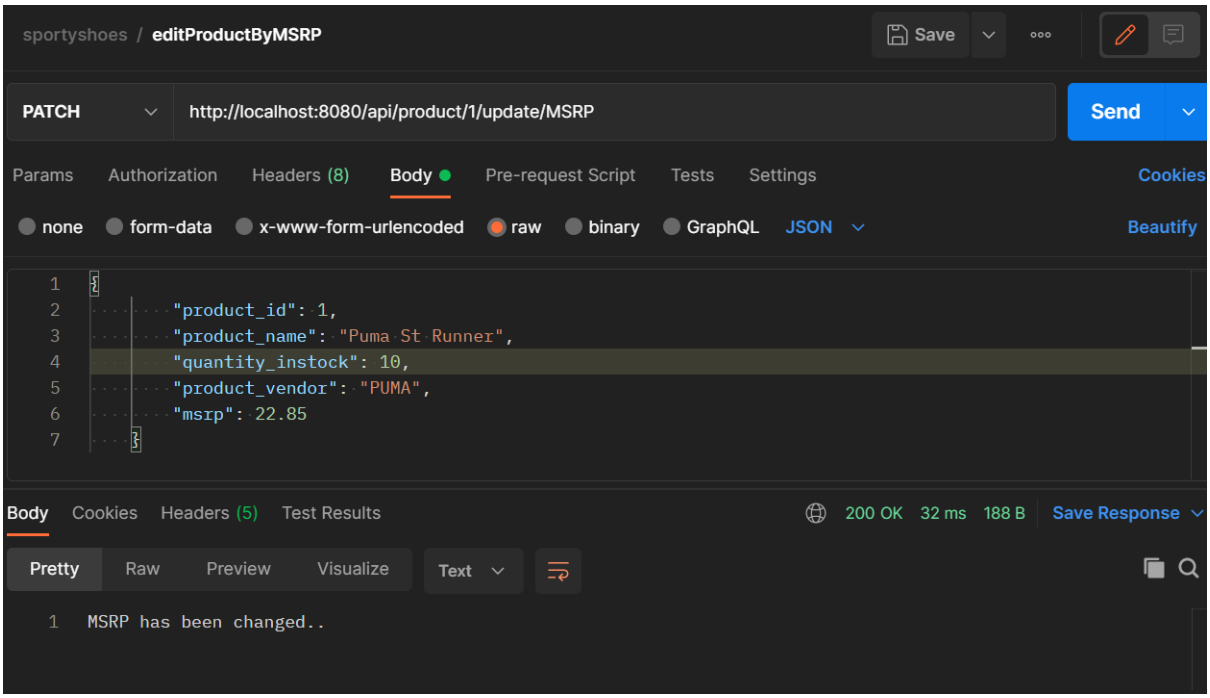
Viewing all products by product_id.



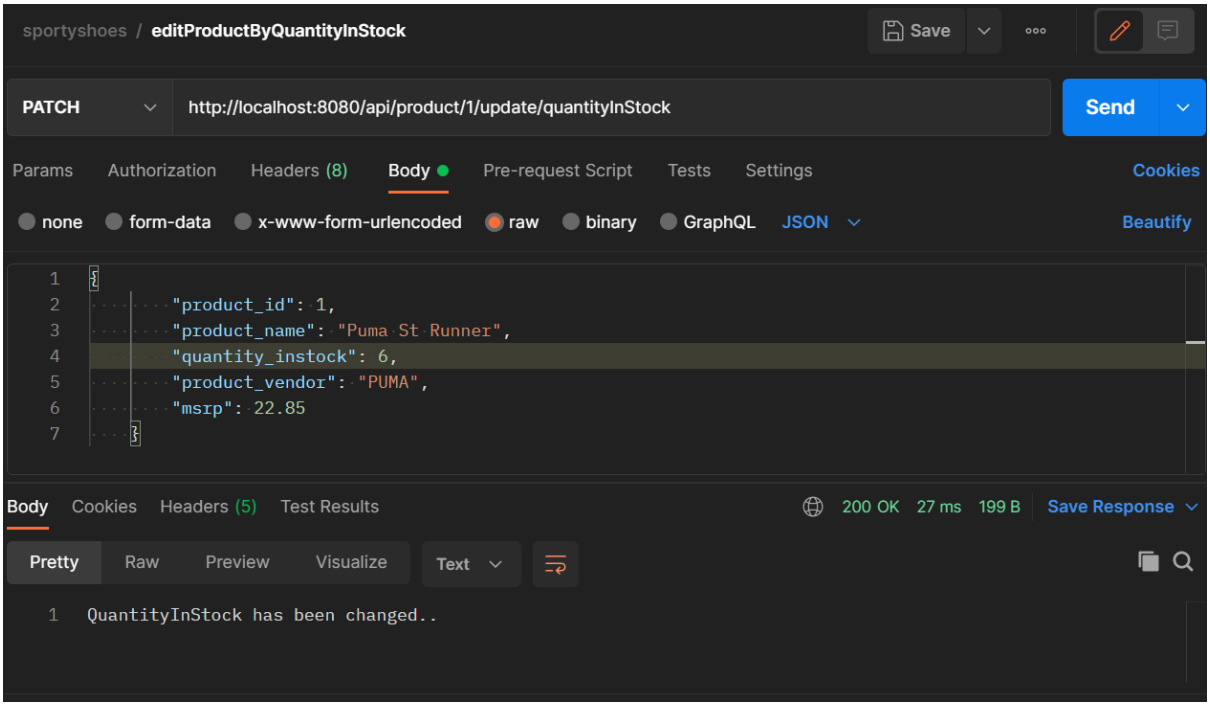
Viewing product by product name.



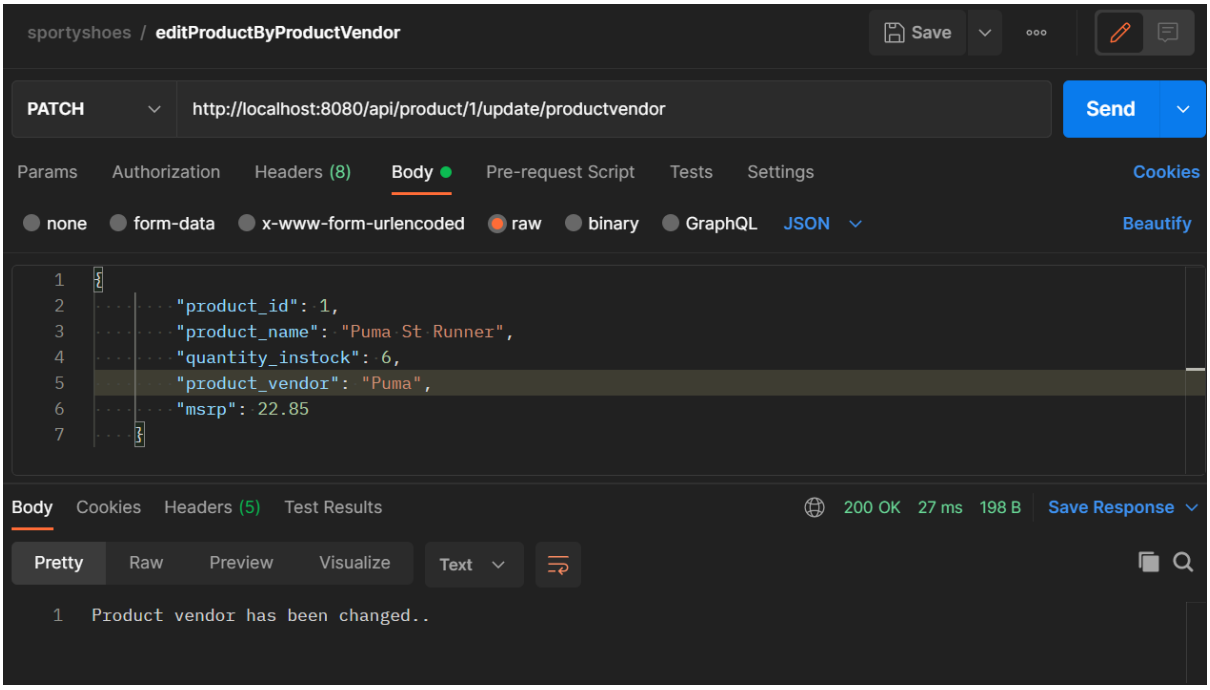
Edit product by name.



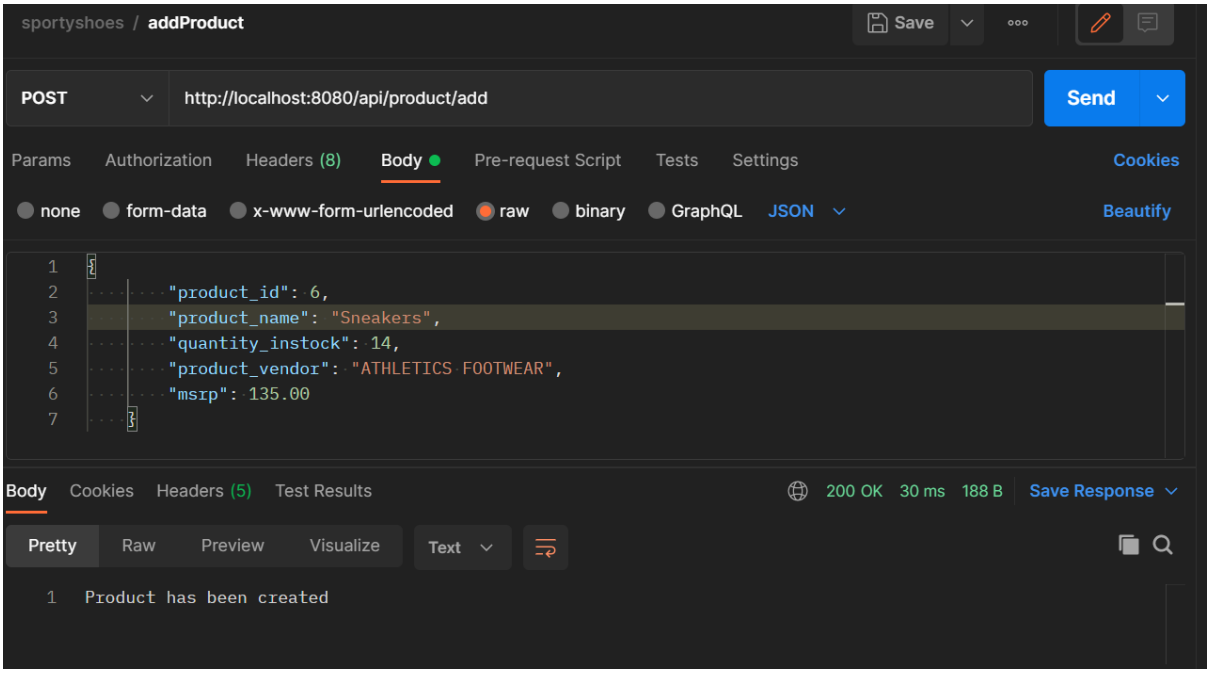
Edit product by MSRP.



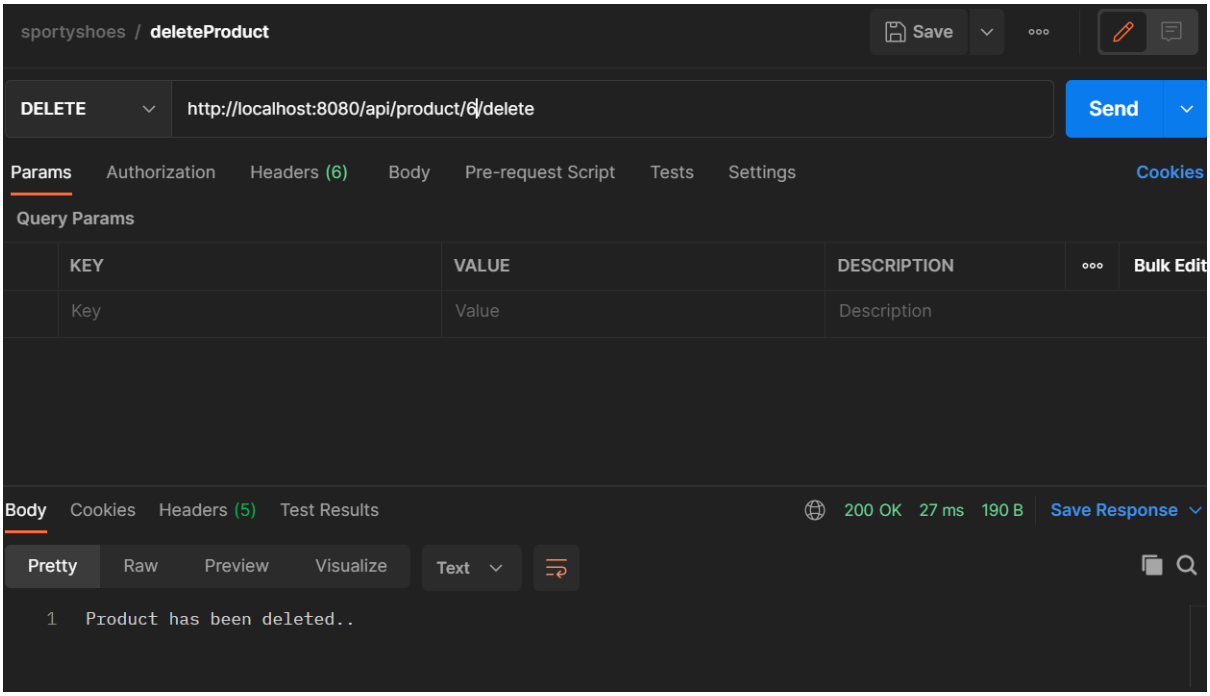
Edit product by quantity in stock.



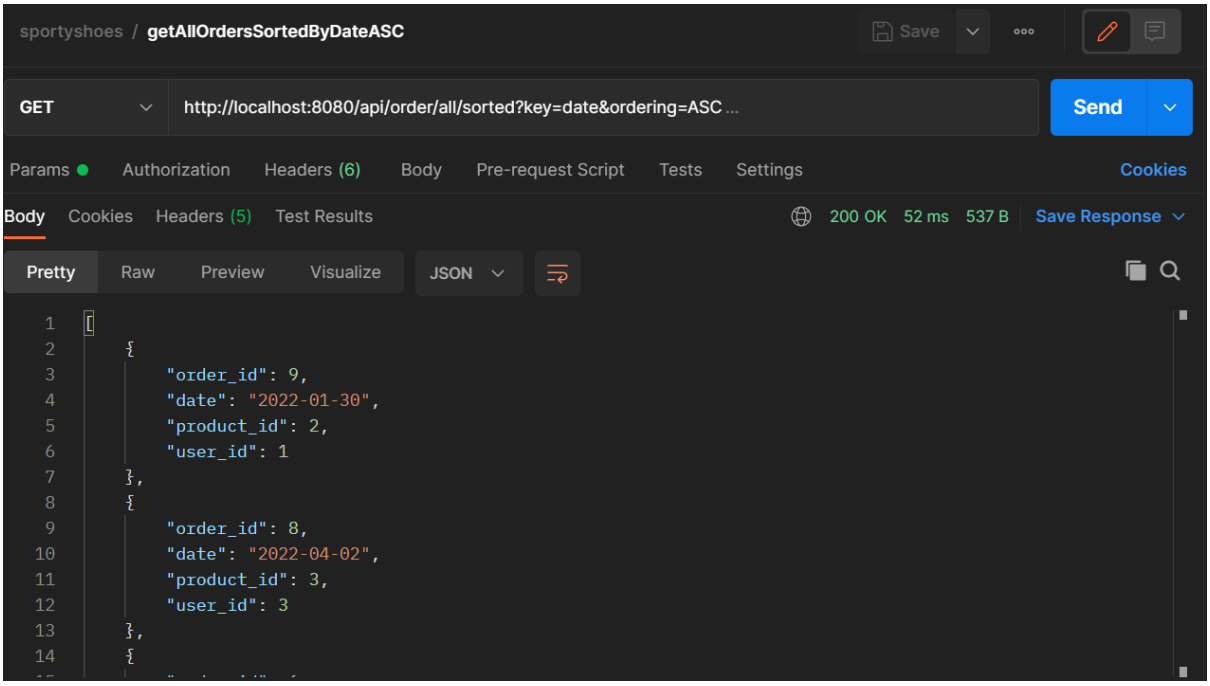
Edit product by product vendor.



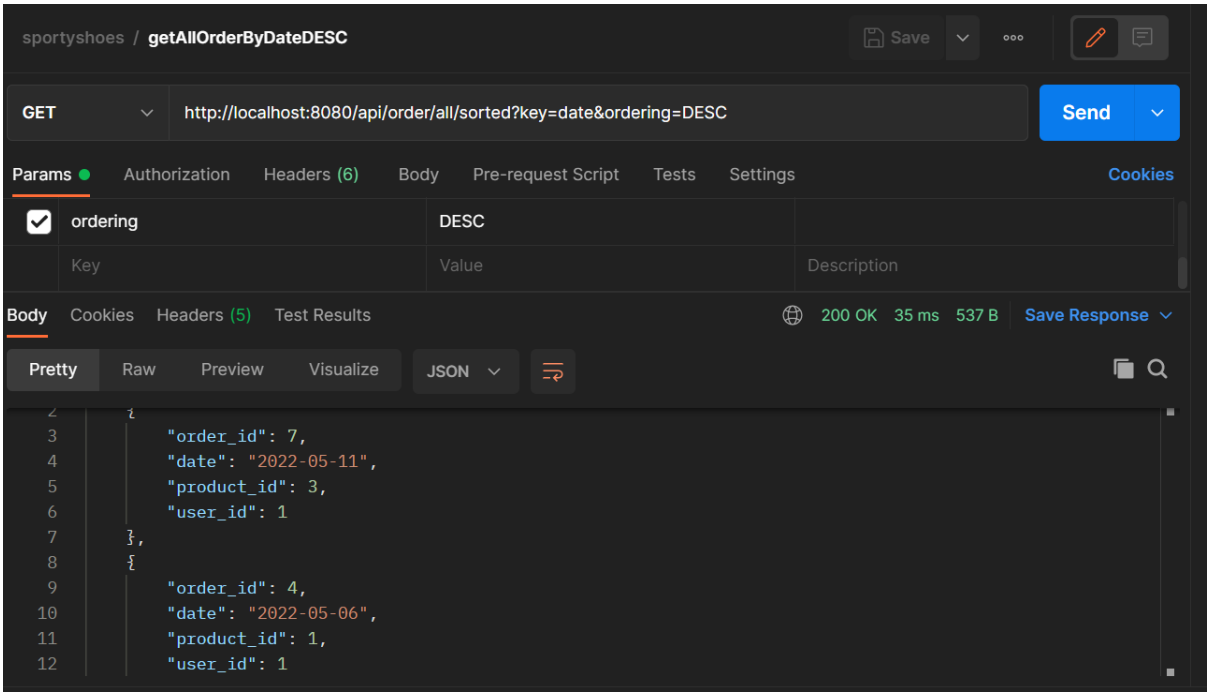
Add a product.



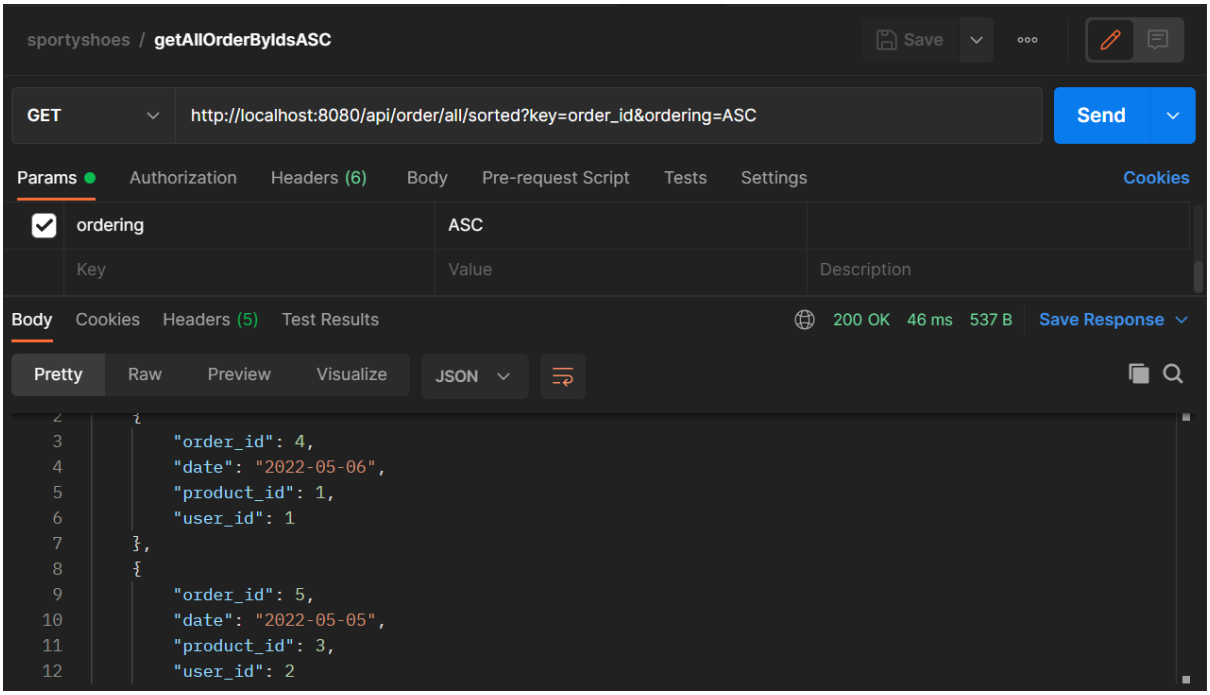
Delete a product.



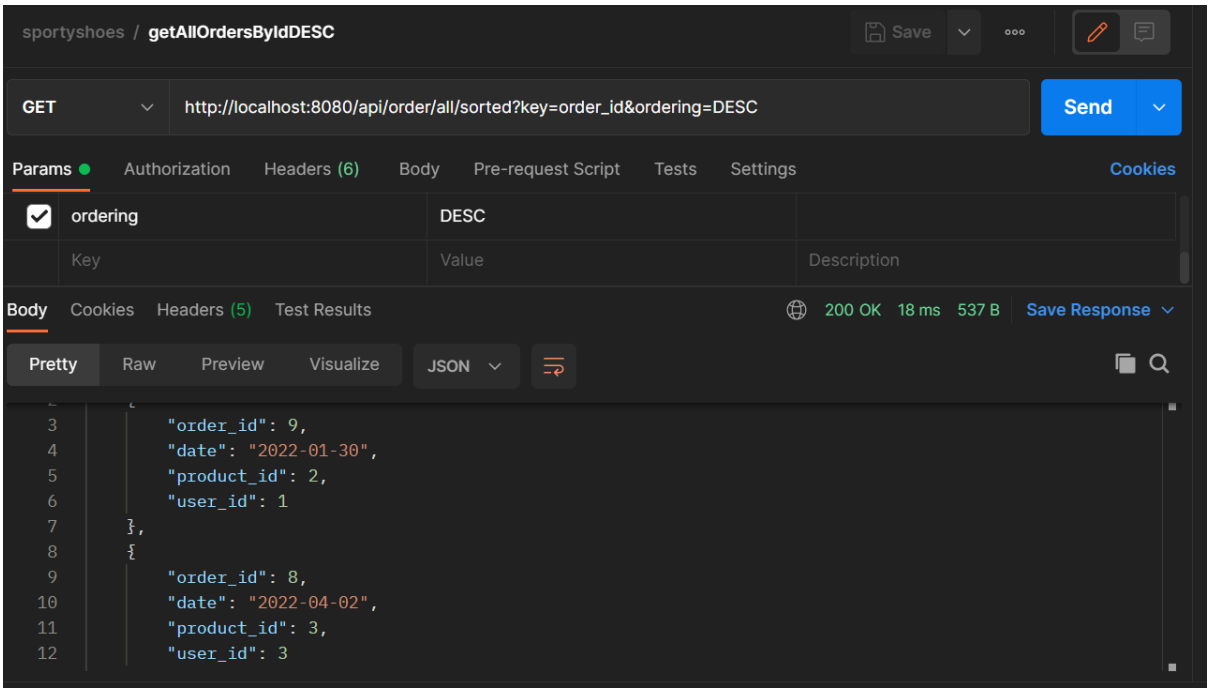
All orders sorted by order date ascending.



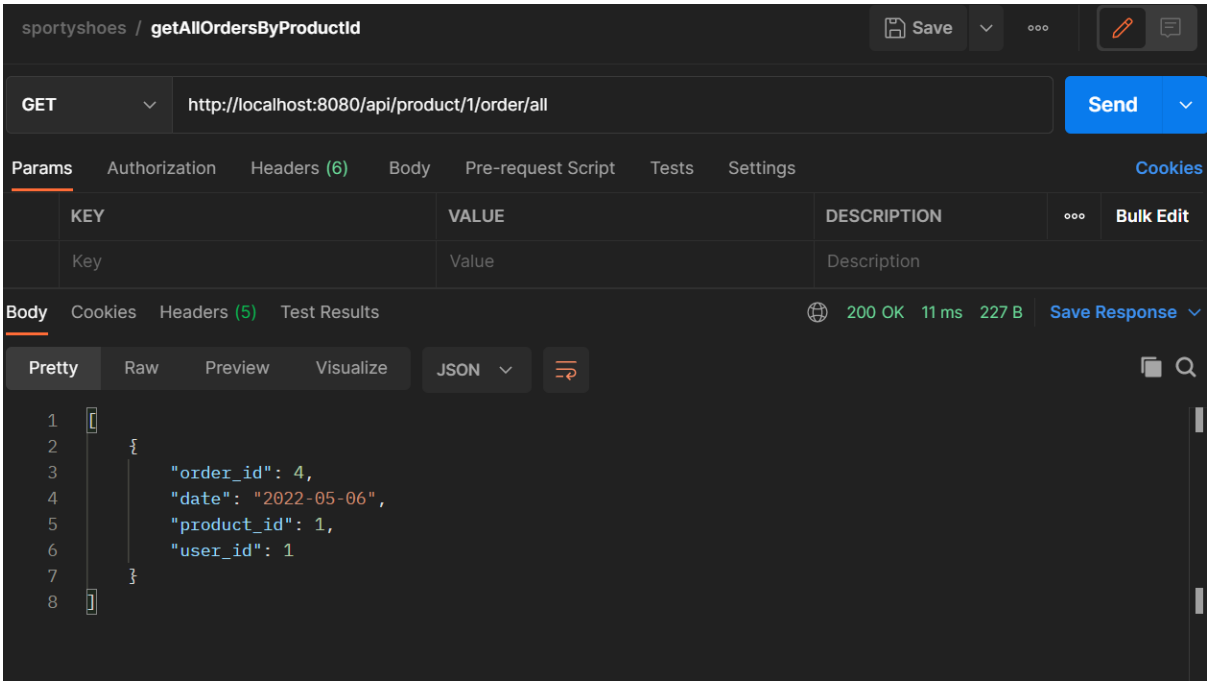
All orders sorted by order date descending.



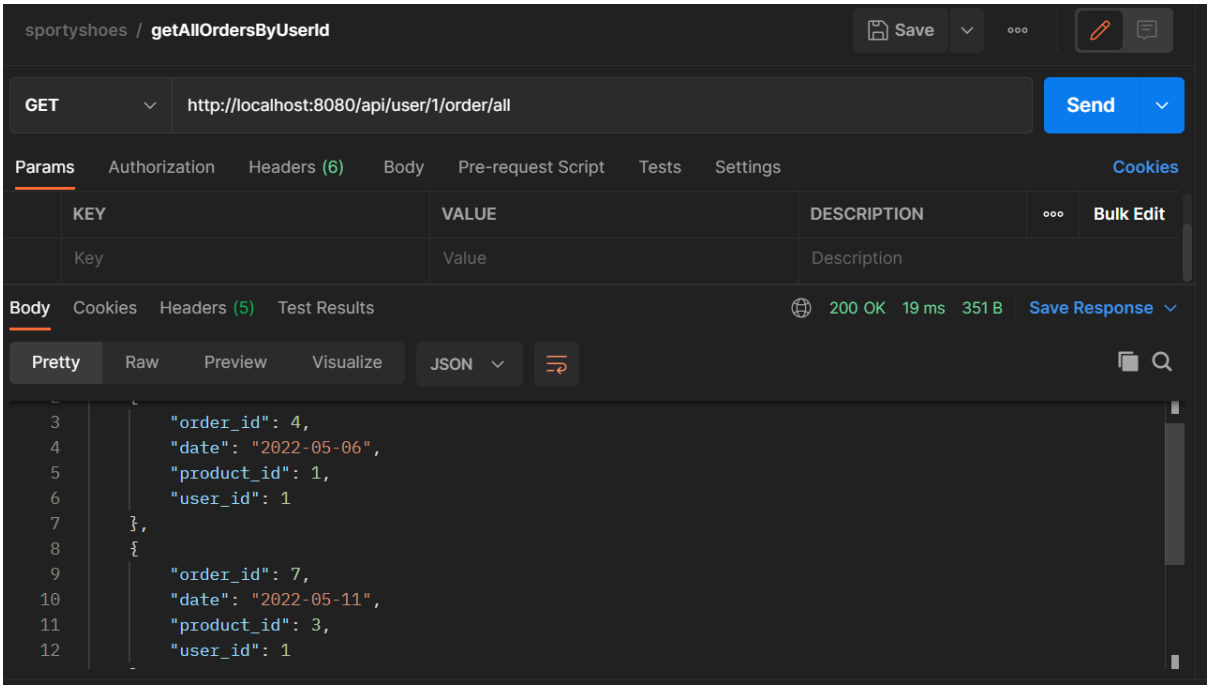
All orders sorted by order id ascending.



All orders sorted by order id descending.



All orders by product id.



All orders by user id.

To conclude, this project will help the admin a lot in his/her everyday use. It is developed in a way to make their life easier as it is user-friendly and easy to learn. In the future, we would like to add a frontend website so that its easier. This project aims to design and develop a backend sporty shoes website spring boot framework. The goal of this project is to apply JDBC concepts and spring boot.

This is the link to github:

https://github.com/rahafAlrabeea/sportyshoes.com

you will also find the code of the database below.

```
CREATE SCHEMA `sportyshoes` ;
use sportyshoes;

CREATE TABLE `users` (
  `user_id` int NOT NULL AUTO_INCREMENT,
   `full_name` varchar(200) NOT NULL,
  `password` varchar(55) NOT NULL,
   primary key (`user_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

INSERT INTO `users` ( `full_name`, `password`) VALUES
( 'Fatima Salam', '1234'),
( 'Abdulaziz Jassim', '1234'),
( 'Dalal Fahad', '1234');

CREATE TABLE `admins` (
  `admin_id` int NOT NULL AUTO_INCREMENT,
  `admin_name` varchar(55) NOT NULL,
  `password` varchar(55) NOT NULL,
   primary key (`admin_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

INSERT INTO `admins` ( `admin_name`, `password`) VALUES
( 'Rahaf Alrabeea', 'admin');
```

```
CREATE TABLE `products` (
  `product_id` int NOT NULL AUTO_INCREMENT,
   `product_name` varchar(200) NOT NULL,
  `MSRP` decimal(5,2) NOT NULL,
  `quantity_instock` int NOT NULL,
  `product_vendor` varchar(55) NOT NULL,
   primary key (`product_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

INSERT INTO `products` ( `product_name`,  `MSRP`, `quantity_instock`,`product_vendor`) VALUES
( 'PUMA St Runner', 20.85,10,'PUMA'),
( 'UNDER ARMOUR Project Rock Bsr 2 Marble', 48.12, 2,'UNDER ARMOUR'),
( 'SKECHERS Summits',15.70 ,40,'SKECHERS');

CREATE TABLE `orders` (
  `order_id` int NOT NULL AUTO_INCREMENT,
   `date` date NOT NULL,
  `user_id` int NOT NULL,
 `product_id` int NOT NULL,
   primary key (`order_id`),
   foreign key (`user_id`) references `users`(`user_id`),
   foreign key (`product_id`) references `products`(`product_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

INSERT INTO `orders` ( `date`, `user_id`, `product_id`) VALUES
( '2022-5-6', 1,6),
( '2022-5-5',2,4),
( '2022-5-1',3,5),
( '2022-05-11', '1', '3'),
('2022-04-2', '3', '3'),
('2022-01-30', '1', '2');
```