



Faculty of Computer Science

CS425

Website by Microservices

(3 microservices, React.js, Nodejs, Postman)

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User Microservices

• Signup/Login Microservice Schema

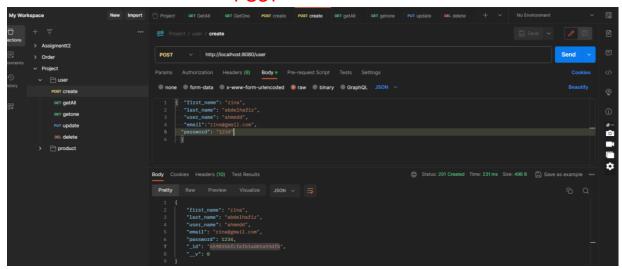
https://schema.getpostman.com/json/collection/v2.1.0/collection.json

```
TS user.model.ts X
          Click here to ask Blackbox to help you code faster |
         import { Schema,Document,model } from 'mongoose';
         export interface User extends Document [
           readonly password: Number;
           first name: {
            type: String,
            required: true,
           last_name: {
            required: true,
           user name: {
            required: true,
           email: {
           type: Number, required: true,
         export const UserModel = model<User>('UserSchema', UserSchema);
G CONSOLE TERMINAL PORTS SEARCH ERROR POSTMAN CONSOLE COMMENTS
                    LOG [RouterExplorer] Mapped {/user/:id, DELETE} route +1ms
LOG [NestApplication] Nest application successfully started +5ms
024, 6:56:48 PM
 Explain Code Comment Code Code Chat Search Error
```

Here the Signup Schema it Contains 'First name, Last name, Id, Email, password' All of these it's a type of string that can be taken from the user and we got it in the database by POST, GET, DELETE and PUT.

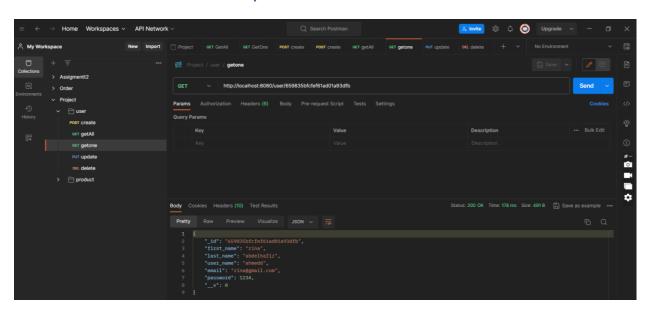
• Signup POSTMAN test.

POST



http://localhost:8080/user

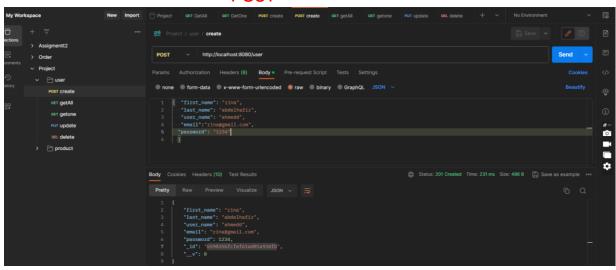
• GET ONE by id



http://localhost:8080/user/659835bfcfef61ad01a93dfb

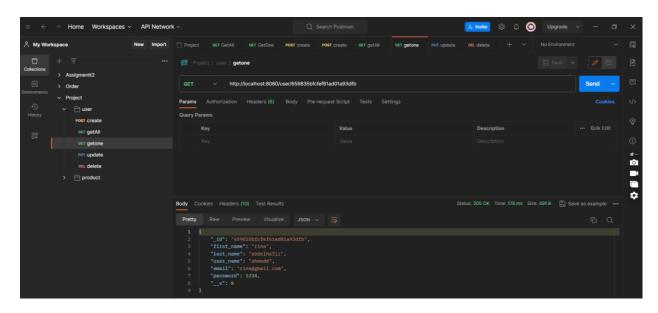
• Signup POSTMAN test.





http://localhost:8080/user

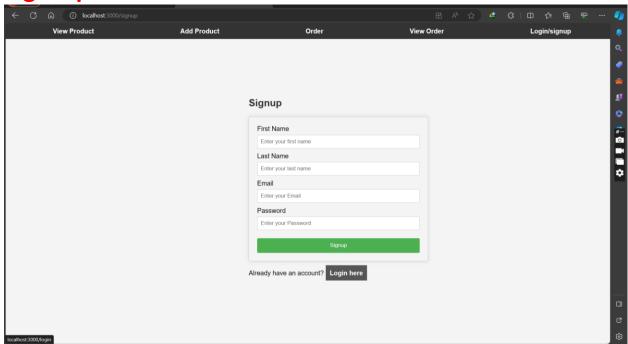
• GET ONE by id



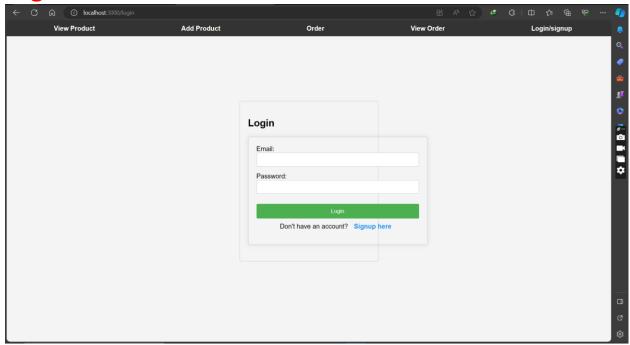
http://localhost:8080/user/659835bfcfef61ad01a93dfb

• React App (Frontend)

Sign-Up



Login-In



Product Microservices

Product Microservice Schema

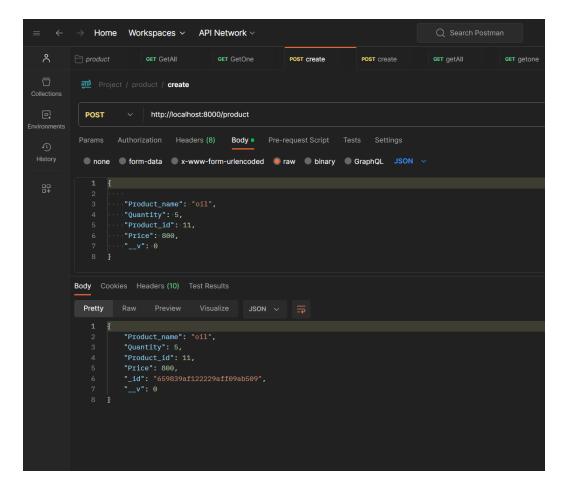
https://schema.getpostman.com/json/collection/v2.1.0/collection.json

```
Click here to ask Blackbox to help you code faster |
import { Schema, Document, model } from 'mongoose';
export interface Product extends Document {
 Product_name: string;
 Quantity: number;
 Product_id: number;
export const ProductSchema = new Schema<Product>({
 Product name: {
   required: true,
 Quantity: {
  type: Number,
   required: true,
 Product id: {
   type: Number,
   required: true,
   unique: true,
   type: Number,
   required: true,
export const ProductModel = model<Product>('Product', ProductSchema);
```

Here the Product Schema it Contains 'Product name, Quantity, Product-id, Price All of these it's a type of string that can be taken from the user and we got it in the database by POST, GET, DELETE and PUT.

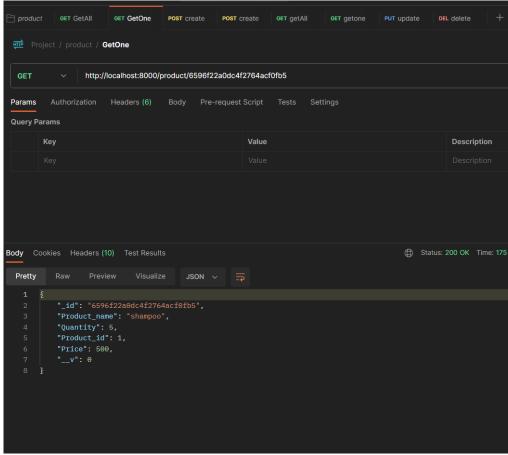
• Product POSTMAN test.

POST



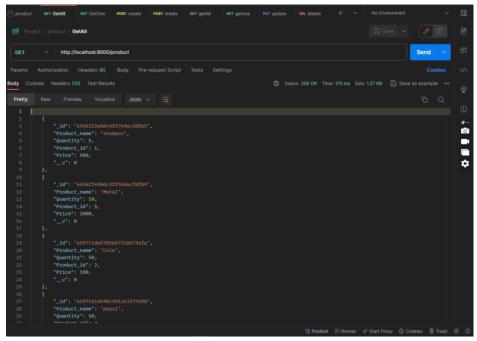
http://localhost:8000/product

• GET ONE by id



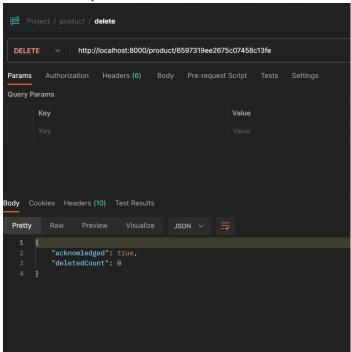
http://localhost:8000/product/6596f22a0dc4f2764acf0fb5

• GET ALL



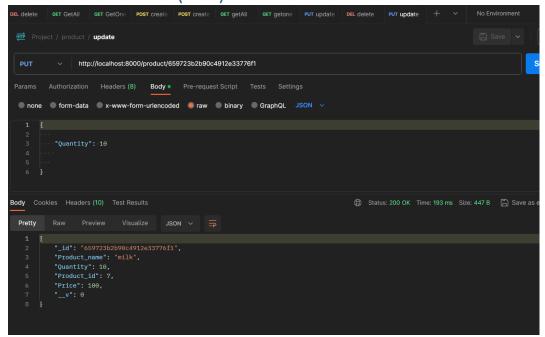
http://localhost:8000/product

• DELETE by id



http://localhost:8000/product/6597319ee2675c07458c13fe

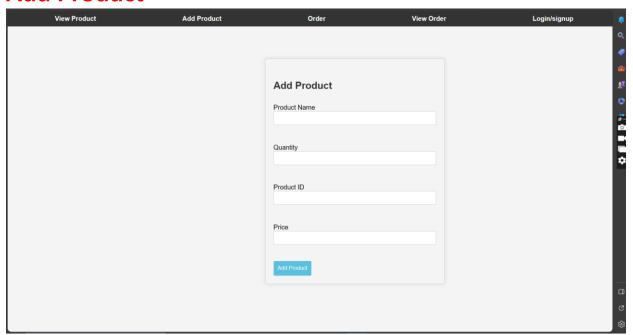
UPDATE(PUT)



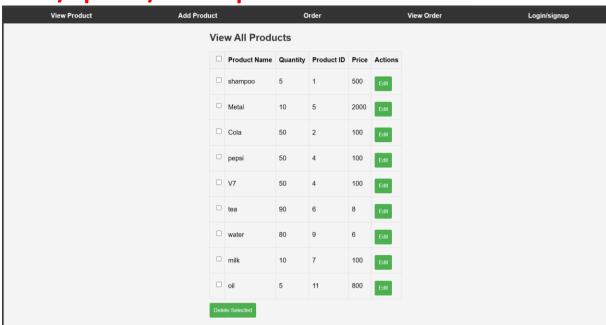
http://localhost:8000/product/659723b2b90c4912e33776f1

• React App (Frontend)

Add Product



View/update/delete product



❖Order Microservices

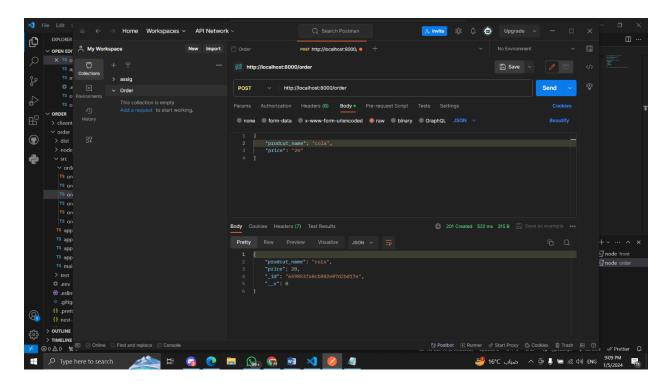
• Order Microservice Schema

```
| Sorder.modelts | Sord
```

Here the Order Schema it Contains 'Product name, Price All of these it's a type of string that can be taken from the user and we got it in the database by POST, GET, DELETE and PUT.

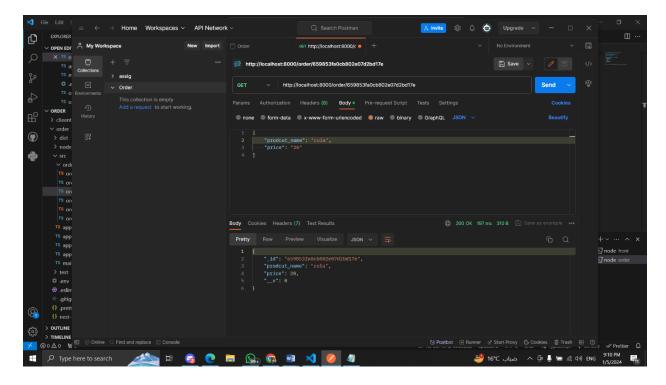
• Order POSTMAN test.

POST



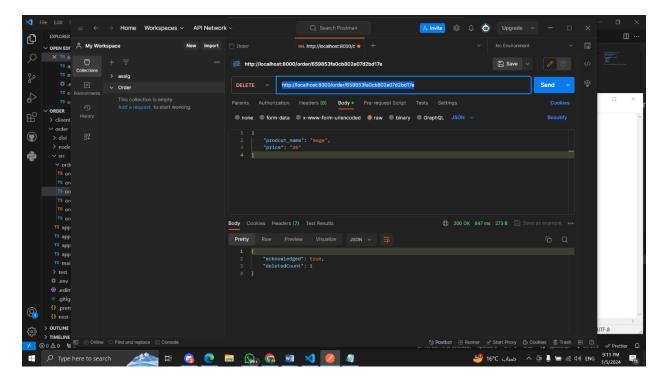
http://localhost:8000/order

• GET ALL



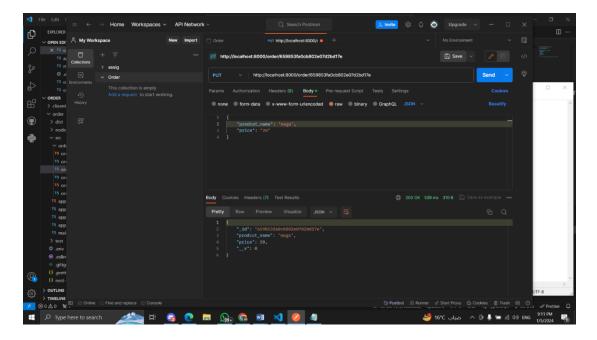
http://localhost:8000/order/659853fa0cb802e07d2bd17e

• DELETE by id



http://localhost:8000/order/659853fa0cb802e07d2bd17e

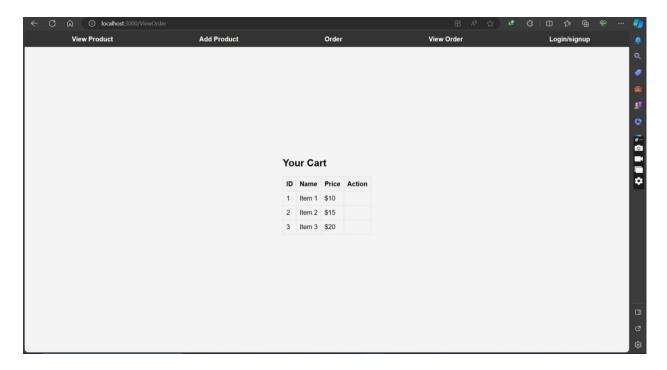
UPDATE(PUT)



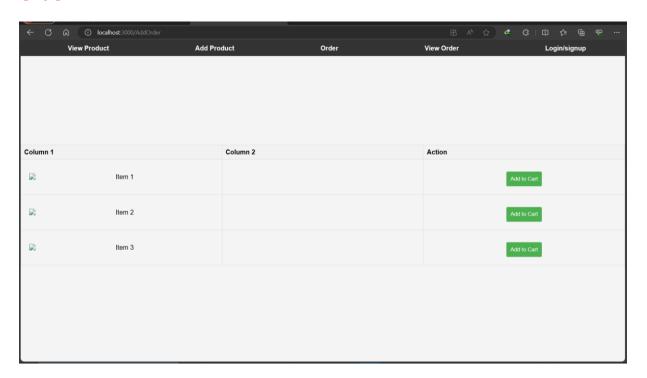
http://localhost:8000/order/659853fa0cb802e07d2bd17e

❖ React App (Frontend)

View Cart



Order



❖Apps we used:

- **Visual studio code** (React.js For Frontend, Nest.js For microservice)
- Postman (For test API)

❖GitHub Link:

https://github.com/rowanabdelhafiz/cs425