# Triveous BACKEND ASSIGNMENT: "E-commerce API"

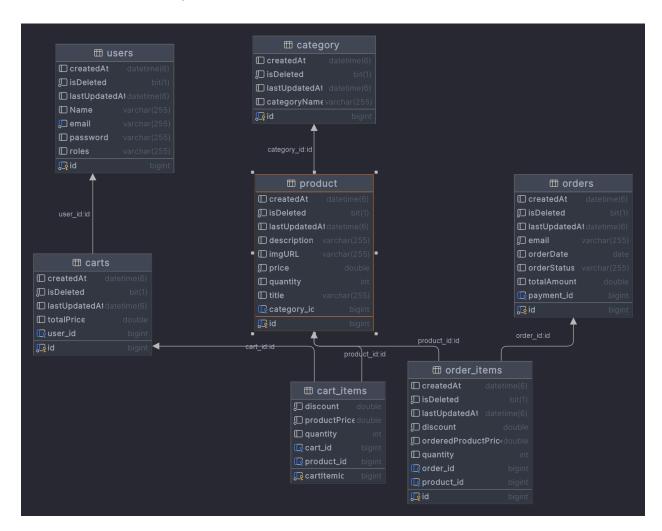
We have different services in E-commerce Backend API.

#### Services:

User Service Cart Service Order Service Category Service Product Service

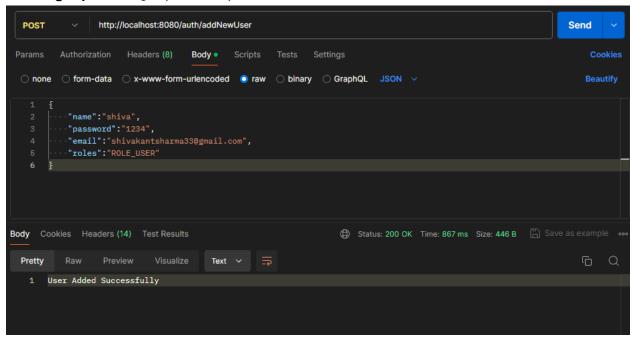
User Service contains user signup,user login.We have two types of users-Admin and Normal user

Below is the schema Diagram.



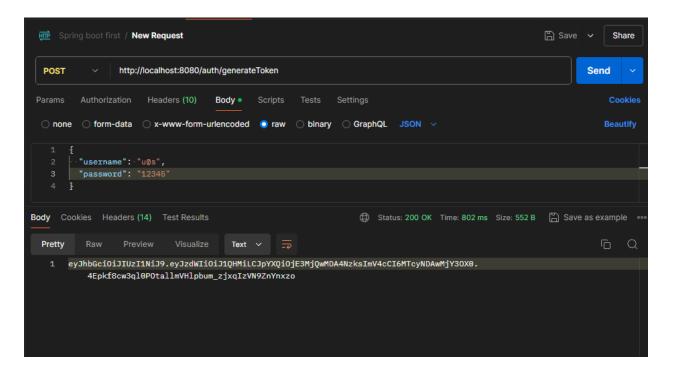
#### **User Service**

User Signup: User Sign up will take place in two roles ADMIN and USER

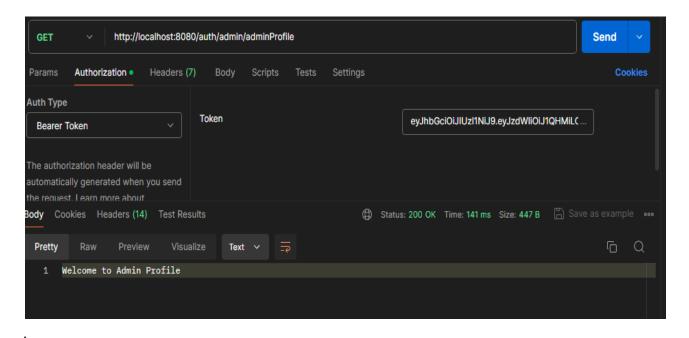


User login generates JWT token which requires for making any other request in API. Admin can access every path and user can only access public path.

Here I have generated admin token for making changes in Project.

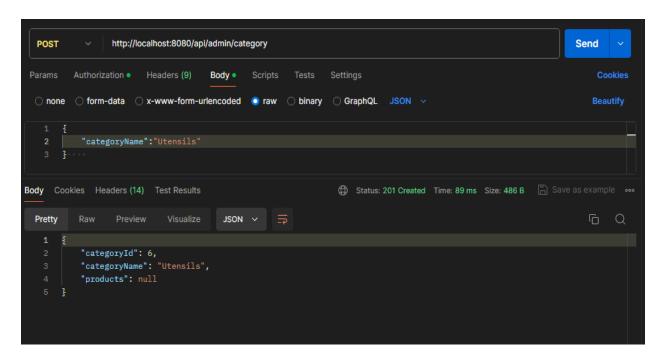


## User validation by Token



## **Category Service**

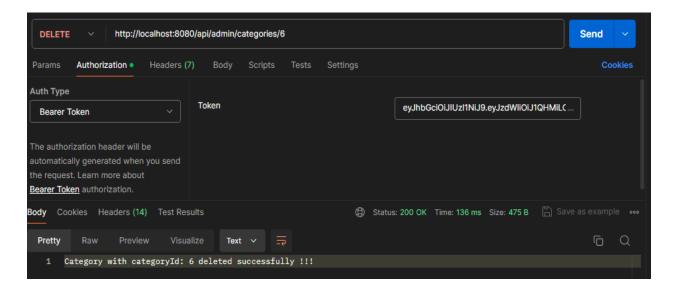
Add Category- Only admin can add a new category



## Get all Categories-admin and general user both can see all categories

```
http://localhost:8080/api/public/categories
                                                                                                                           Send
  GET
Body Cookies Headers (14) Test Results
                                            JSON V =
  Pretty
                "categoryId": 1,
"categoryName": "Electronics"
                "categoryId": 2,
                "categoryName": "Grocery"
                "categoryId": 3,
                "categoryName": "Cloths"
                "categoryId": 4,
                "categoryName": "Books"
                "categoryId": 5,
                "categoryName": "Furniture"
                "categoryId": 6,
                "categoryName": "Utensils"
```

**Delete category**- only admin can delete a category.



#### **Cart Services**

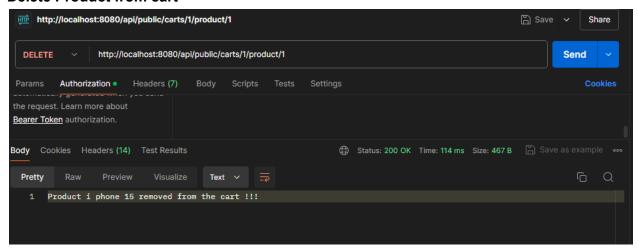
**Add Product to cart**-It will create cart, if cart does not exist and add product into it . If Cart already exists then add product into it.

```
POST
                    http://localhost:8080/api/public/carts/1/products/4/quantity/2/user/2
                                                                                                                                        Send
Params
          Authorization • Headers (8) Body Scripts Tests Settings
Body Cookies Headers (14) Test Results
 Pretty
                                              JSON V
            "cartId": 1,
"totalPrice": 1735000.0,
            "totalQuantity": 18,
            "products": [
                      "price": 55000.0,
                     "description": "good phone",
"imgURL": "default.png",
"category": "Electronics",
                      "quantity": 10,
                      "id": 1
                     "imgURL": null,
                      "category": "Electronics",
                      "quantity": 6,
                      "id": 2
```

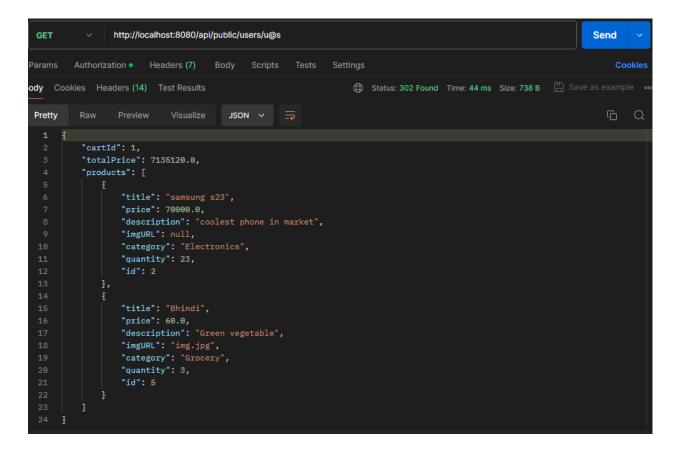
#### Get all the carts- Only admin can get all the carts

```
GET
                   http://localhost:8080/api/admin/carts
                                                                                                                                  Send
                                          Body Scripts Tests Settings
ody Cookies Headers (14) Test Results
                                                                          Status: 302 Found Time: 81 ms Size: 1002 B 🖺 Save as example
 Pretty
                                Visualize
                                           JSON V
                "cartId": 1,
"totalPrice": 1735000.0,
                         "description": "good phone",
                         "imgURL": "default.png",
"category": "Electronics",
                         "quantity": 8,
                         "id": 1
                         "price": 70000.0,
                         "description": "coolest phone in market",
                         "imgURL": null,
                         "category": "Electronics",
"quantity": 4,
                         "id": 2
```

#### **Delete Product from cart**

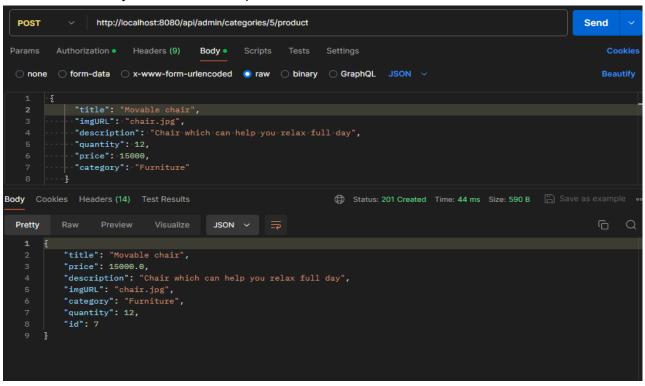


**View cart by user id -** one user has only one cart related to it, but can have multiple order. Once cart converted into order then new cart can be created again.



## **Product Services**

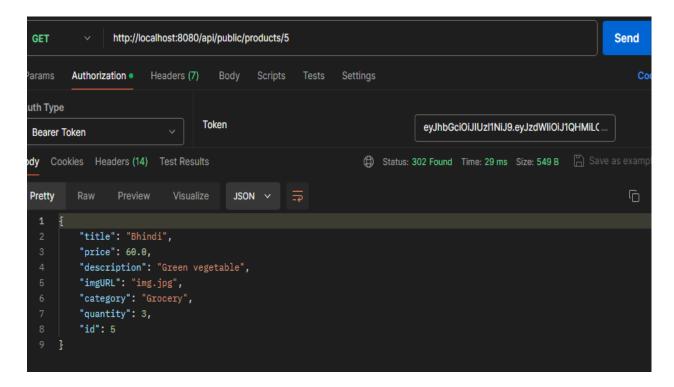
Add Product - only admin can add a product to database.



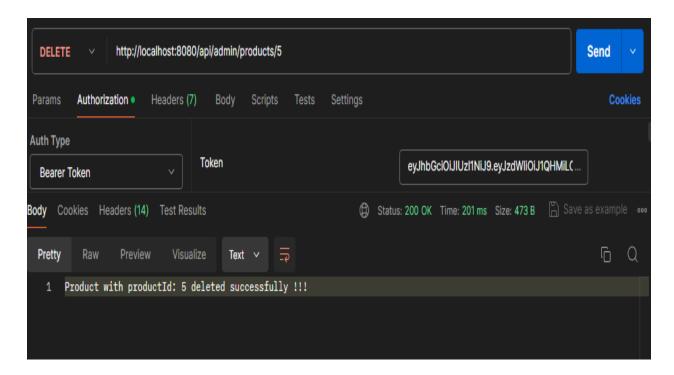
**Get all products**:User and admin both can see all products.

```
GET
                   http://localhost:8080/api/public/products
                                                                                                                               Send
          Authorization • Headers (7) Body Scripts Tests
Params
Rody Cookies Headers (14) Test Results
                                                                       Status: 302 Found Time: 63 ms Size: 1.13 KB Save as example
                              Visualize JSON V
 Pretty
                     "category": "Electronics",
                     "quantity": 20,
                    "id": 4
                    "title": "Bhindi",
                    "price": 60.0,
                    "imgURL": "img.jpg",
"category": "Grocery",
                     "quantity": 3,
                    "price": 15000.0,
                    "imgURL": "chair.jpg",
"category": "Furniture",
                    "quantity": 12,
```

## Get single product: by id



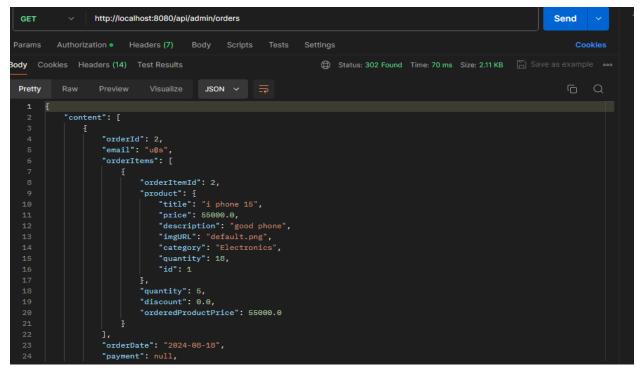
## Delete product: by Id



## **Order Services**

**Create a order by user id**: User can create a order from the cart, once order is created, cart item gets deleted and cart becomes empty. We have created separate table for that cartitem, where the items gets deleted.

**Get all the Generated Orders**: we can get all the orders generated by all the users, only admin can see it.



Get the orders by user id: All the users can can see their order by their user id

