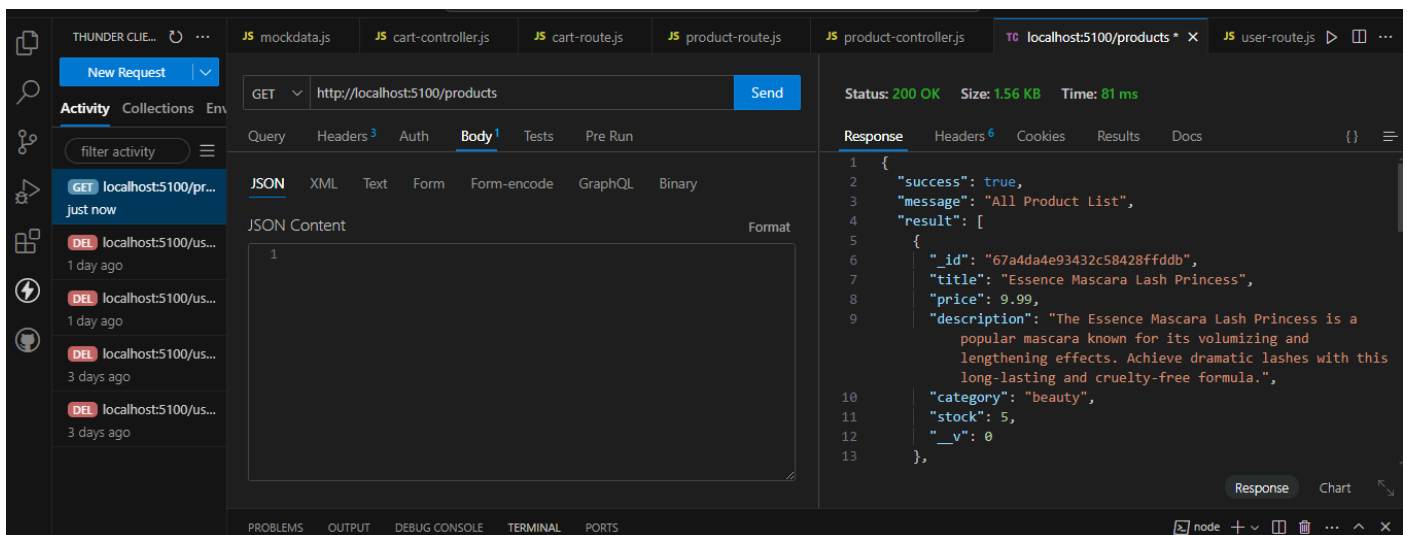


Project: Build APIs with Node.js and Express.js for Shoppyglobe E-commerce

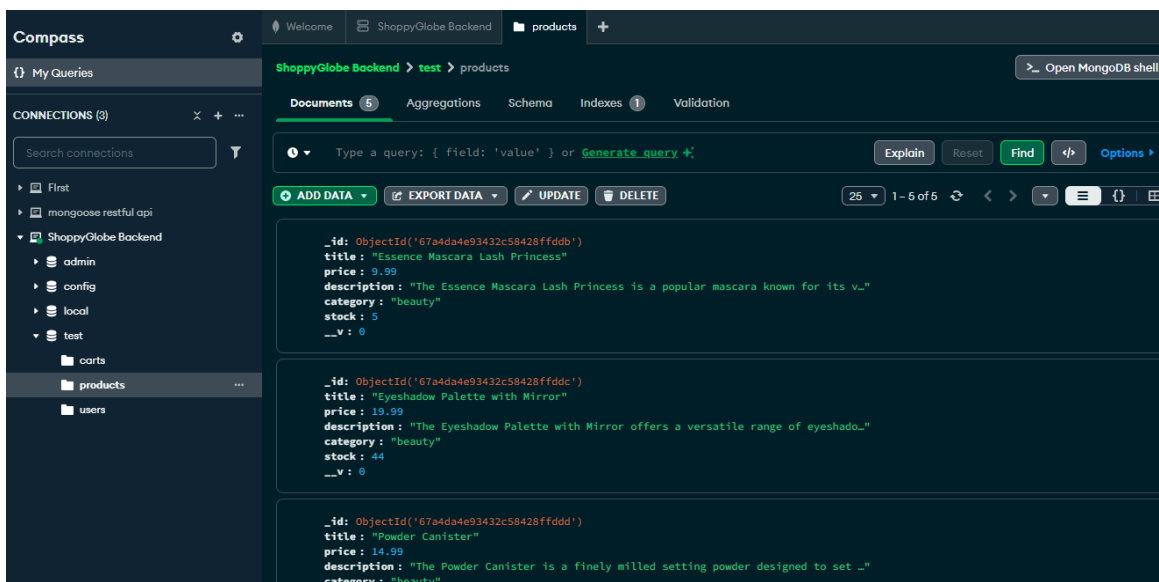
PRODUCT APIS

1. GET /products - Get All Products

Description : Retrieves all products available in the database. Useful for displaying product listings on the website. Fetch using path [“http://localhost:5100/products”](http://localhost:5100/products) and Method **“GET”**

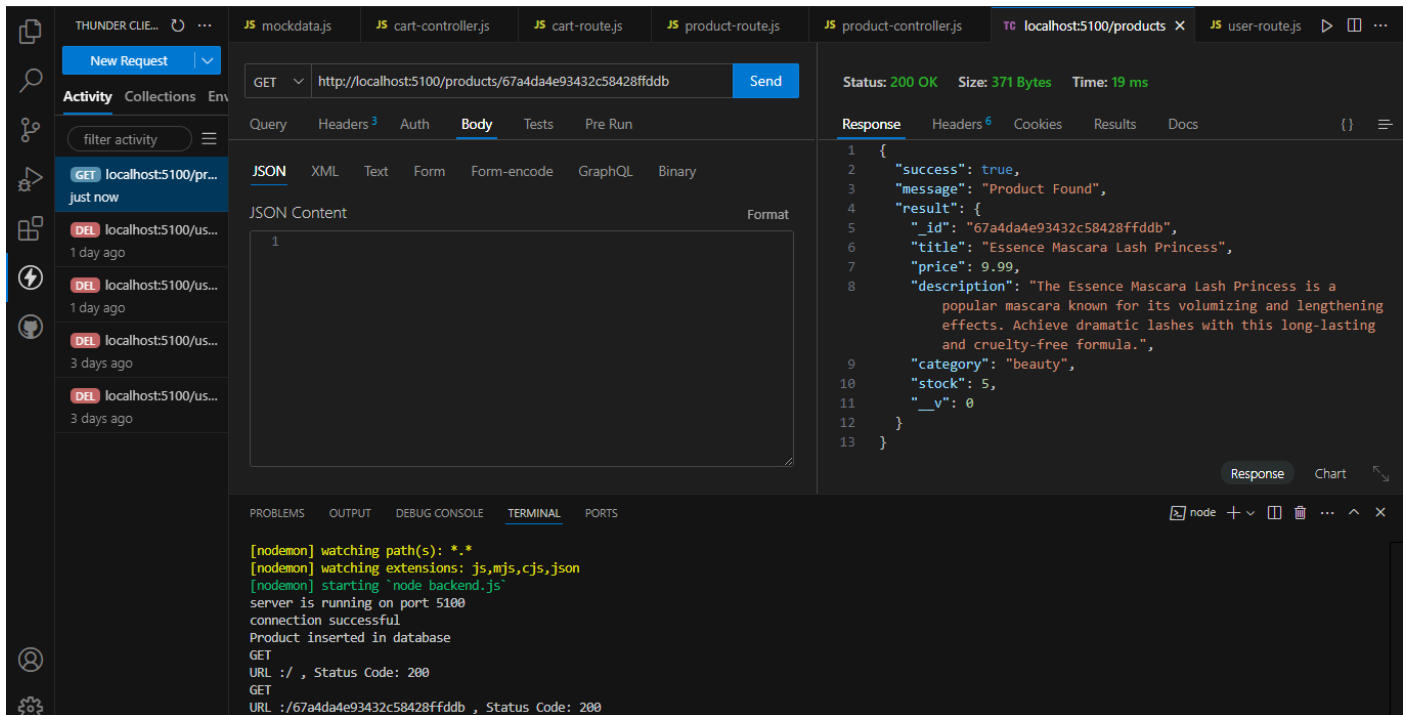


Fetches from MongoDB from Products Collection which is populated initially using mockdata from util section in our code.



2. GET /products/:id - Get Product by ID

Description: Fetches a specific product using its unique ID. This is useful when viewing detailed product information. Fetch using path “<http://localhost:5100/products/:id>” and Method “GET”



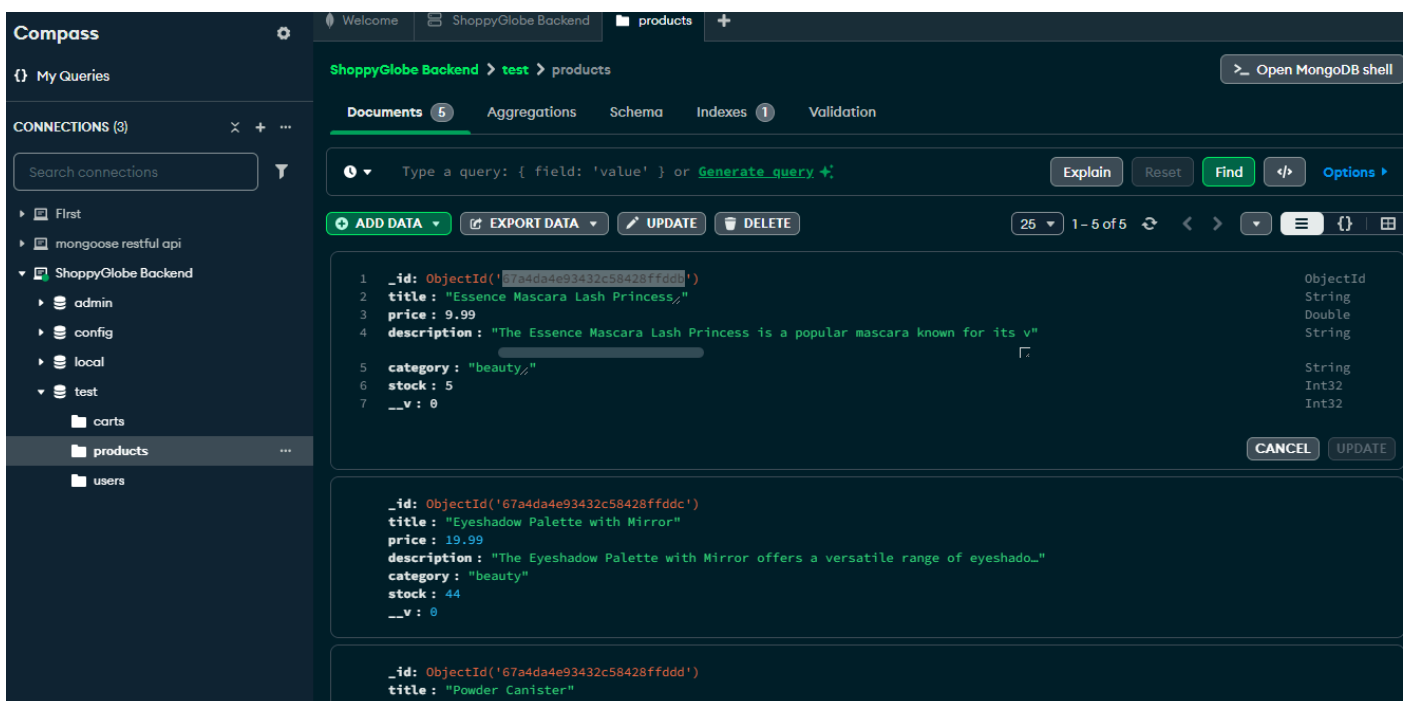
The screenshot shows the Thunder Client interface. The top bar displays the request details: GET http://localhost:5100/products/67a4da4e93432c58428ffddb. The status is 200 OK, size is 371 Bytes, and time is 19 ms. The response body is a JSON object:

```
{
  "success": true,
  "message": "Product Found",
  "result": {
    "_id": "67a4da4e93432c58428ffddb",
    "title": "Essence Mascara Lash Princess",
    "price": 9.99,
    "description": "The Essence Mascara Lash Princess is a popular mascara known for its volumizing and lengthening effects. Achieve dramatic lashes with this long-lasting and cruelty-free formula.",
    "category": "beauty",
    "stock": 5,
    "__v": 0
  }
}
```

The bottom panel shows the terminal output:

```
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node backend.js`
server is running on port 5100
connection successful
Product inserted in database
GET
URL : / , Status Code: 200
GET
URL : /67a4da4e93432c58428ffddb , Status Code: 200
```

Fetches from MongoDB from Here



The screenshot shows the MongoDB Compass interface. The left sidebar displays the database structure: ShoppyGlobe Backend > test > products. The main panel shows the 'products' collection with 5 documents. The first document is expanded, showing the following fields:

```
{
  "_id": ObjectId('67a4da4e93432c58428ffddb'),
  "title": "Essence Mascara Lash Princess",
  "price": 9.99,
  "description": "The Essence Mascara Lash Princess is a popular mascara known for its volumizing and lengthening effects. Achieve dramatic lashes with this long-lasting and cruelty-free formula.",
  "category": "beauty",
  "stock": 5,
  "__v": 0
}
```

The other two documents are also visible in the list below.

3. POST /products - Post New Product in Database

Description: Post a new Product in Database. This is useful when adding new product information post using path

“<http://localhost:5100/products>” and Method “POST”

The screenshot shows the Thunder Client interface. The top bar displays the request method as POST and the URL as http://localhost:5100/products. The 'Send' button is visible. The 'Response' tab is selected, showing a 201 Created status, 348 Bytes size, and 157 ms time. The response body is a JSON object:

```
1 {
2   "success": true,
3   "message": "Product added successfully",
4   "result": {
5     "title": "Calvin Klein CK One",
6     "price": 49.99,
7     "description": "CK One by Calvin Klein is a classic unisex
8                   fragrance, known for its fresh and clean scent. It's a
9                   versatile fragrance suitable for everyday wear.",
10    "category": "fragrances",
11    "stock": 17,
12    "_id": "67a4fb7393432c58428ffde5",
13    "__v": 0
14  }
15 }
```

The bottom panel shows the terminal output:

```
[nodemon] starting 'node backend.js'
server is running on port 5100
connection successful
Product inserted in database
GET
URL : / , Status Code: 200
GET
URL : /67a4da4e93432c58428ffddb , Status Code: 200
POST
```

Posted in MongoDB as well

The screenshot shows the MongoDB Compass interface. The left sidebar displays the 'test' database and the 'products' collection. The main panel shows the 'products' collection with 5 documents. The first document is:

```
{
  "description": "The Red Lipstick is a classic and bold choice for adding a pop of color",
  "category": "beauty",
  "stock": 68,
  "__v": 0
}
```

The second document is:

```
{
  "_id": ObjectId('67a4da4e93432c58428ffddf'),
  "title": "Red Nail Polish",
  "price": 8.99,
  "description": "The Red Nail Polish offers a rich and glossy red hue for vibrant and p...",
  "category": "beauty",
  "stock": 71,
  "__v": 0
}
```

The third document is:

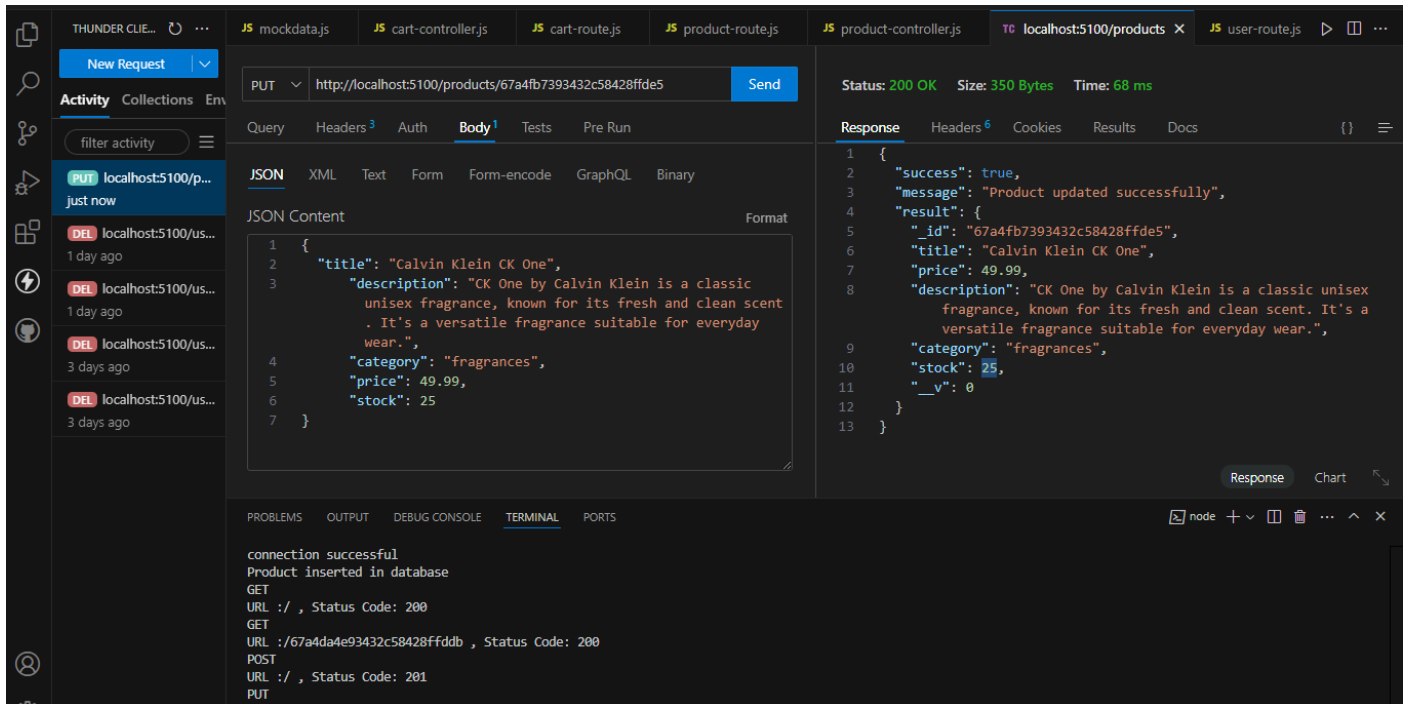
```
{
  "_id": ObjectId('67a4fb7393432c58428ffde5'),
  "title": "Calvin Klein CK One",
  "price": 49.99,
  "description": "CK One by Calvin Klein is a classic unisex fragrance, known for its fr",
  "category": "fragrances",
  "stock": 17,
  "__v": 0
}
```

The right sidebar shows the schema for the third document:

```
{
  "_id": ObjectId,
  "title": String,
  "price": Double,
  "description": String,
  "category": String,
  "stock": Int32,
  "__v": Int32
}
```

4. PUT /products - Update Product in Database

Description: Update Product in Database. This is useful when updating product information using path “<http://localhost:5100/products/:id>” and Method “PUT”



Thunder Client interface showing a PUT request to `http://localhost:5100/products/67a4fb7393432c58428ffde5`. The request body is a JSON object:

```
{
  "title": "Calvin Klein CK One",
  "description": "CK One by Calvin Klein is a classic unisex fragrance, known for its fresh and clean scent. It's a versatile fragrance suitable for everyday wear.",
  "category": "fragrances",
  "price": 49.99,
  "stock": 25
}
```

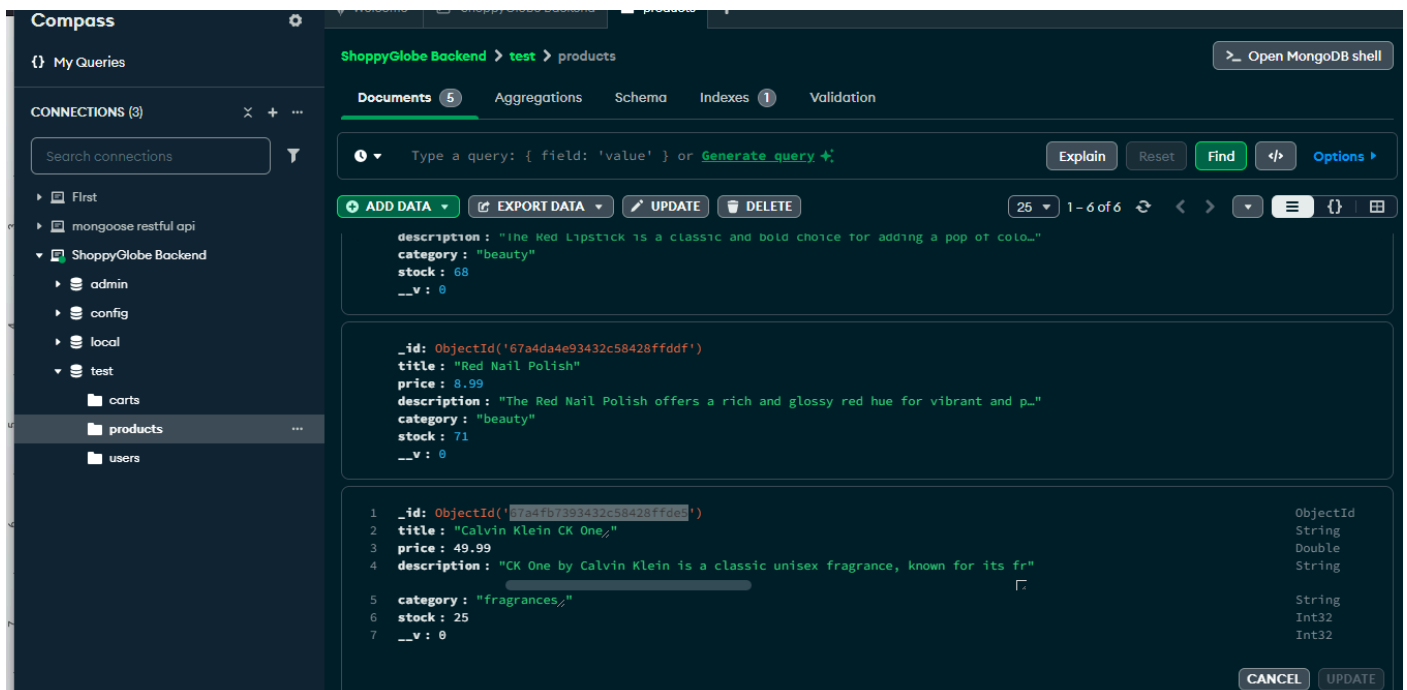
The response is a 200 OK status with a JSON body:

```
{
  "success": true,
  "message": "Product updated successfully",
  "result": {
    "_id": "67a4fb7393432c58428ffde5",
    "title": "Calvin Klein CK One",
    "price": 49.99,
    "description": "CK One by Calvin Klein is a classic unisex fragrance, known for its fresh and clean scent. It's a versatile fragrance suitable for everyday wear.",
    "category": "fragrances",
    "stock": 25,
    "__v": 0
  }
}
```

The terminal shows the following output:

```
connection successful
Product inserted in database
GET
URL :/, Status Code: 200
GET
URL :/67a4da4e93432c58428ffddb, Status Code: 200
POST
URL :/, Status Code: 201
PUT
```

Updated in MongoDB as well



MongoDB Compass interface showing the `products` collection. The document is updated with the following fields:

```
{
  "description": "The Red Lipstick is a classic and bold choice for adding a pop of color",
  "category": "beauty",
  "stock": 68,
  "__v": 0
}
```

The document is highlighted in red, indicating it is the selected document. The schema view shows the following fields and their types:

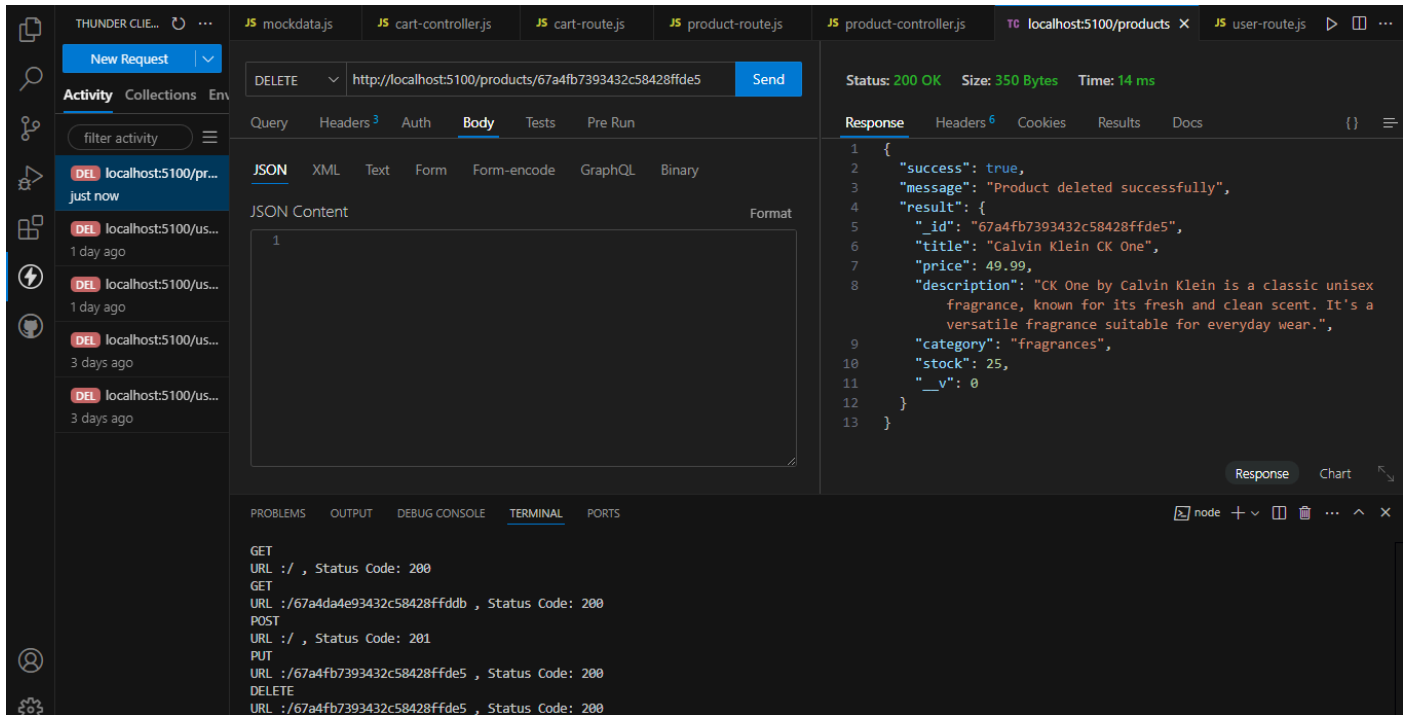
```
{
  "_id": ObjectId('67a4fb7393432c58428ffde5'),
  "title": "Red Nail Polish",
  "price": 8.99,
  "description": "The Red Nail Polish offers a rich and glossy red hue for vibrant and p...",
  "category": "beauty",
  "stock": 71,
  "__v": 0
}
```

The schema view shows the following types:

- `_id`: ObjectId
- `title`: String
- `price`: Double
- `description`: String
- `category`: String
- `stock`: Int32
- `__v`: Int32

5. DELETE/products - Delete Product in Database

Description: Delete Product from Database. This is useful when Deleting a product using path “<http://localhost:5100/products/:id>” and Method “**DELETE**”



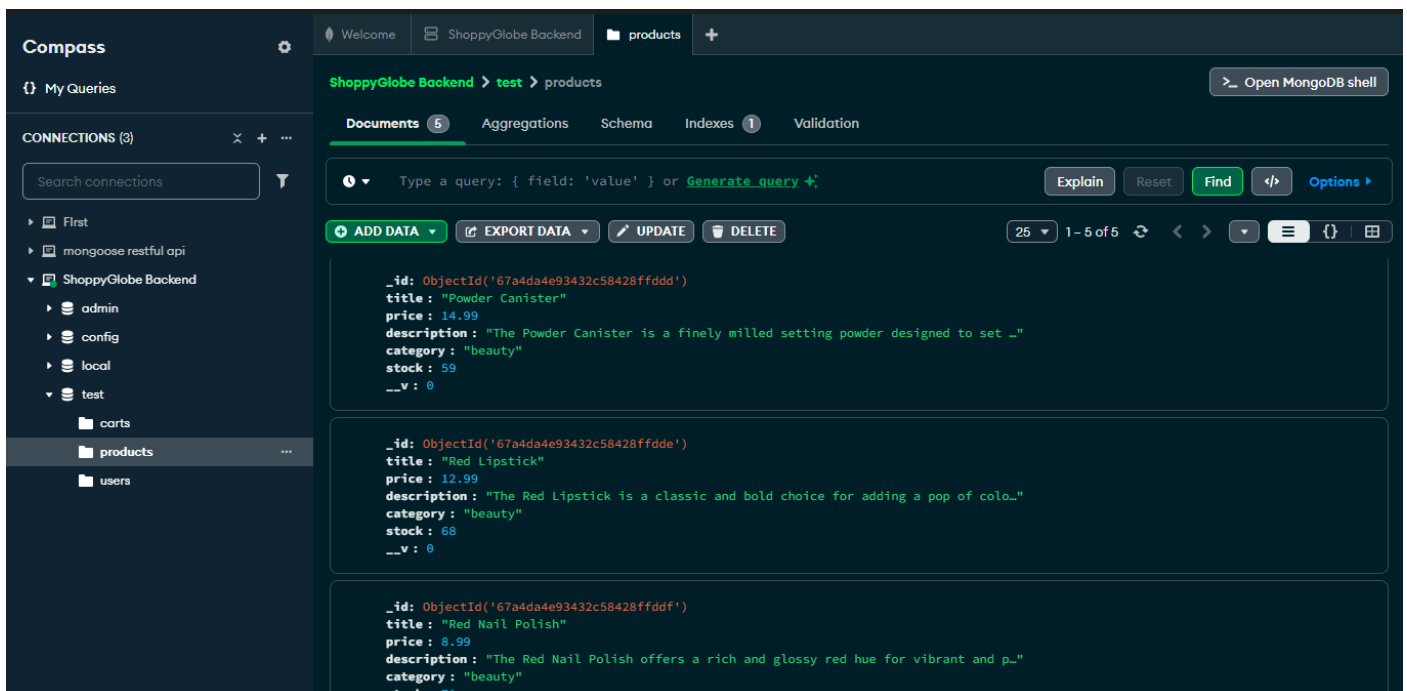
The screenshot shows the Thunder Client interface. A DELETE request is sent to `http://localhost:5100/products/67a4fb7393432c58428ffde5`. The response is a 200 OK status with a size of 350 Bytes and a time of 14 ms. The JSON response body is as follows:

```
1 {
2   "success": true,
3   "message": "Product deleted successfully",
4   "result": {
5     "_id": "67a4fb7393432c58428ffde5",
6     "title": "Calvin Klein CK One",
7     "price": 49.99,
8     "description": "CK One by Calvin Klein is a classic unisex
9       fragrance, known for its fresh and clean scent. It's a
10      versatile fragrance suitable for everyday wear.",
11     "category": "fragrances",
12     "stock": 25,
13     "__v": 0
14   }
15 }
```

The bottom panel shows the terminal output of the request:

```
GET
URL : / , Status Code: 200
GET
URL : /67a4da4e93432c58428ffddb , Status Code: 200
POST
URL : / , Status Code: 201
PUT
URL : /67a4fb7393432c58428ffde5 , Status Code: 200
DELETE
URL : /67a4fb7393432c58428ffde5 , Status Code: 200
```

Deleted from MongoDB as well



The screenshot shows the MongoDB Compass interface. The 'products' collection in the 'test' database is selected. The collection contains three documents:

```
_id: ObjectId('67a4da4e93432c58428ffddd')
title: "Powder Canister"
price: 14.99
description: "The Powder Canister is a finely milled setting powder designed to set ..."
category: "beauty"
stock: 59
__v: 0
```

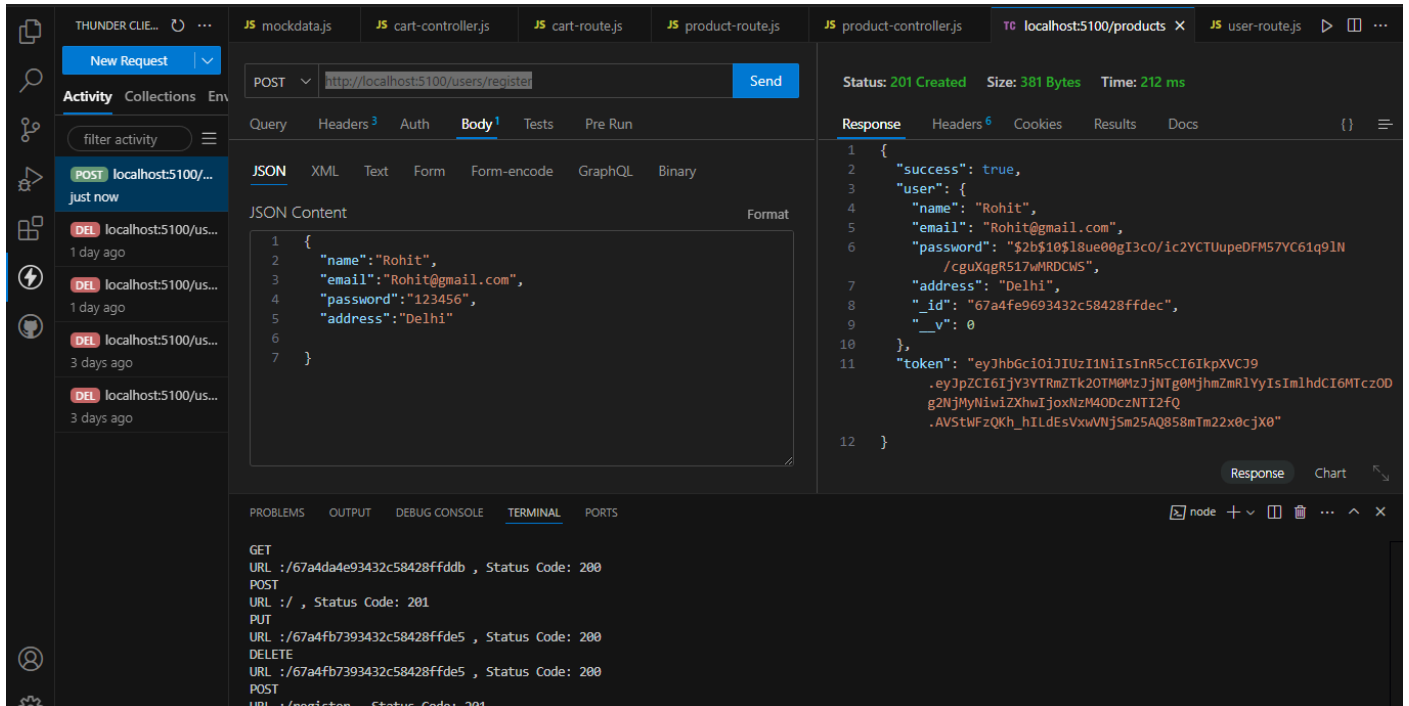
```
_id: ObjectId('67a4da4e93432c58428ffdde')
title: "Red Lipstick"
price: 12.99
description: "The Red Lipstick is a classic and bold choice for adding a pop of colo..."
category: "beauty"
stock: 68
__v: 0
```

```
_id: ObjectId('67a4da4e93432c58428ffddf')
title: "Red Nail Polish"
price: 8.99
description: "The Red Nail Polish offers a rich and glossy red hue for vibrant and p..."
category: "beauty"
stock: 71
```

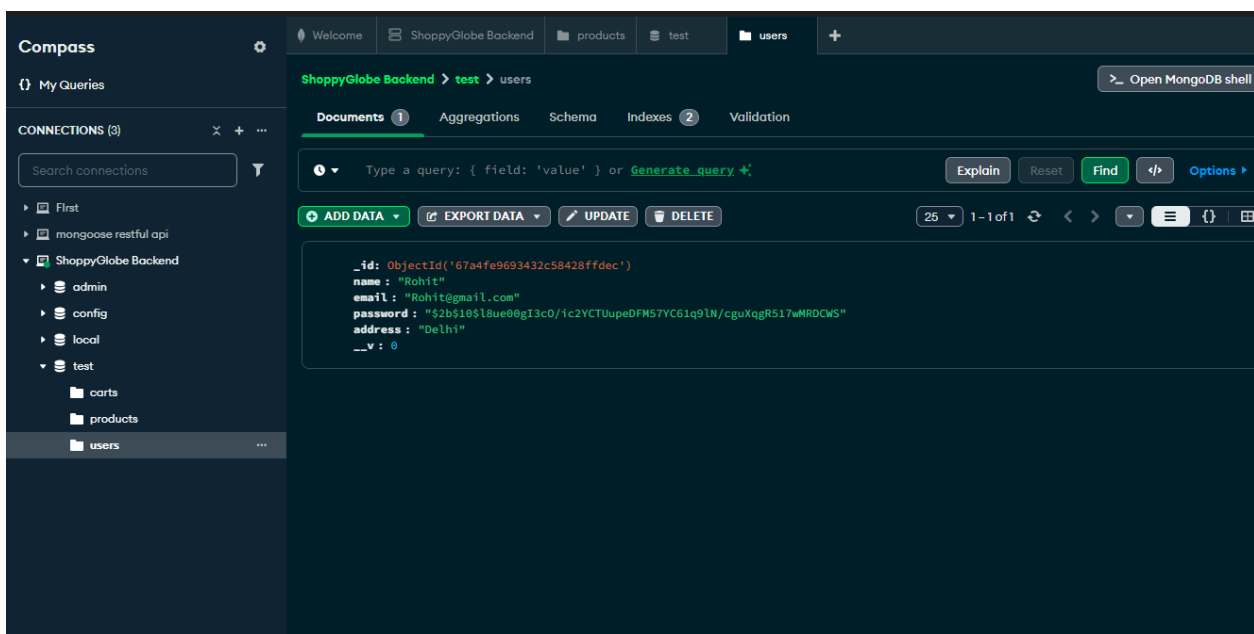
USER APIS

1. POST /register - Register a New User

Description: Allows new users to create an account by providing necessary credentials such as name, email, address and password using path “<http://localhost:5100/users/register>” and Method “POST”



Added in MongoDB as well with encrypted password



User cannot signup with same email id again or by providing incomplete details

THUNDER CLIE... mockdata.js JS cart-controller.js JS cart-route.js JS product-route.js JS product-controller.js localhost:5100/products JS user-route.js

New Request

Activity Collections Env

filter activity

POST localhost:5100/... just now

DEL localhost:5100/us... 1 day ago

DEL localhost:5100/us... 1 day ago

DEL localhost:5100/us... 3 days ago

DEL localhost:5100/us... 3 days ago

POST http://localhost:5100/users/register Send

Status: 400 Bad Request Size: 57 Bytes Time: 15 ms

Response Headers Cookies Results Docs

```
1 {
2   "success": false,
3   "message": "Email is already registered"
4 }
```

JSON XML Text Form Form-encode GraphQL Binary

JSON Content Format

```
1 {
2   "name": "rohit",
3   "email": "Rohit@gmail.com",
4   "password": "123456",
5   "address": "mumbai"
6 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node

PUT request to update cart item.
URL :/67a5015593432c58428ffdf1 , Status Code: 200
DELETE
URL :/67a5015593432c58428ffdf1 , Status Code: 200
POST
URL :/login , Status Code: 403
POST
URL :/login , Status Code: 403
POST

THUNDER CLIE... mockdata.js JS cart-controller.js JS cart-route.js JS product-route.js JS product-controller.js localhost:5100/products JS user-route.js

New Request

Activity Collections Env

filter activity

POST localhost:5100/... just now

DEL localhost:5100/us... 1 day ago

DEL localhost:5100/us... 1 day ago

DEL localhost:5100/us... 3 days ago

DEL localhost:5100/us... 3 days ago

POST http://localhost:5100/users/register Send

Status: 400 Bad Request Size: 53 Bytes Time: 11 ms

Response Headers Cookies Results Docs

```
1 {
2   "success": false,
3   "message": "All fields are required"
4 }
```

JSON XML Text Form Form-encode GraphQL Binary

JSON Content Format

```
1 {
2   "email": "Varun@gmail.com",
3   "password": "123456",
4   "address": "mumbai"
5 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node

DELETE
URL :/67a5015593432c58428ffdf1 , Status Code: 200
POST
URL :/login , Status Code: 403
POST
URL :/login , Status Code: 403
POST
URL :/register , Status Code: 400
POST

2. POST /login - Login for Existing User

Description: Allows new users to login to their account by providing necessary credentials such as email and password using path “<http://localhost:5100/users/login>” and Method “**POST**”

The screenshot shows the Thunder Client interface. A POST request to `http://localhost:5100/users/login` has been sent successfully. The status is 200 OK, with a size of 381 Bytes and a time of 106 ms. The response is a JSON object containing user details and a token.

```
POST http://localhost:5100/users/login
Content-Type: application/json

{
  "email": "Rohit@gmail.com",
  "password": "123456"
}
```

```
{
  "success": true,
  "user": {
    "_id": "67a4fe9693432c58428ffdec",
    "name": "Rohit",
    "email": "Rohit@gmail.com",
    "password": "$2b$10$18ue00gI3c0/ic2YCTUupeDFM57YC61q9lN/cguXqgR517wMRDCWS",
    "address": "Delhi",
    "__v": 0
  },
  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjY3YTRmZTk2OTM0MzIjNTg0MjhmZmRlYyIsIm1hdCI6MTczODg2NjYzOCw1ZXhwIjoxNzMDM4OTUzMDM4fQ.BaDvauM-GlJDqTyUkPn3Dau50m0FvLLhNnNwCpa8F7M"
}
```

The terminal at the bottom shows the following output:

```
POST
URL :/, Status Code: 201
PUT
URL :/67a4fb7393432c58428ffdec, Status Code: 200
DELETE
URL :/67a4fb7393432c58428ffdec, Status Code: 200
POST
URL :/register, Status Code: 201
POST
URL :/login, Status Code: 200
```

Login by fetching and matching details from Database

The screenshot shows the MongoDB Compass interface. The 'test' database is selected, and the 'users' collection is open. The 'Documents' tab is active, showing a single document with the following details:

```
{
  "_id": ObjectId('67a4fe9693432c58428ffdec'),
  "name": "Rohit",
  "email": "Rohit@gmail.com",
  "password": "$2b$10$18ue00gI3c0/ic2YCTUupeDFM57YC61q9lN/cguXqgR517wMRDCWS",
  "address": "Delhi",
  "__v": 0
}
```

The left sidebar shows the database structure, including the 'test' database and its collections: 'carta', 'products', and 'users'.

Gives Error if wrong credentials is provided for login or no user registered with that mail id

This screenshot shows a REST client interface with a POST request to `http://localhost:5100/users/login`. The request body is a JSON object: `{ "email": "Rohit@gmail.com", "password": "1hj5n" }`. The response status is **403 Forbidden** with a size of 51 Bytes and a time of 113 ms. The response body is: `{ "success": false, "message": "Password is incorrect" }`. The terminal at the bottom shows the sequence of requests and responses for the application.

```
POST http://localhost:5100/users/login
{
  "email": "Rohit@gmail.com",
  "password": "1hj5n"
}
```

Status: 403 Forbidden Size: 51 Bytes Time: 113 ms

```
{
  "success": false,
  "message": "Password is incorrect"
}
```

Terminal output:

```
URL : / , Status Code: 200
GET
URL : / , Status Code: 403
PUT
PUT request to update cart item.
URL : /67a5015593432c58428ffdf1 , Status Code: 200
DELETE
URL : /67a5015593432c58428ffdf1 , Status Code: 200
POST
```

This screenshot shows a REST client interface with a POST request to `http://localhost:5100/users/login`. The request body is a JSON object: `{ "email": "Varun@gmail.com", "password": "123456" }`. The response status is **403 Forbidden** with a size of 62 Bytes and a time of 10 ms. The response body is: `{ "success": false, "message": "No user found with this Email id" }`. The terminal at the bottom shows the sequence of requests and responses for the application.

```
POST http://localhost:5100/users/login
{
  "email": "Varun@gmail.com",
  "password": "123456"
}
```

Status: 403 Forbidden Size: 62 Bytes Time: 10 ms

```
{
  "success": false,
  "message": "No user found with this Email id"
}
```

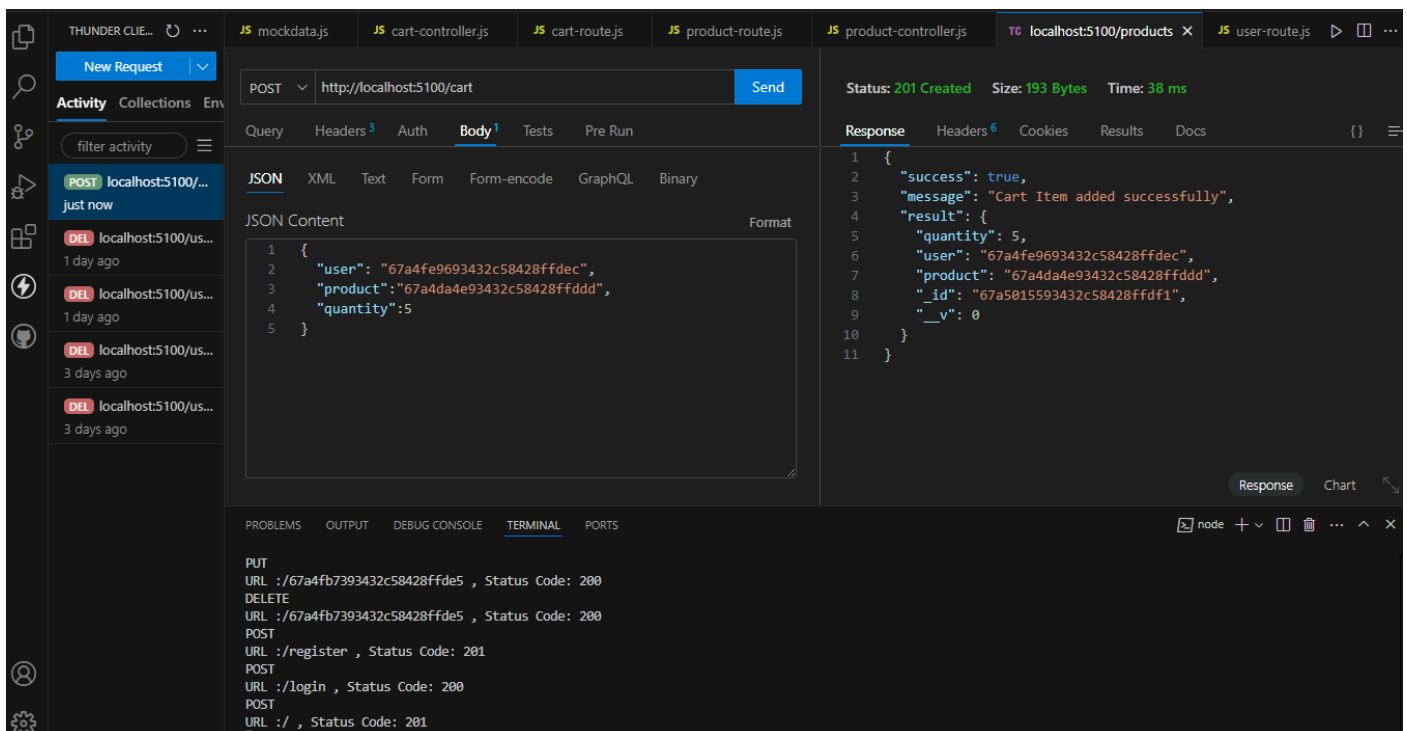
Terminal output:

```
URL : / , Status Code: 403
PUT
PUT request to update cart item.
URL : /67a5015593432c58428ffdf1 , Status Code: 200
DELETE
URL : /67a5015593432c58428ffdf1 , Status Code: 200
POST
URL : /login , Status Code: 403
POST
```

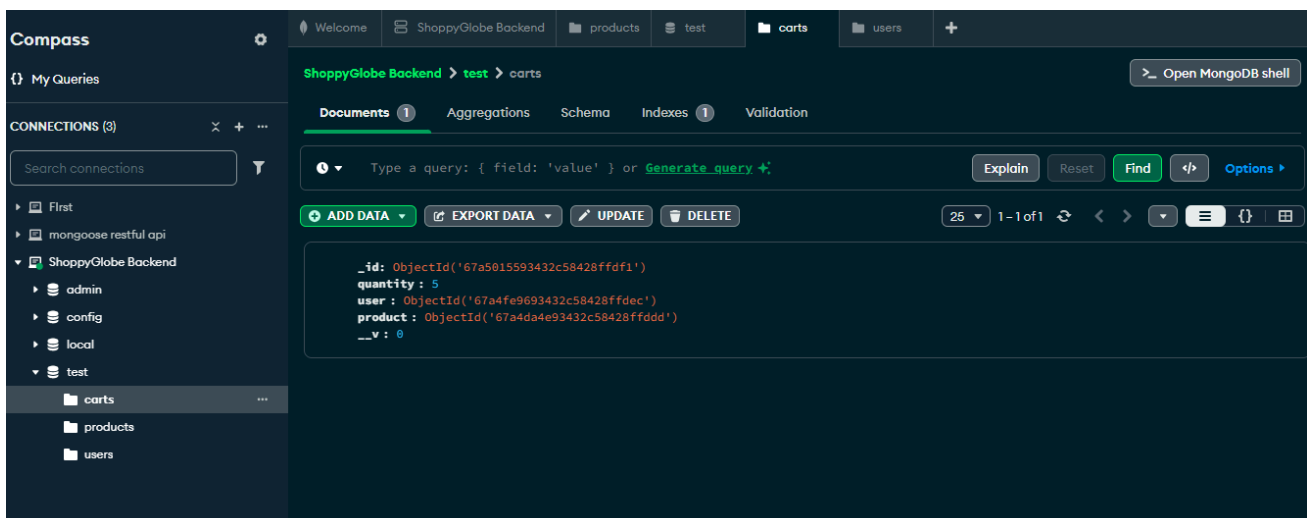
CART APIS

1. POST /cart - Add Item to Cart

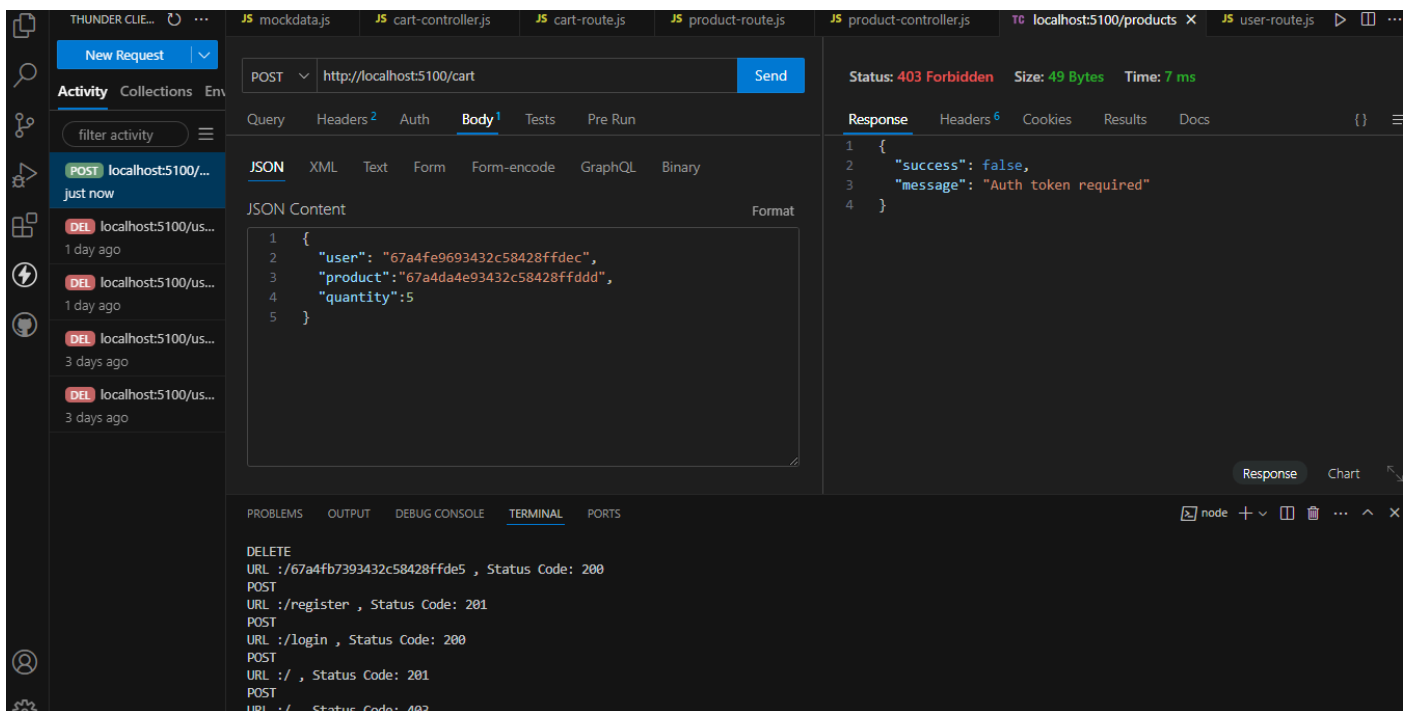
Description: Allows a logged-in user to add items to their cart. If the item already exists, then quantity is updated using path “<http://localhost:5100/cart>” and **METHOD “POST”** by providing user id , product id and quantity in body.



Updated in MongoDB as well

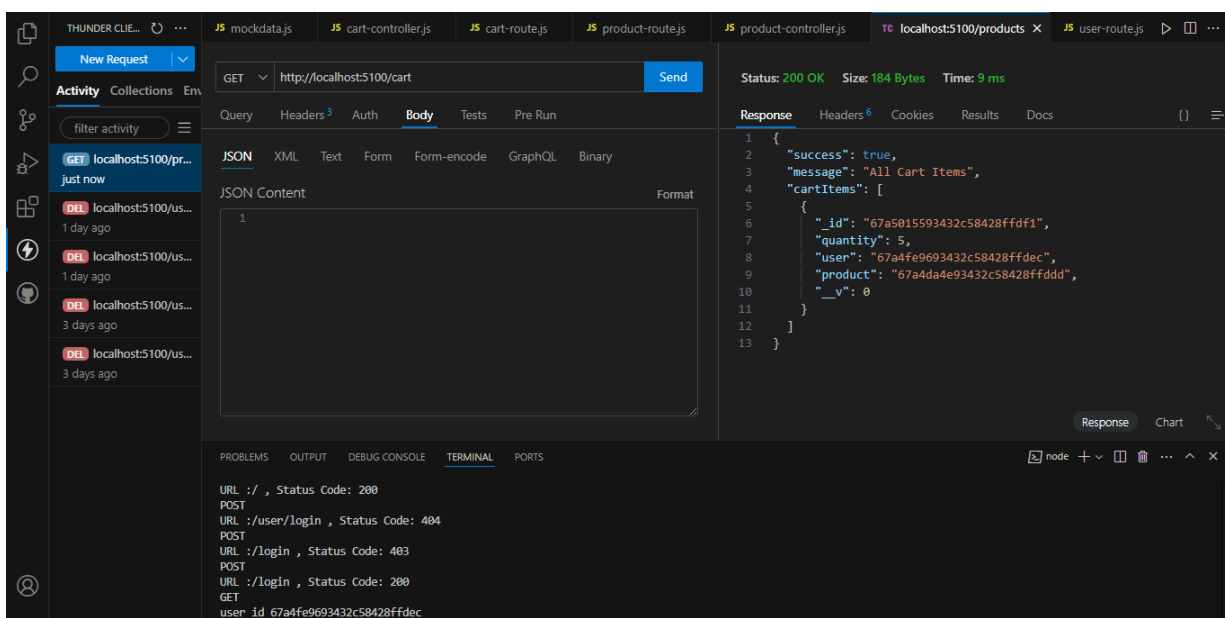


If user tries to add without login (without providing jwt token in authorization in header) it shows following error :

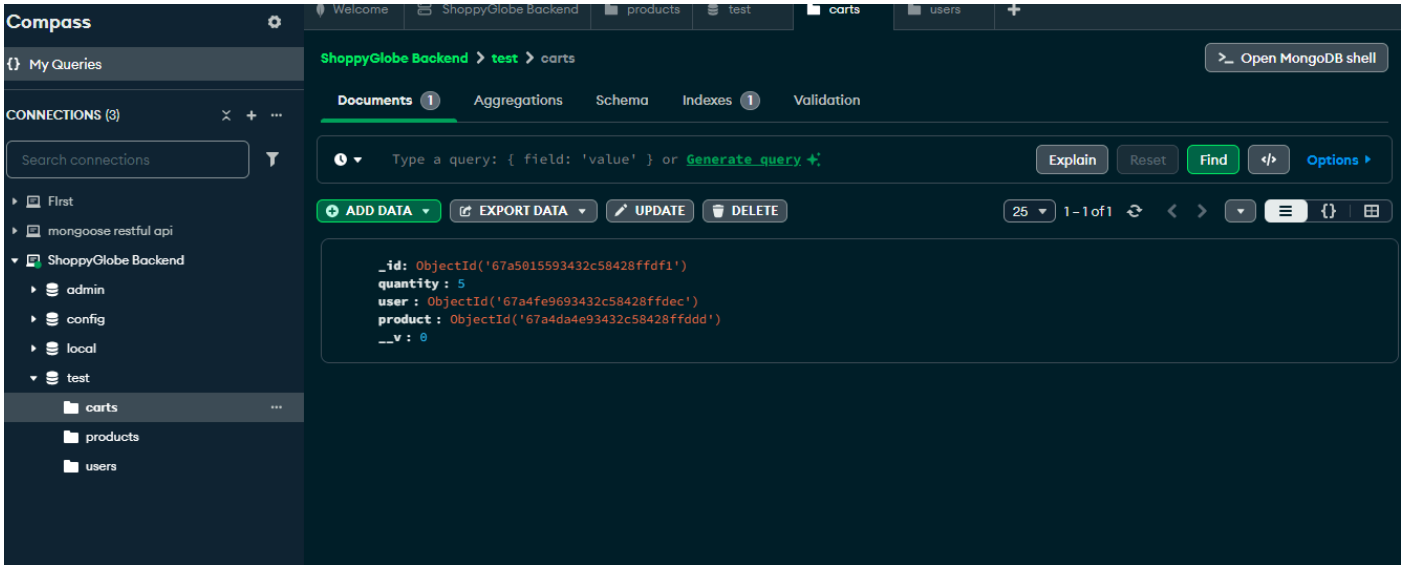


2. GET /cart - Get All Cart Items Details

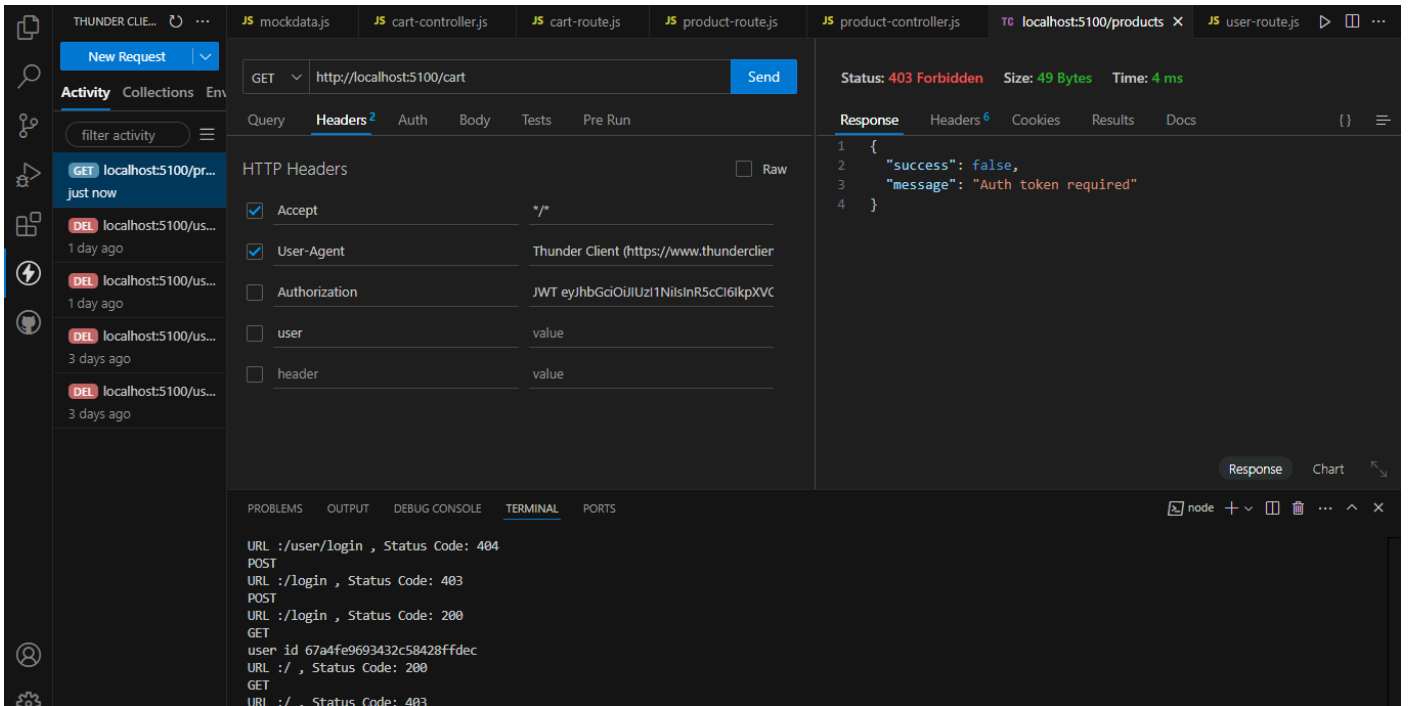
Description: Allows a logged-in user to get details of added items in their cart using path “<http://localhost:5100/cart>” and METHOD “GET”



Fetches from here in MongoDB

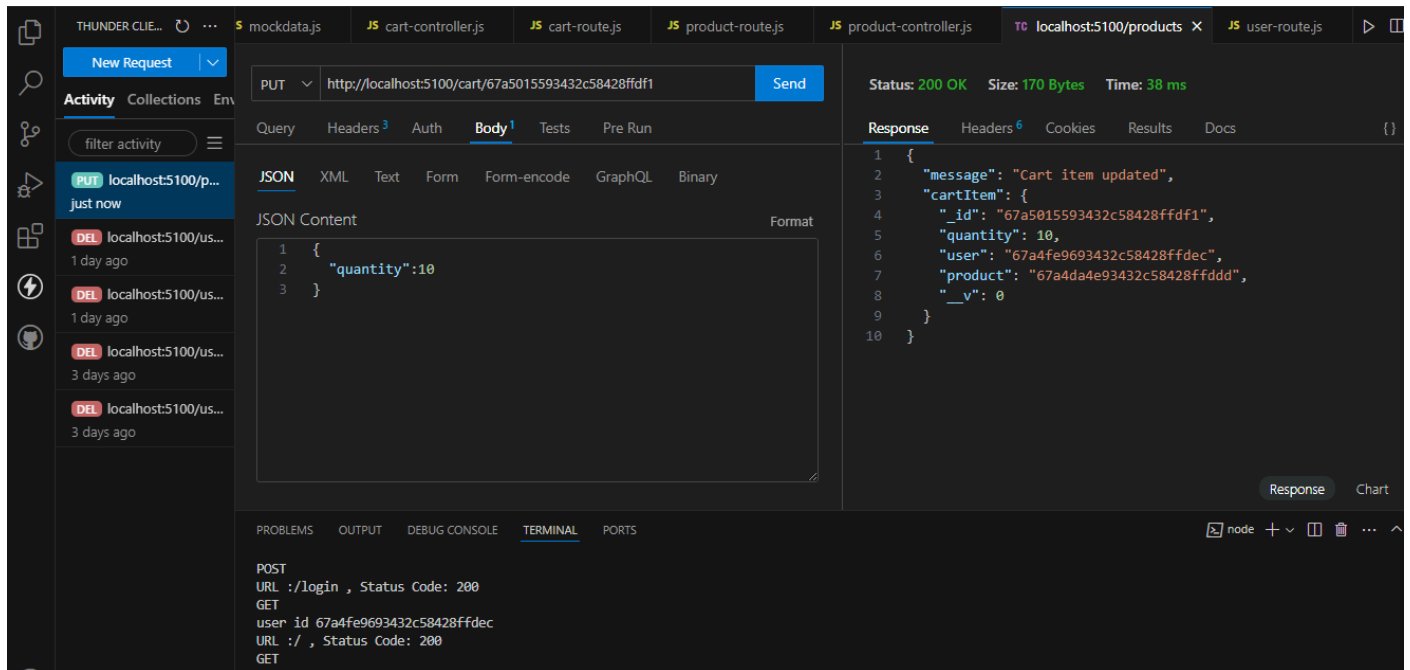


If user is not logged in (no jwt token provided in auth in header) then it shows this error :

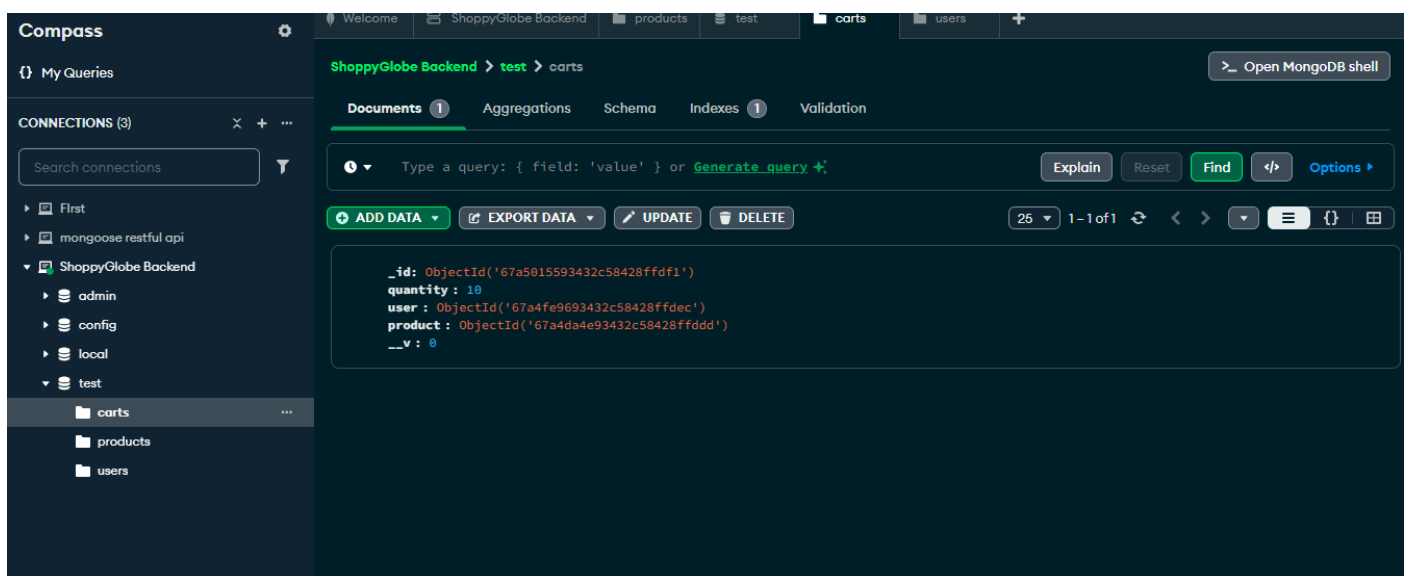


3. PUT /cart - Update Item Quantity in Cart

Description: Allows a logged-in user to update the quantity of added items in their cart using path “<http://localhost:5100/cart/:id>” and **METHOD “PUT”** and Providing updated quantity in body.

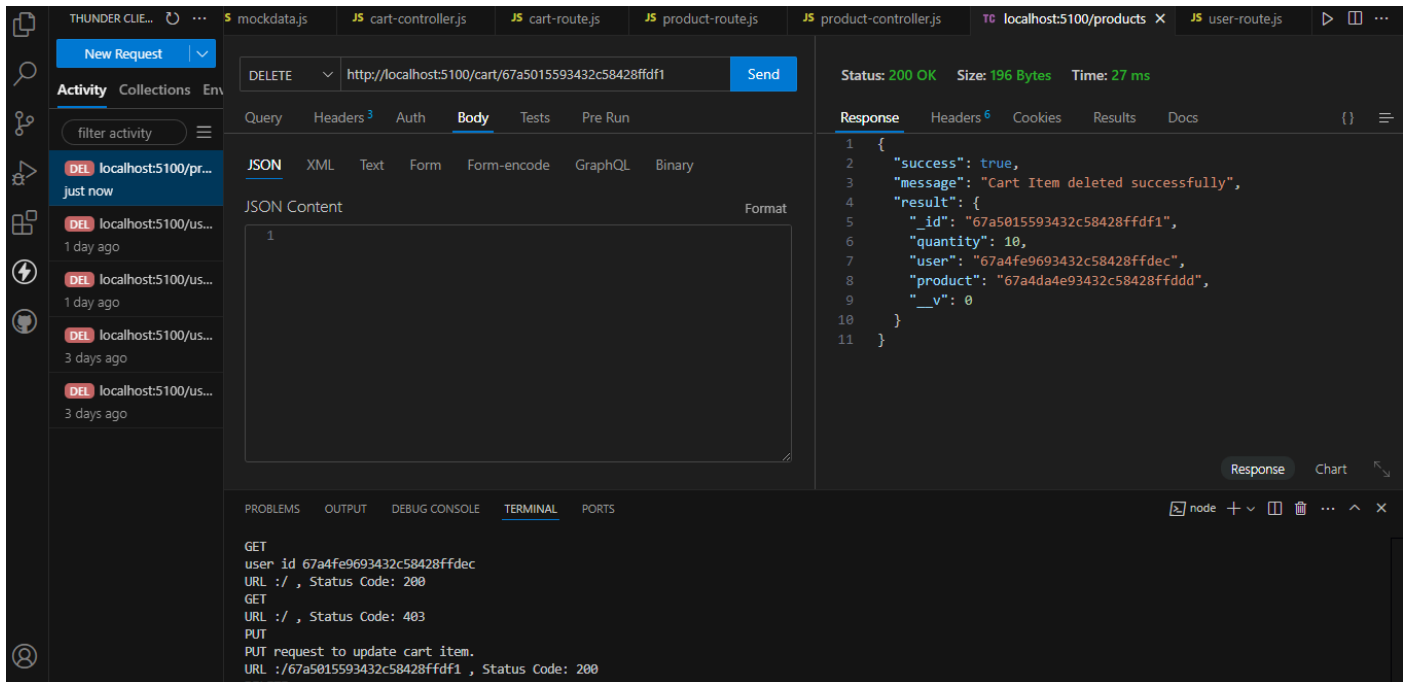


Updated in MongoDB as well



4. DELETE /cart - Delete an item from Cart

Description: Allows a logged-in user to delete added items in their cart using path “<http://localhost:5100/cart/:id>” and **METHOD** “**DELETE**”



Deleted from MongoDB as well

