

TOPIC : API TESTING OF CRUD OPERATIONS

USING THUNDERCLIENT

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Products API TESTING

Add a Product

- . Method: POST
- . URL: <http://localhost:5000/api/products>
- . Body (JSON): {"name": "Laptop",
- . "price": 50000,
- . "description": "Gaming Laptop",
- . "stock": 10
- }

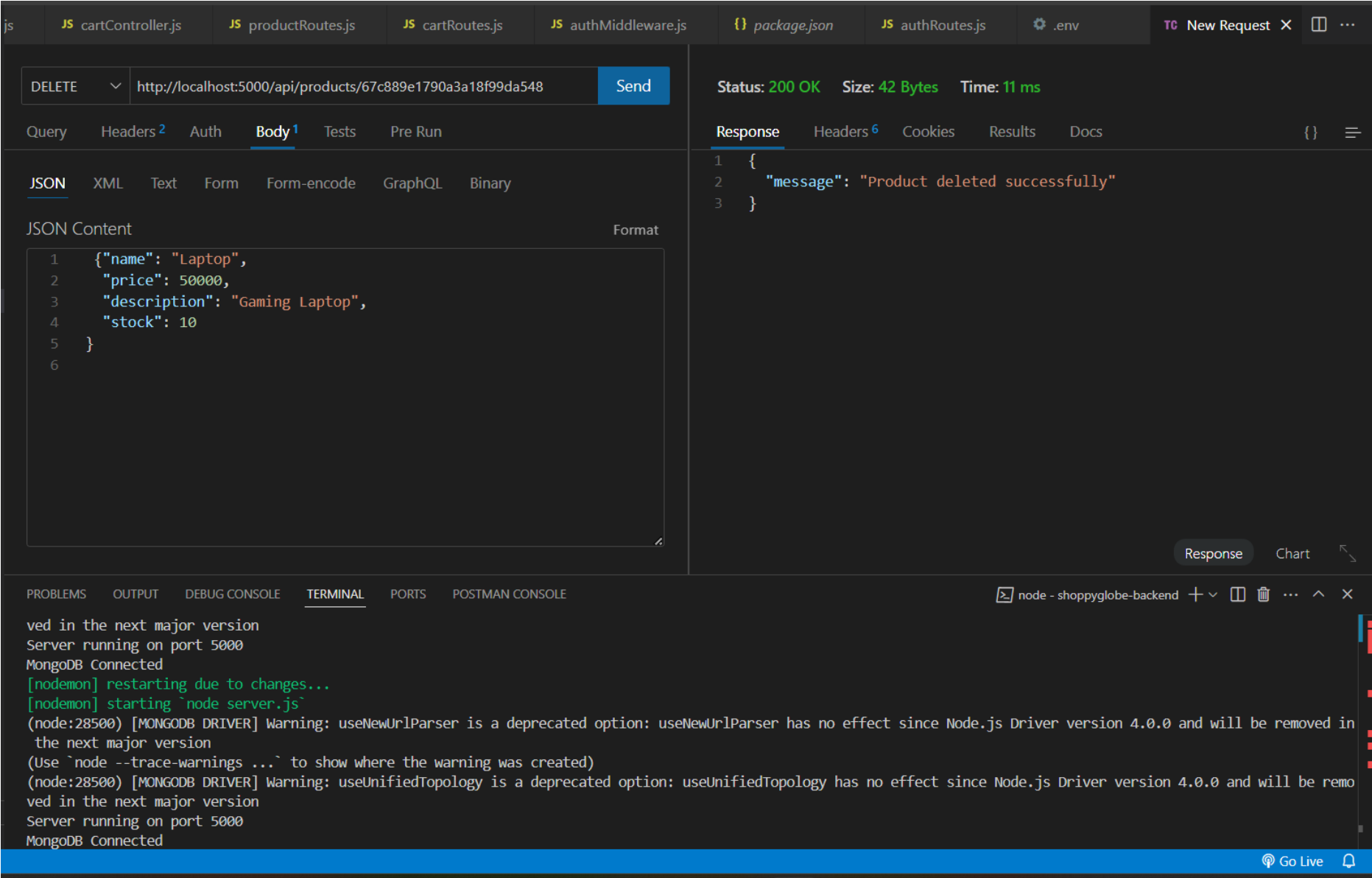
To add a new product, send a **POST** request to <http://localhost:5000/api/products>.

Ensure the request body is in **JSON format** with product details.

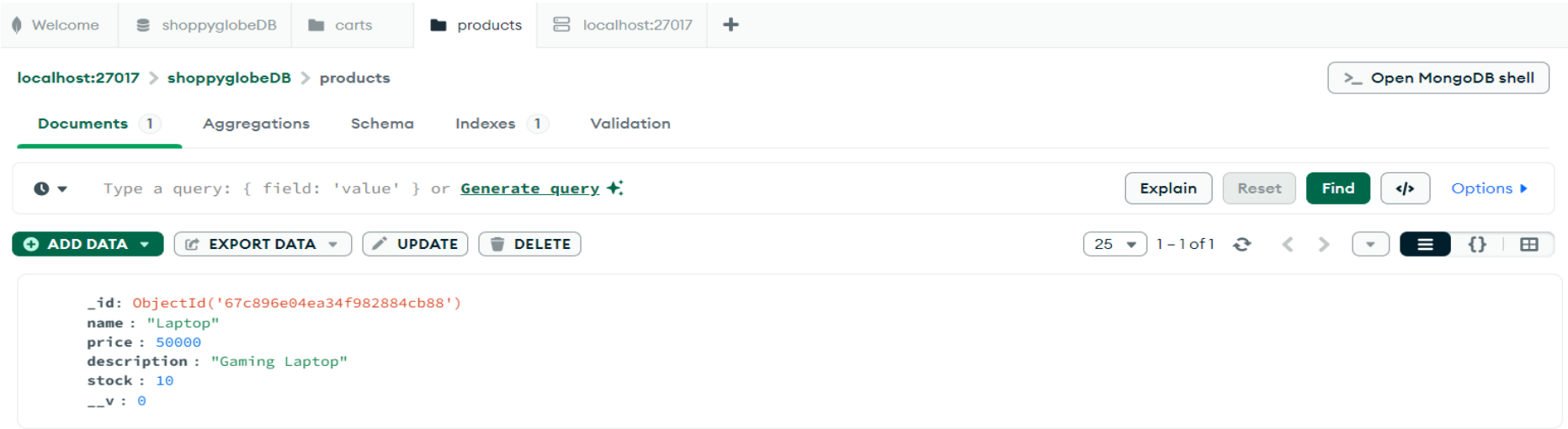
The JSON body should include "name", "price", "description", and "stock".

The server will validate the data and store it in the **MongoDB database**.

SCREENSHOT



SCREENSHOT OF MONGODB



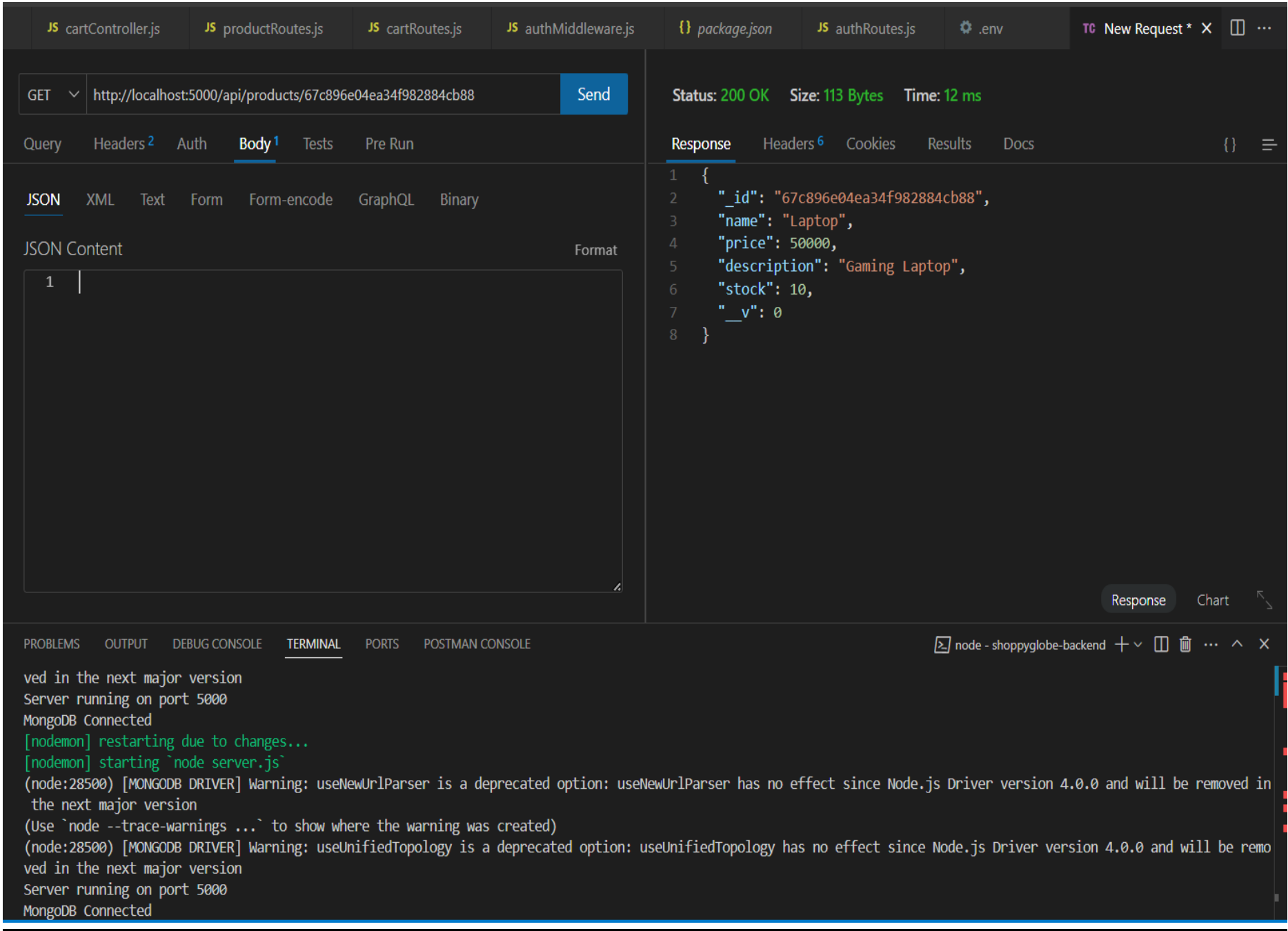
Get Product by ID

Method: GET

URL:

<http://localhost:5000/api/products/67c896e04ea34f982884cb88>

SCREENSHOT



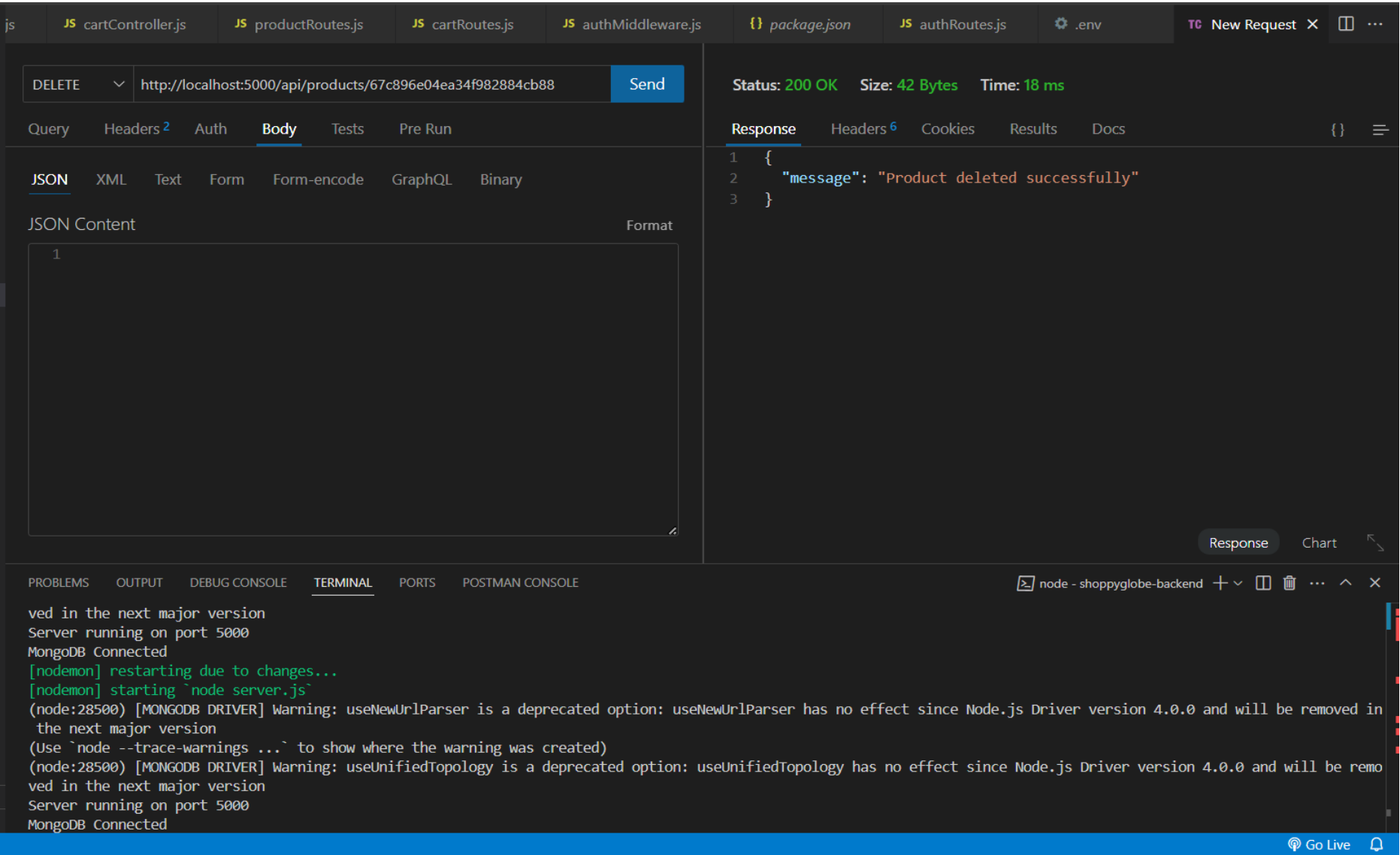
Delete a Product

Method: DELETE

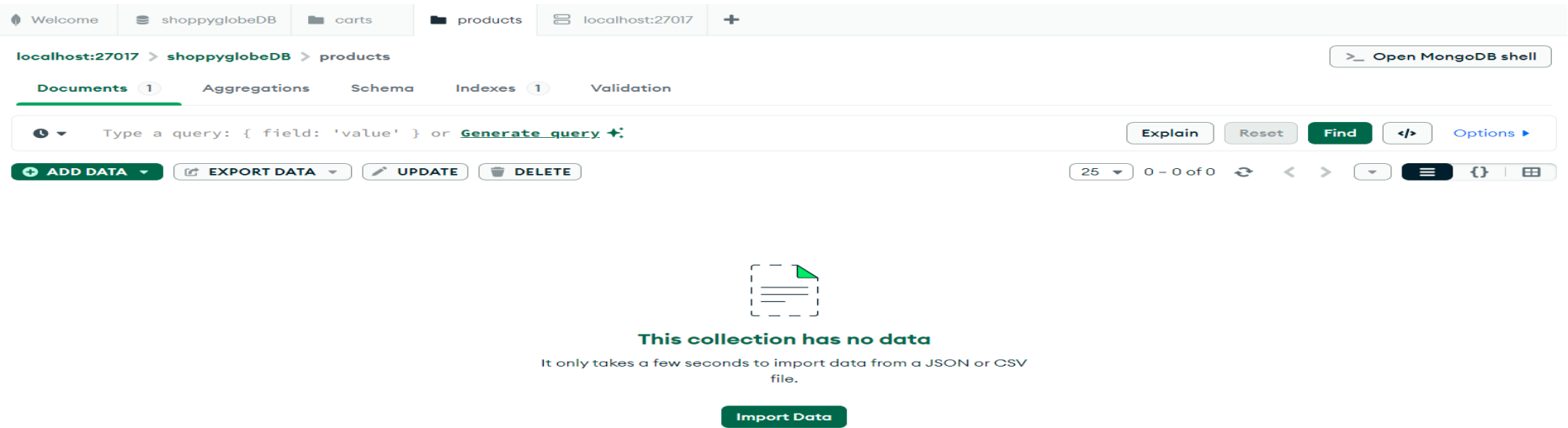
URL:

<http://localhost:5000/api/products/67c896e04ea34f982884cb88>

SCREENSHOT

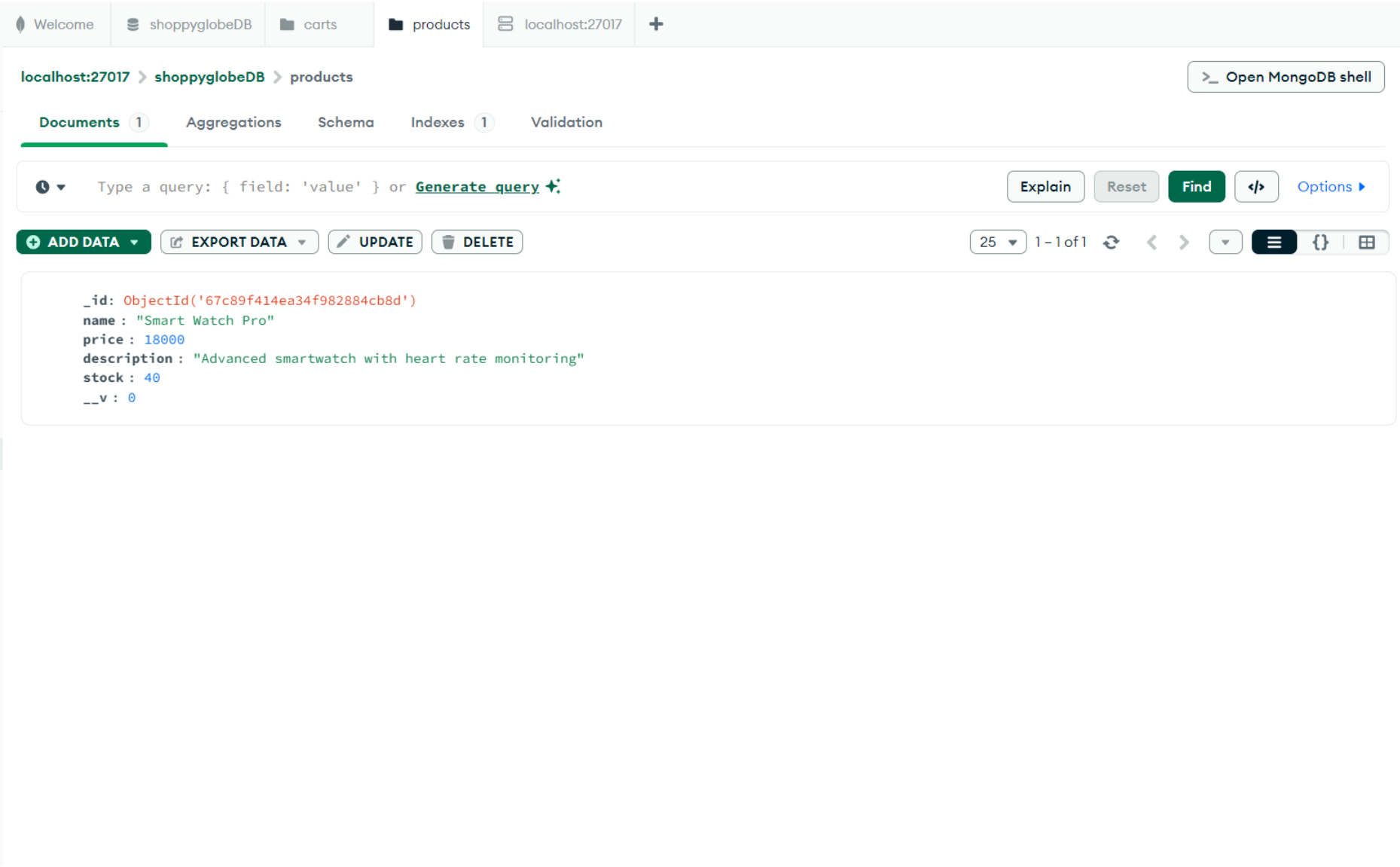


MONGODB SCREENSHOT



Update a Product

Since my database is empty so before doing the update API execution our database must have atleast one product so after pushing one product to the database then the database contain following data which is shown in the below screenshot.



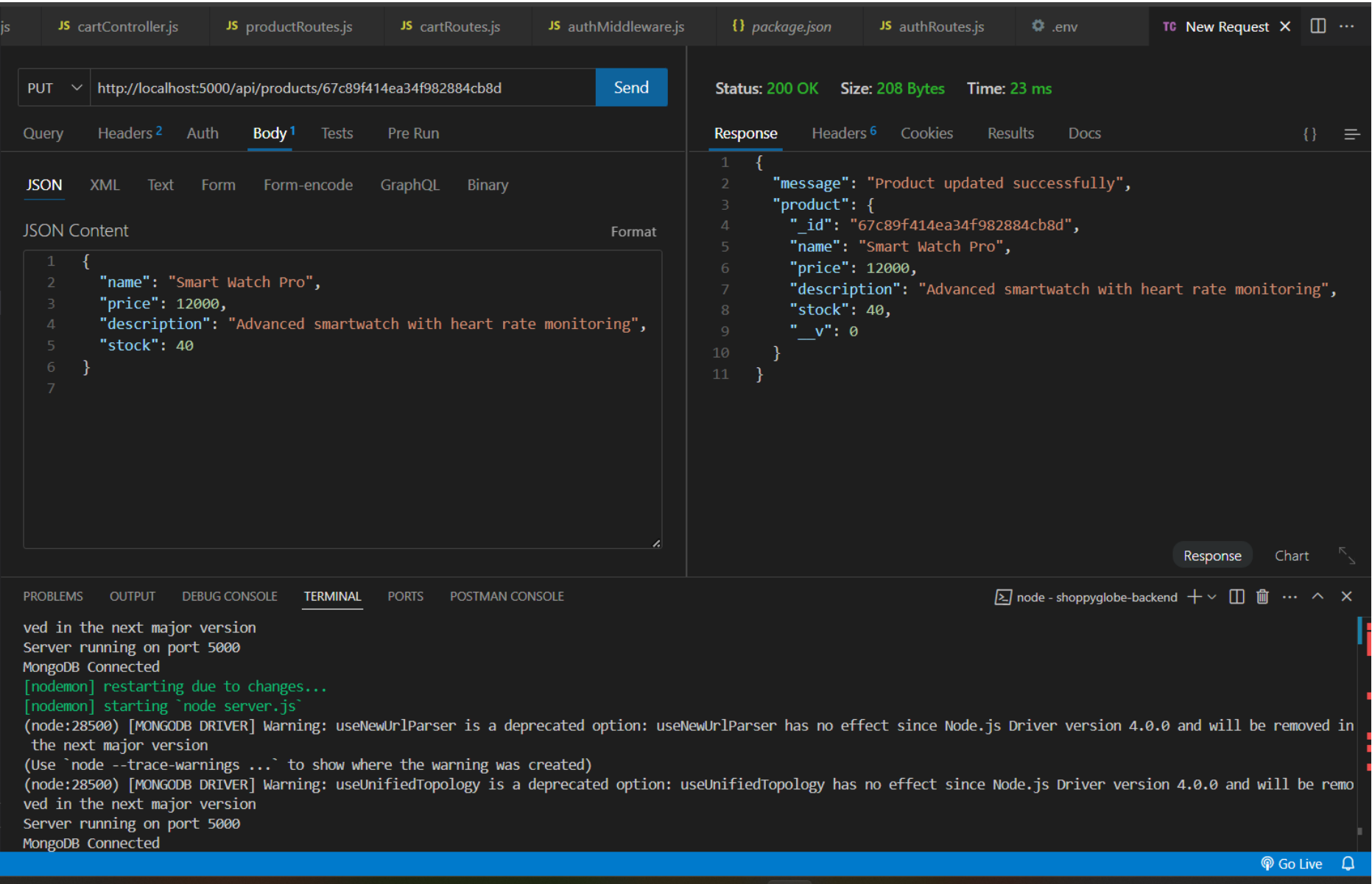
AFTER UPDATING THE DATABASE

Method: PUT

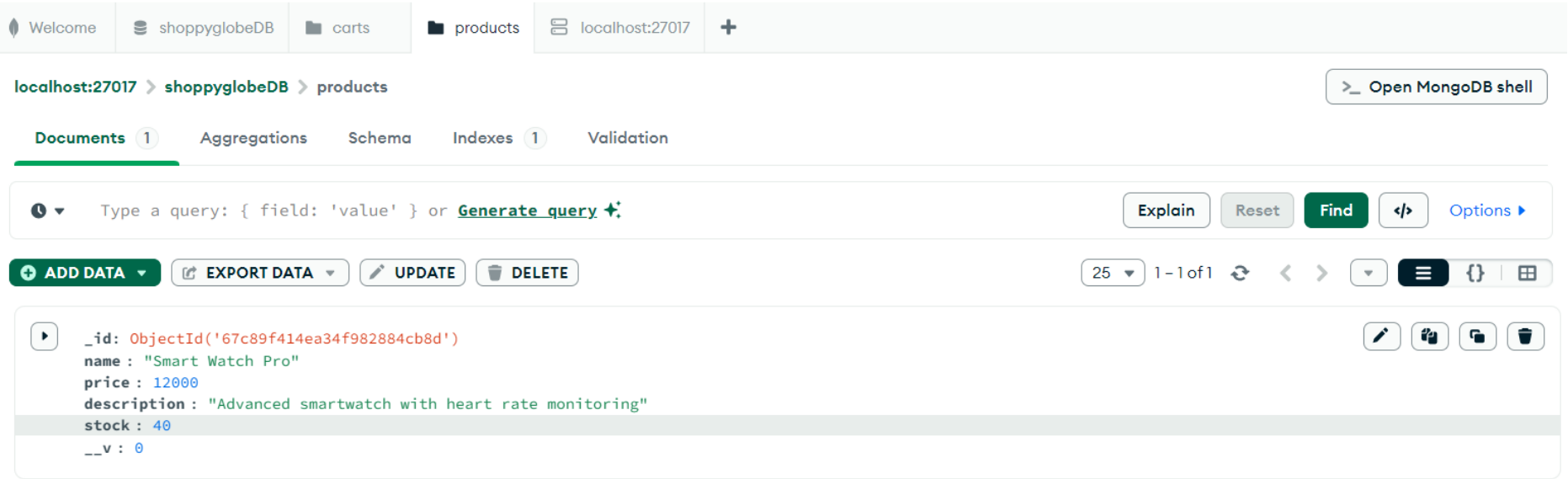
URL:

<http://localhost:5000/api/products/67c89f414ea34f982884cb8d>

SCREENSHOT



We update the price to 12,000 RS. SCREENSHOT OF THE MONGODB



CARTITEM API EXECUTION

NOTE : BEFORE PERFORMING ANY API EXECUTION WE NEED TO REGISTER AND LOGIN .

NOTE : MUST USE PRODUCTID IN PRODUCT COLLECTION ONLY.

Add Product to Cart

Method: POST

URL: <http://localhost:5000/api/cart>

Body (JSON): {

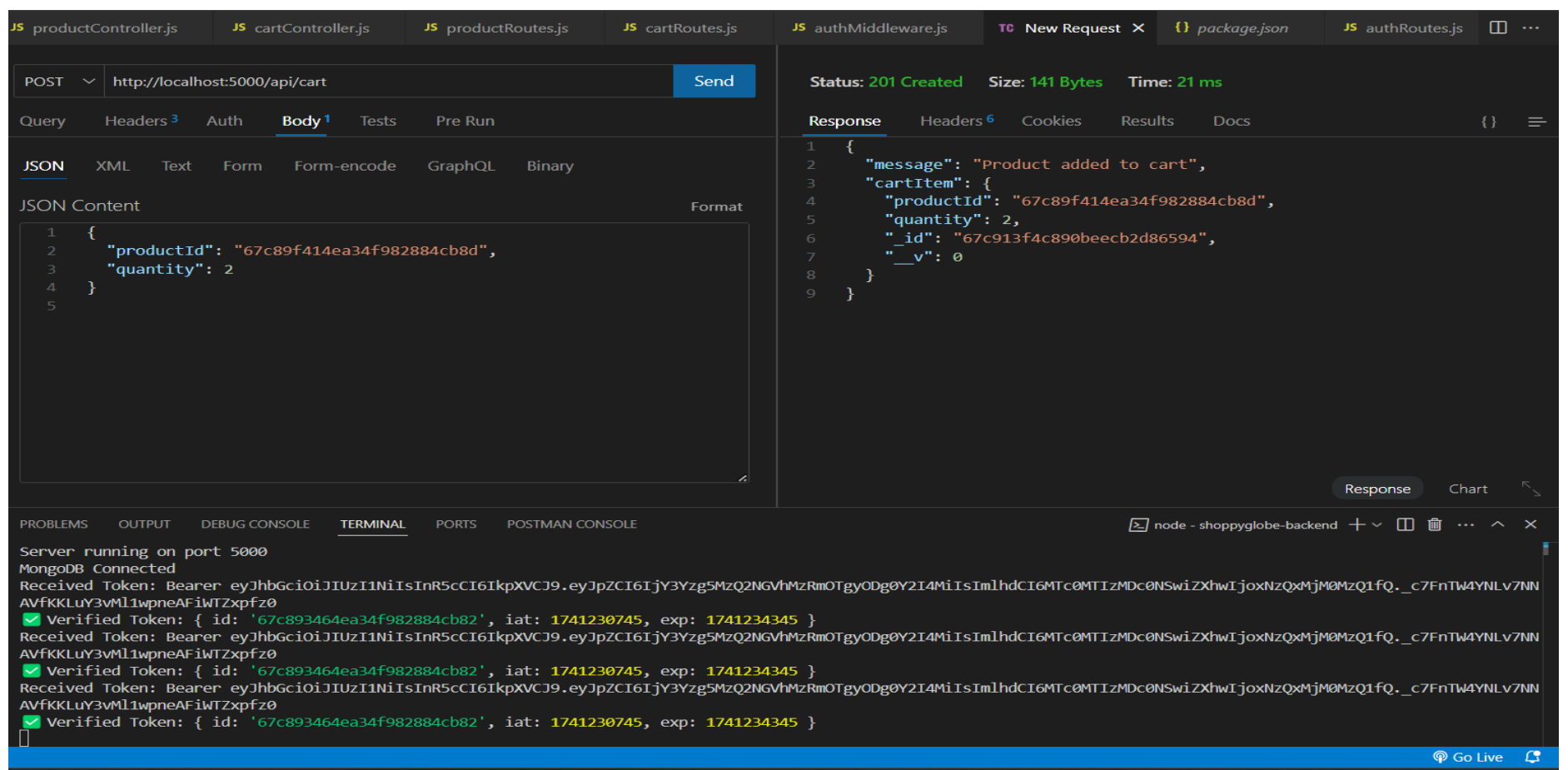
"productId": "67c89f414ea34f982884cb8d",

"quantity": 2

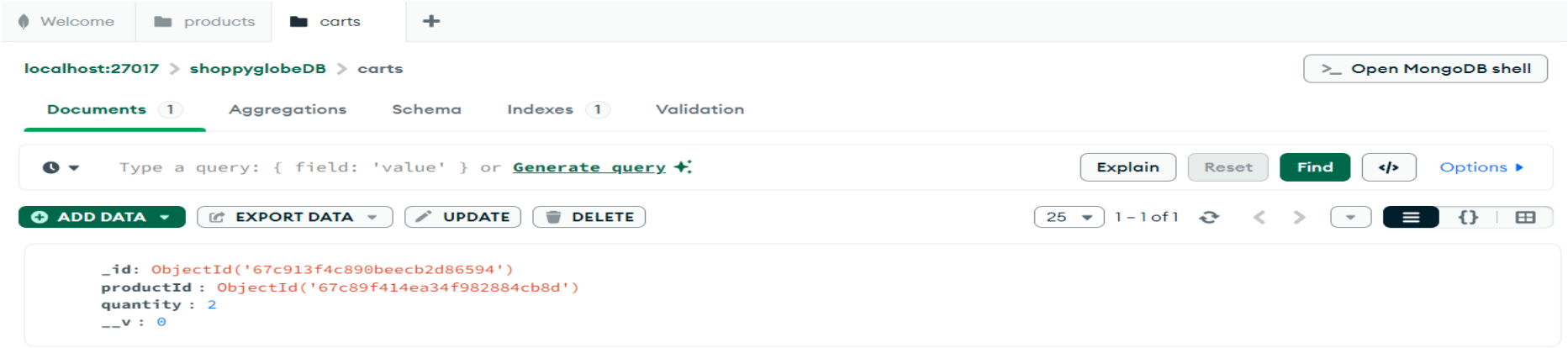
}

Headers: Authorization: Bearer YOUR_JWT_TOKEN

SCREENSHOT



MONGODB SCREENSHOT



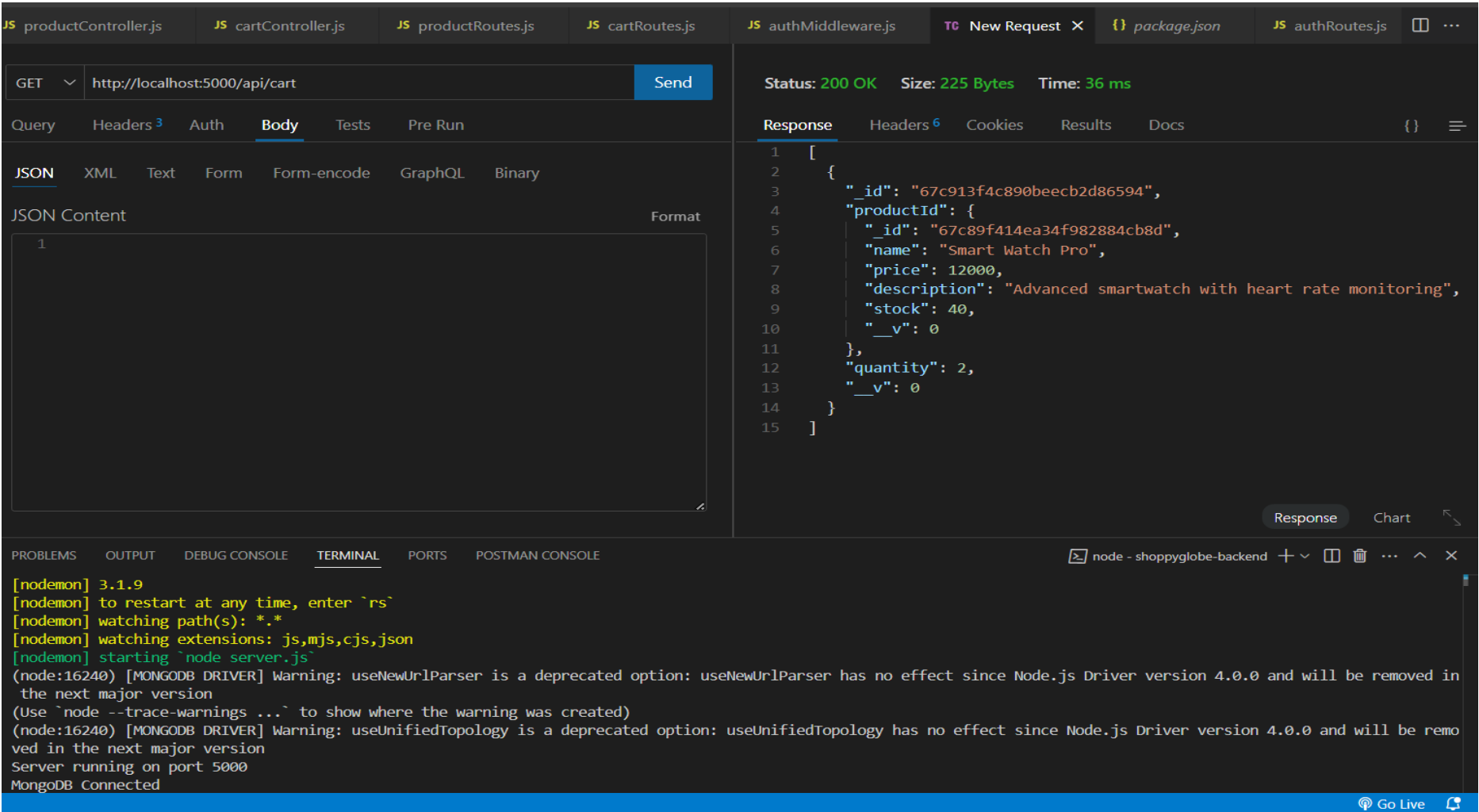
Get All Cart Items

Method: GET

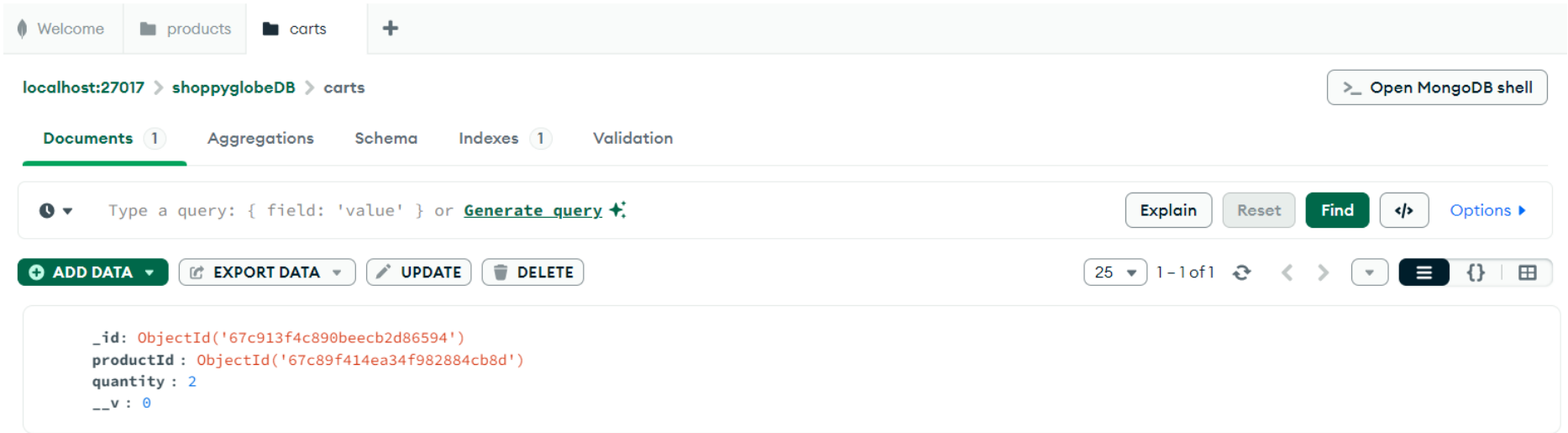
URL : <http://localhost:5000/api/cart>

Headers: Authorization: Bearer YOUR_JWT_TOKEN

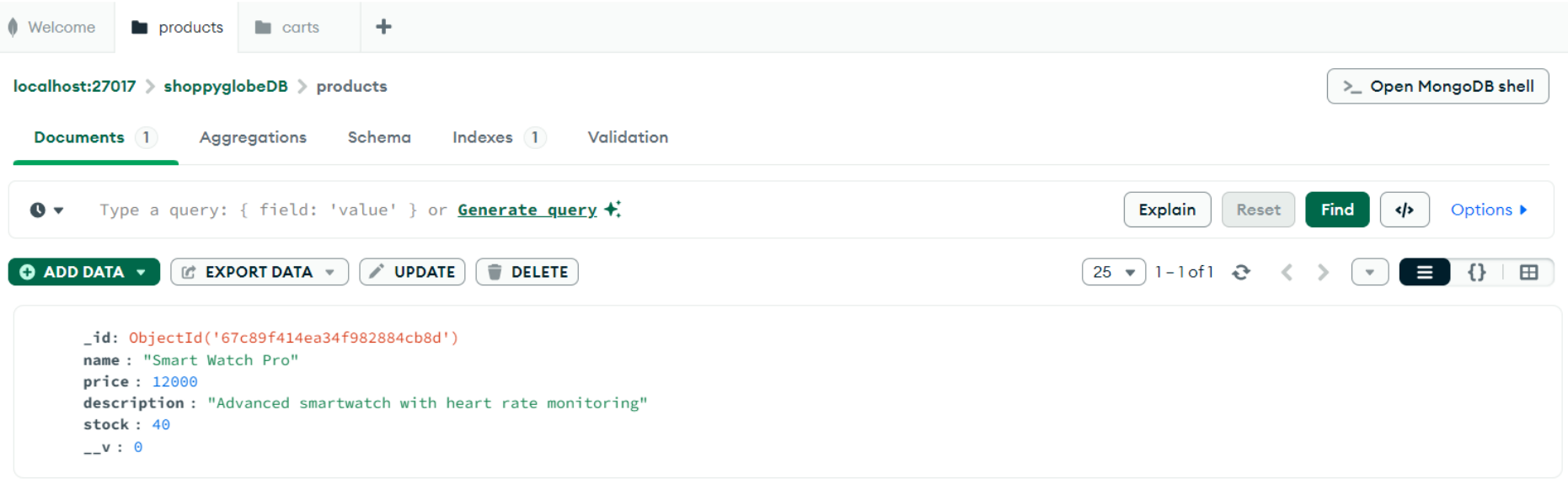
SCREENSHOT



MONGODB CART SCREENSHOT



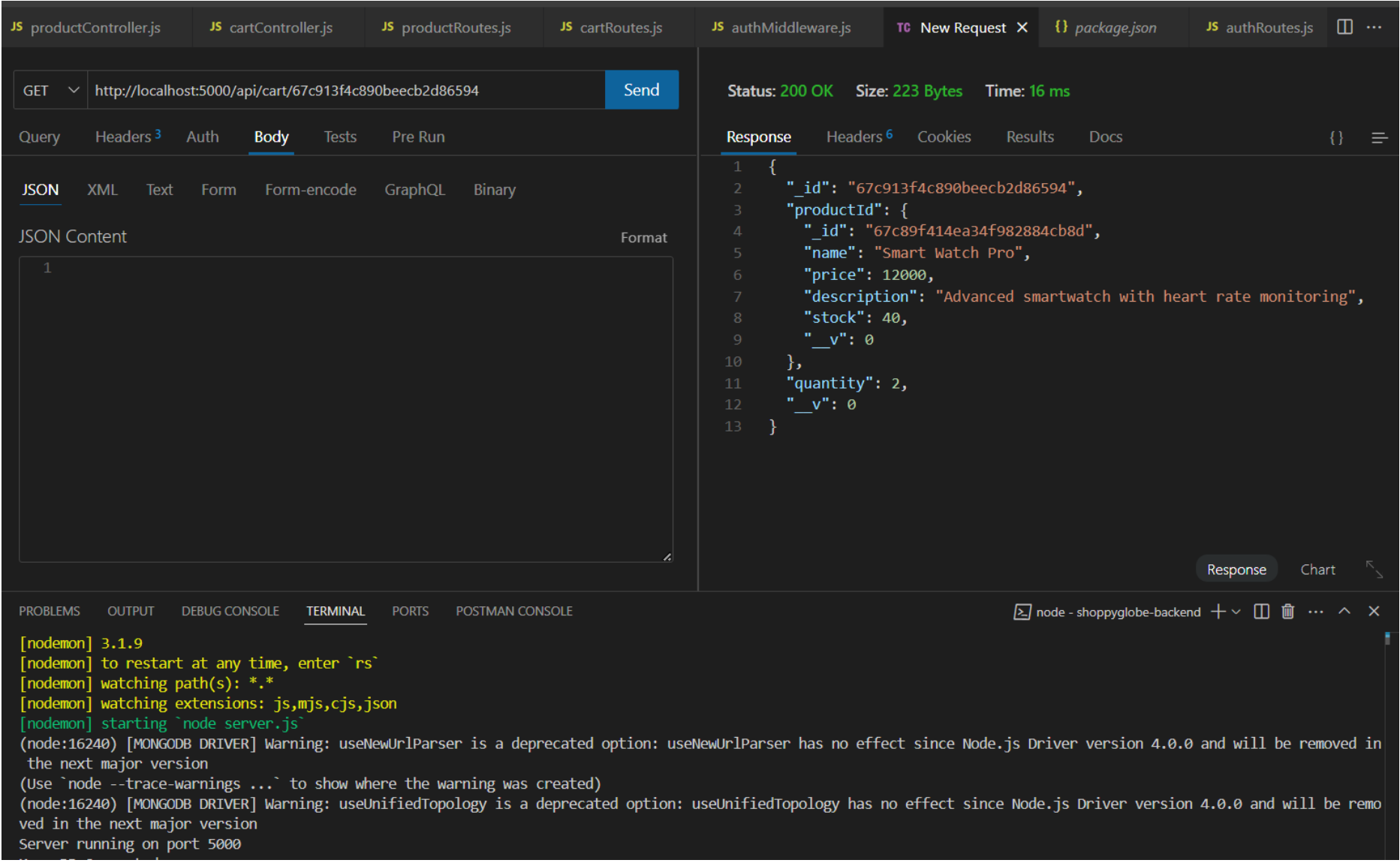
MONGODB PRODUCT SREENSHOT



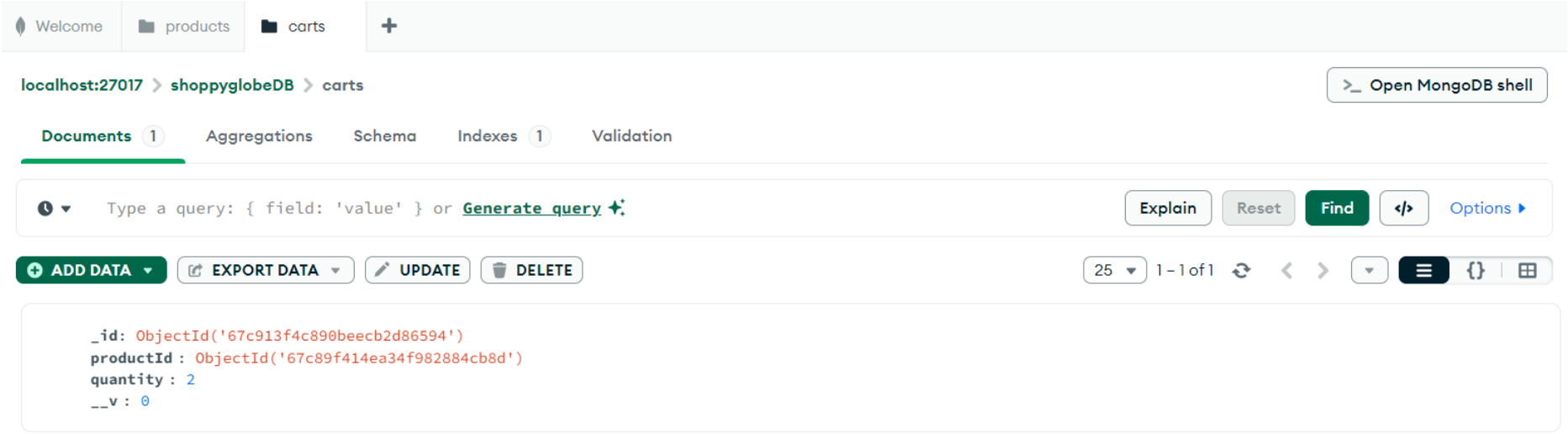
Get a Specific Cart Item by ID

- Method: GET
- URL: <http://localhost:5000/api/cart/67c913f4c890beecb2d86594>

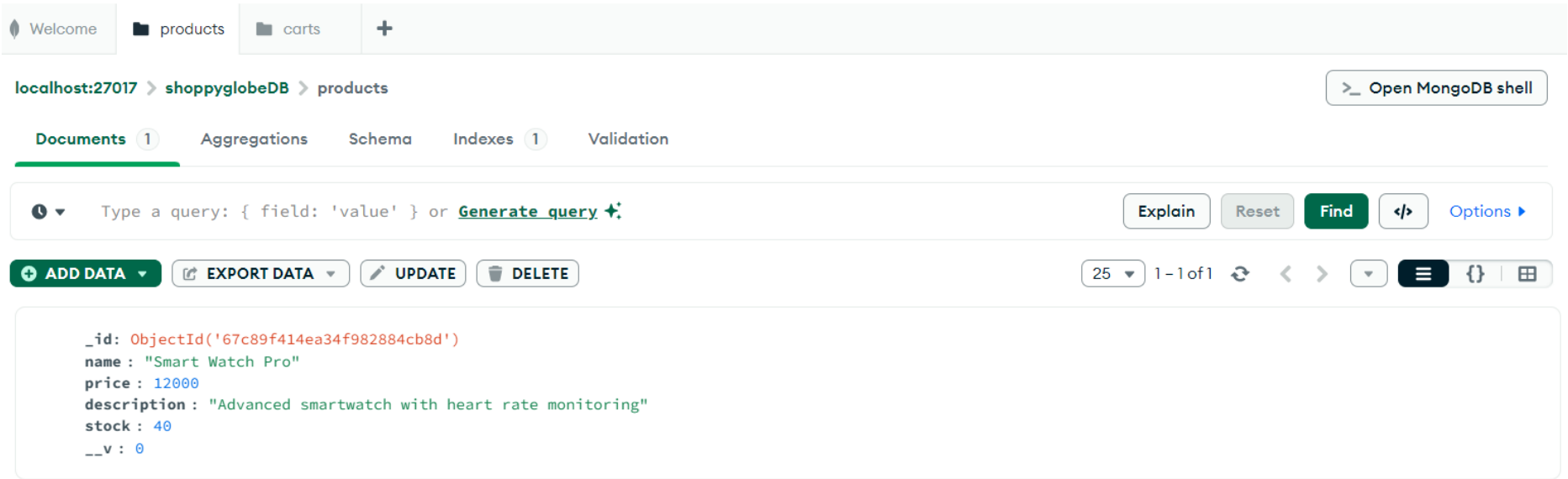
SCREENSHOT



MONGODB CART SCREENSHOT



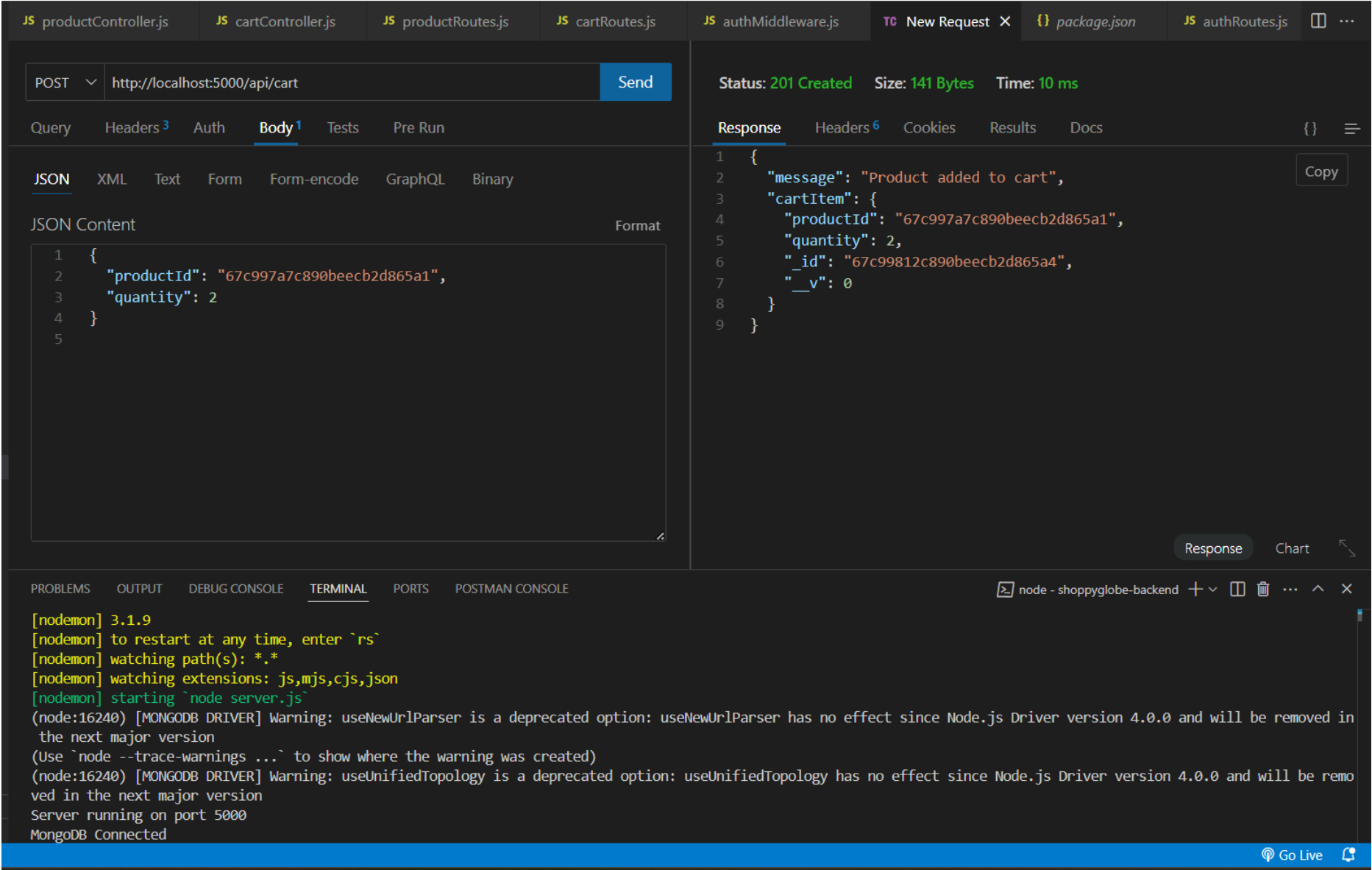
MONGODB PRODUCT SCREENSHOT



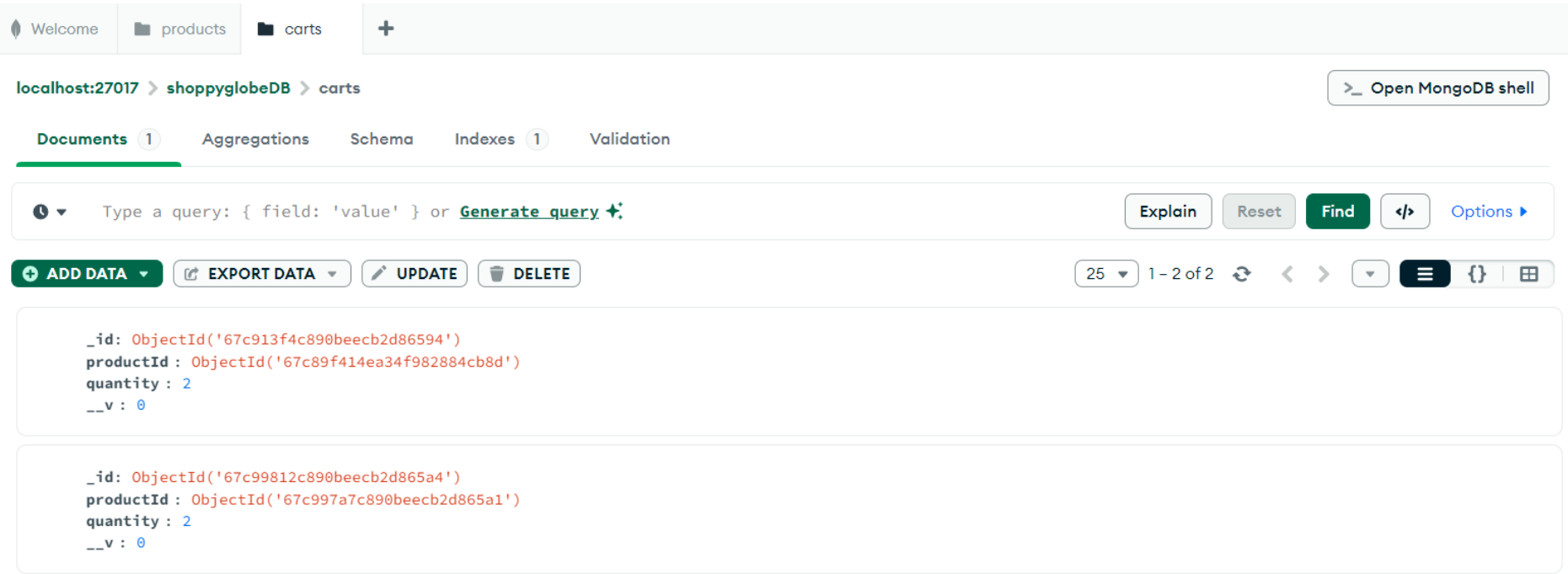
Add a Product to the Cart

- Method: POST
- URL: <http://localhost:5000/api/cart>

SCREENSHOT



SCREENSHOT OF THE CART



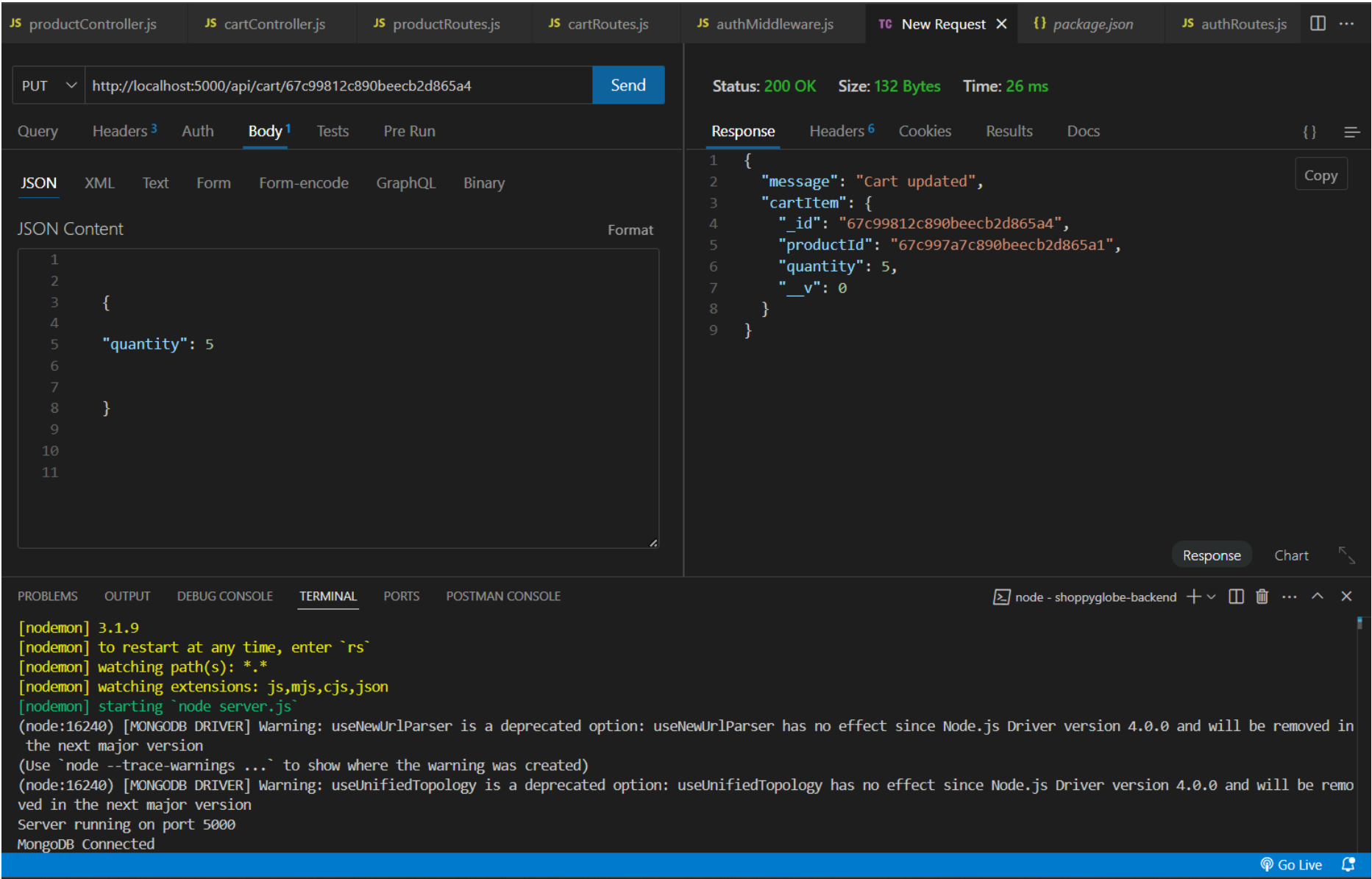
Update Cart Item Quantity

- Method: PUT

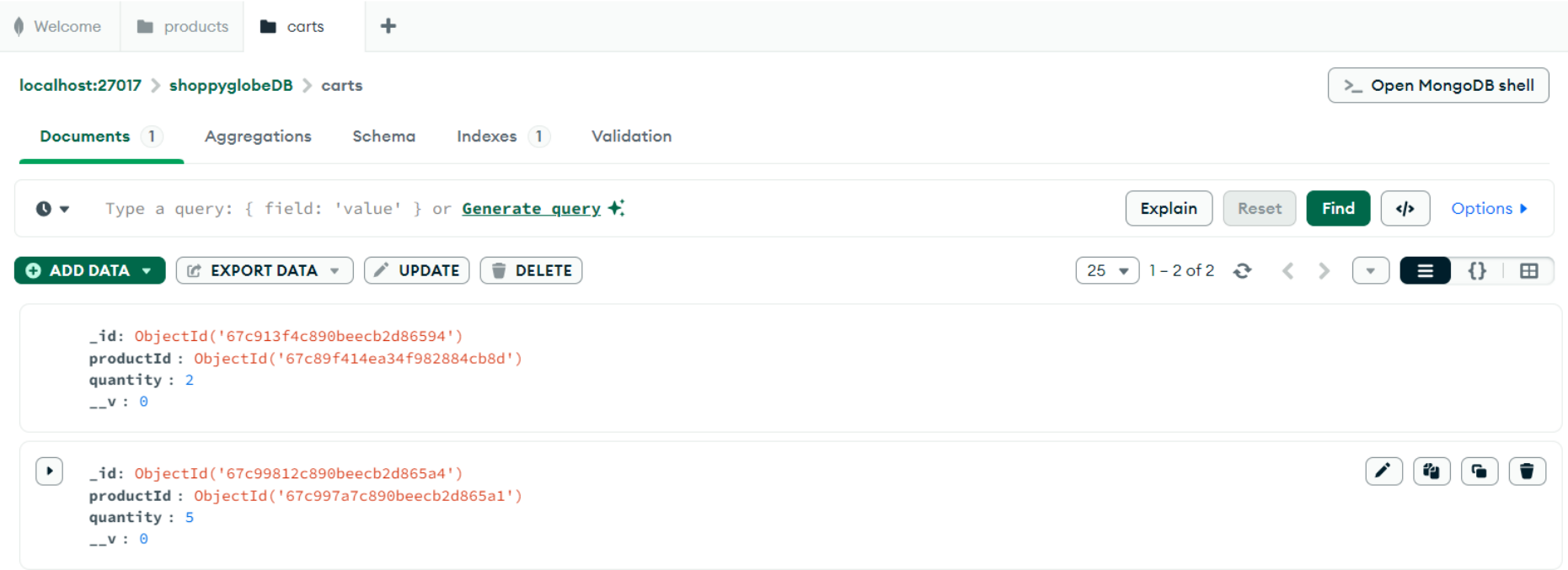
- URL:

<http://localhost:5000/api/cart/67c99812c890beecb2d865a4>

SCREENSHOT



SCREENSHOT OF MONGODB CART COLLECTION



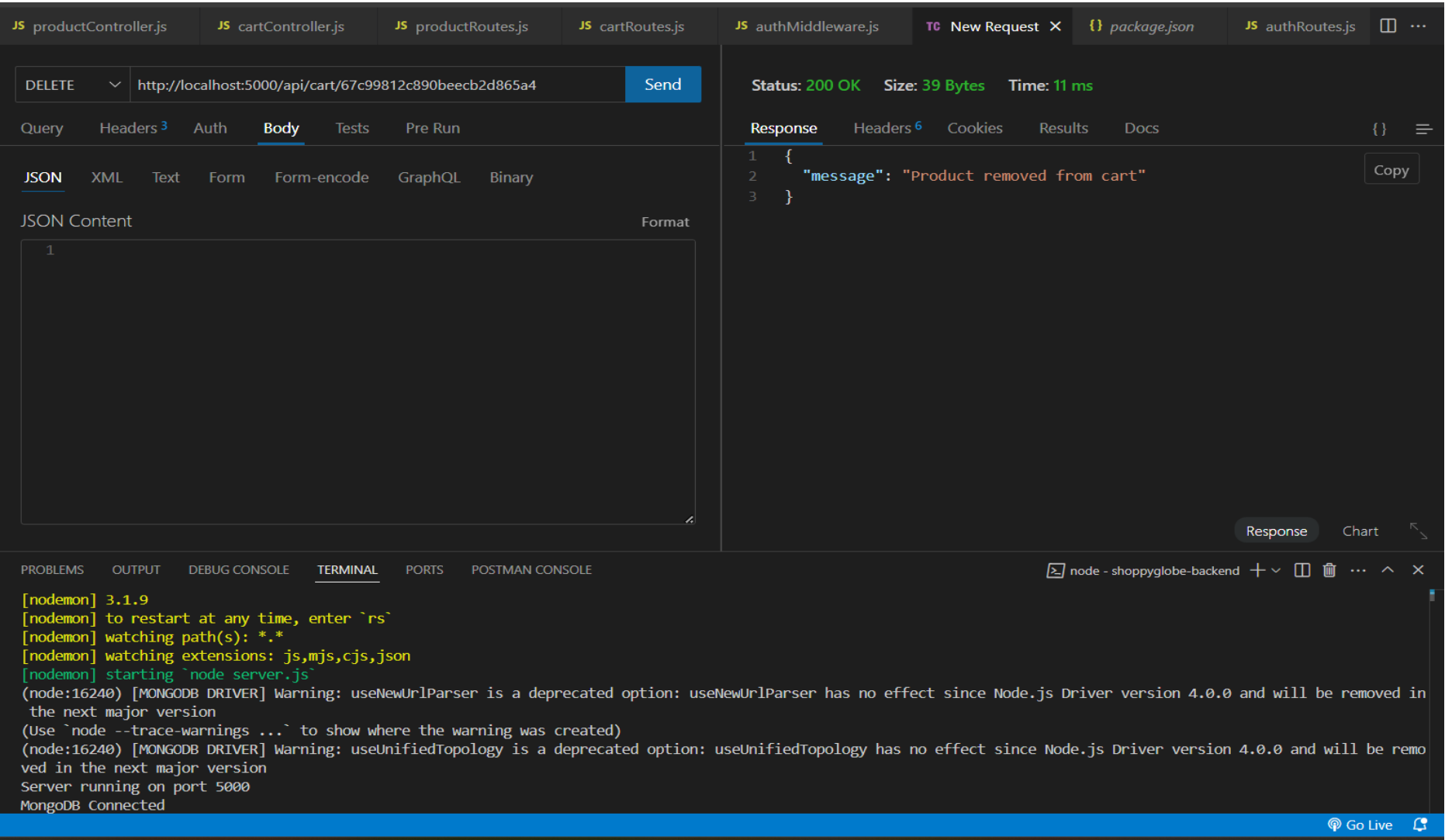
Remove a Product from the Cart

• Method: DELETE

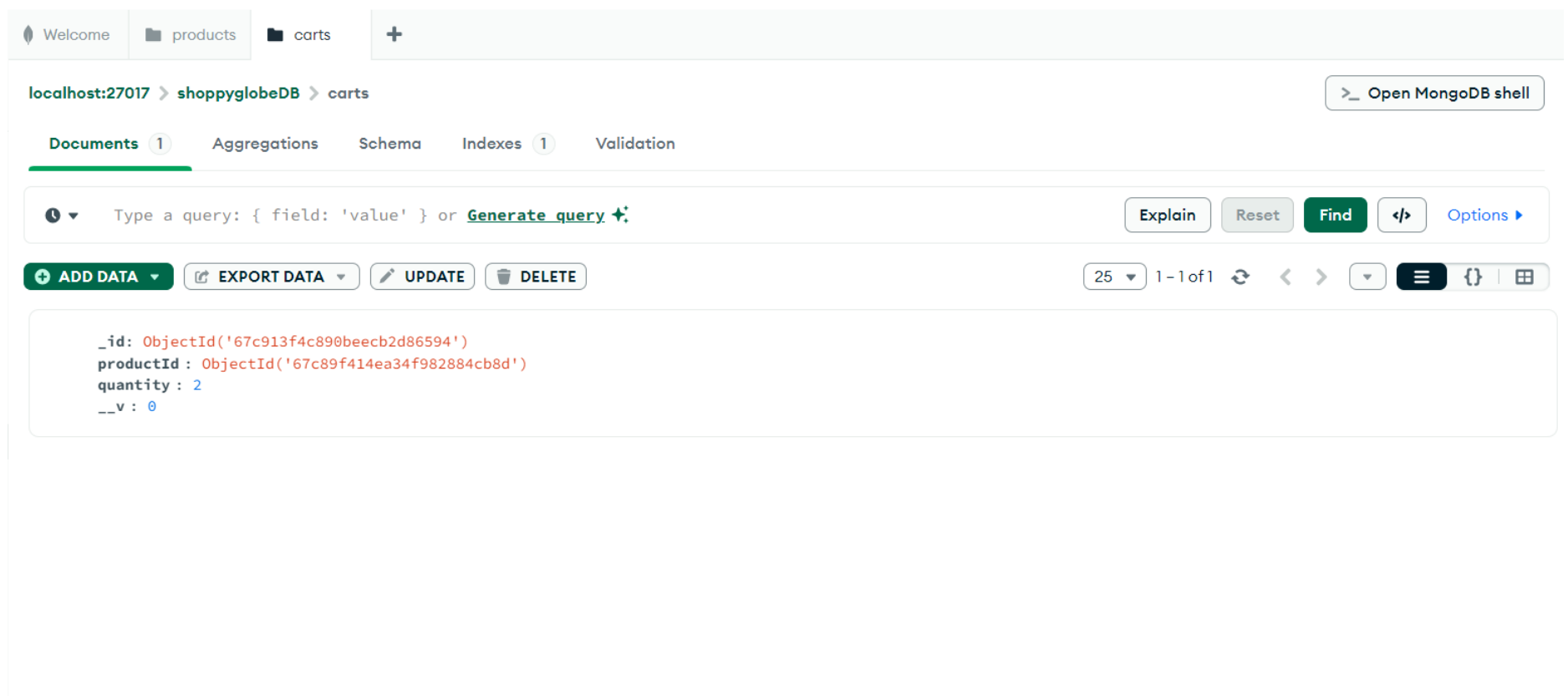
• URL:

<http://localhost:5000/api/cart/67c99812c890beecb2d865a4>

SCREENSHOT



SCREENSHOT OF MONGODB CART COLLECTION



SUMMARY

Add a Product → POST /api/products → Sends product details (name, price, description, stock).

Get All Products → GET /api/products → Fetches all available products from the database.

Add to Cart → POST /api/cart → Adds a product to the cart with product ID and quantity.

Get Cart Items → GET /api/cart → Retrieves all cart items for the logged-in user.

Update Cart Item → PUT /api/cart/:id → Modifies quantity of an existing cart item.

Remove from Cart → DELETE /api/cart/:id → Deletes a product from the cart.