**ShoppyGlobe E-Commerce API Project**

**Project Overview**

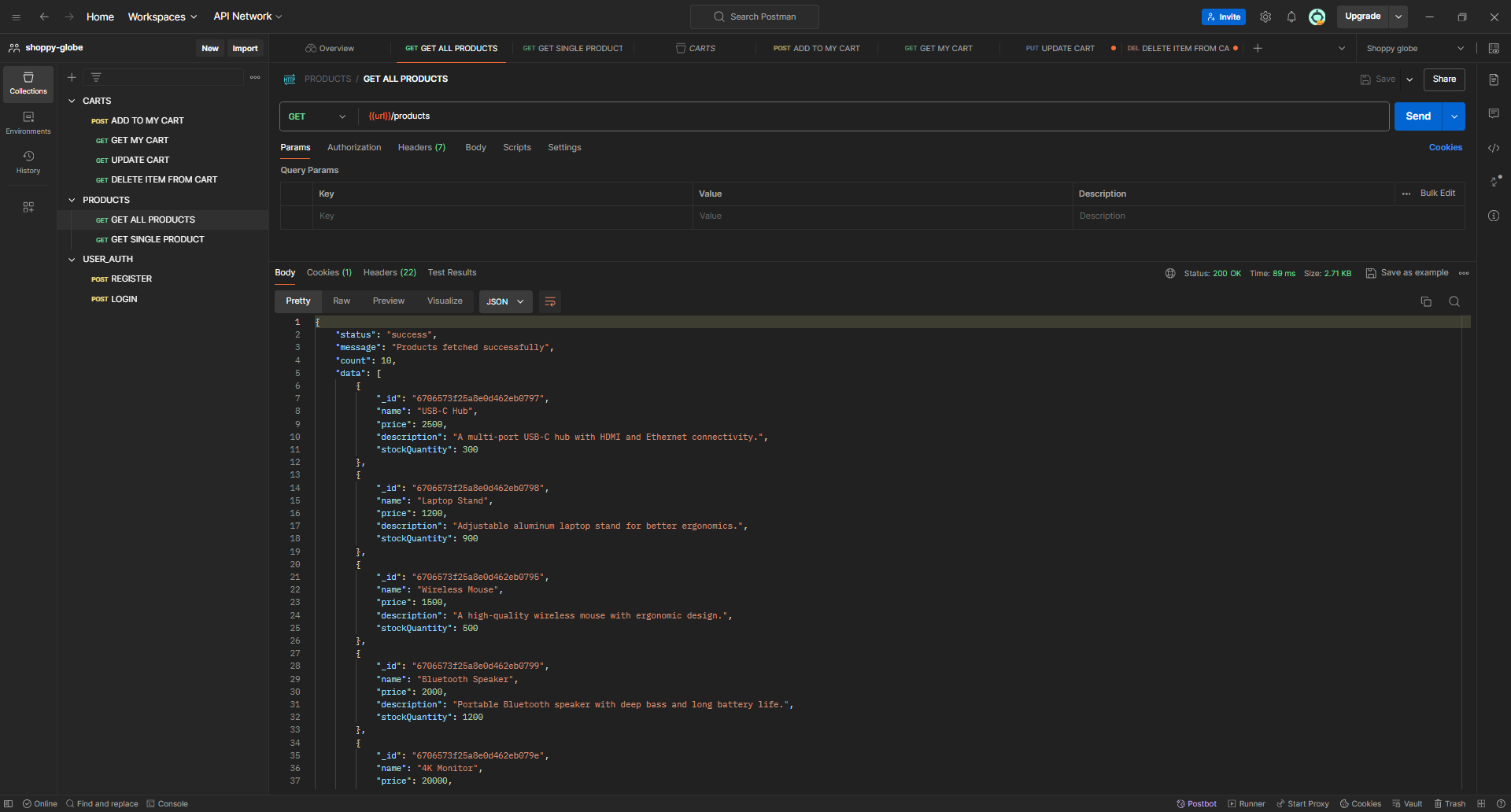
This project aims to create a backend API for ShoppyGlobe, an e-commerce application, using Node.js, Express.js, and MongoDB.

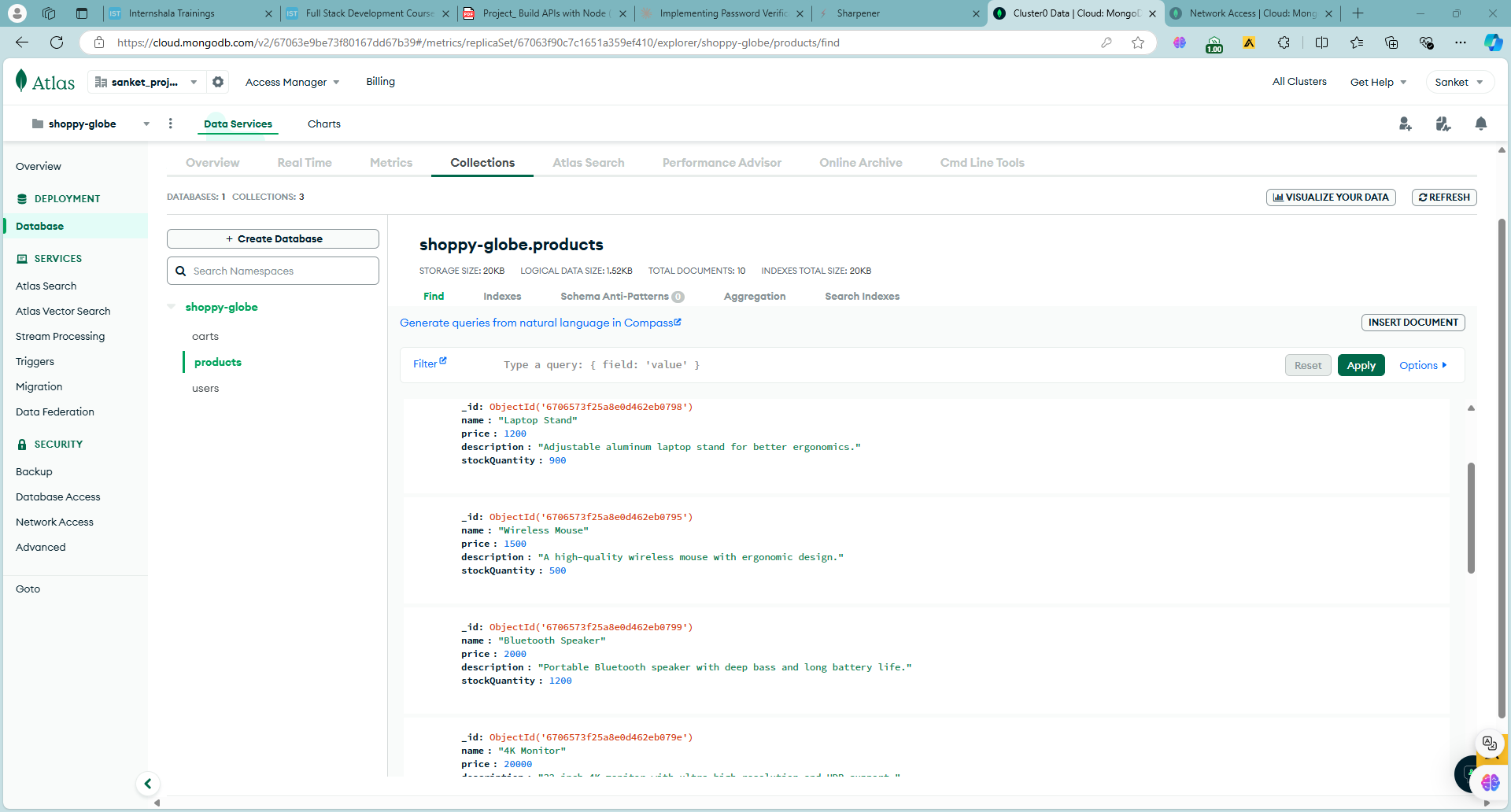
**Objectives**

* Develop RESTful APIs to manage products and shopping cart functionalities.
* Implement user authentication and authorization.
* Ensure robust error handling and input validation

**1. Get All Products**

* **Endpoint:** GET /api/v1/products
* **Description:** Retrieves all products from the database.
* **Response:** Array of product objects.

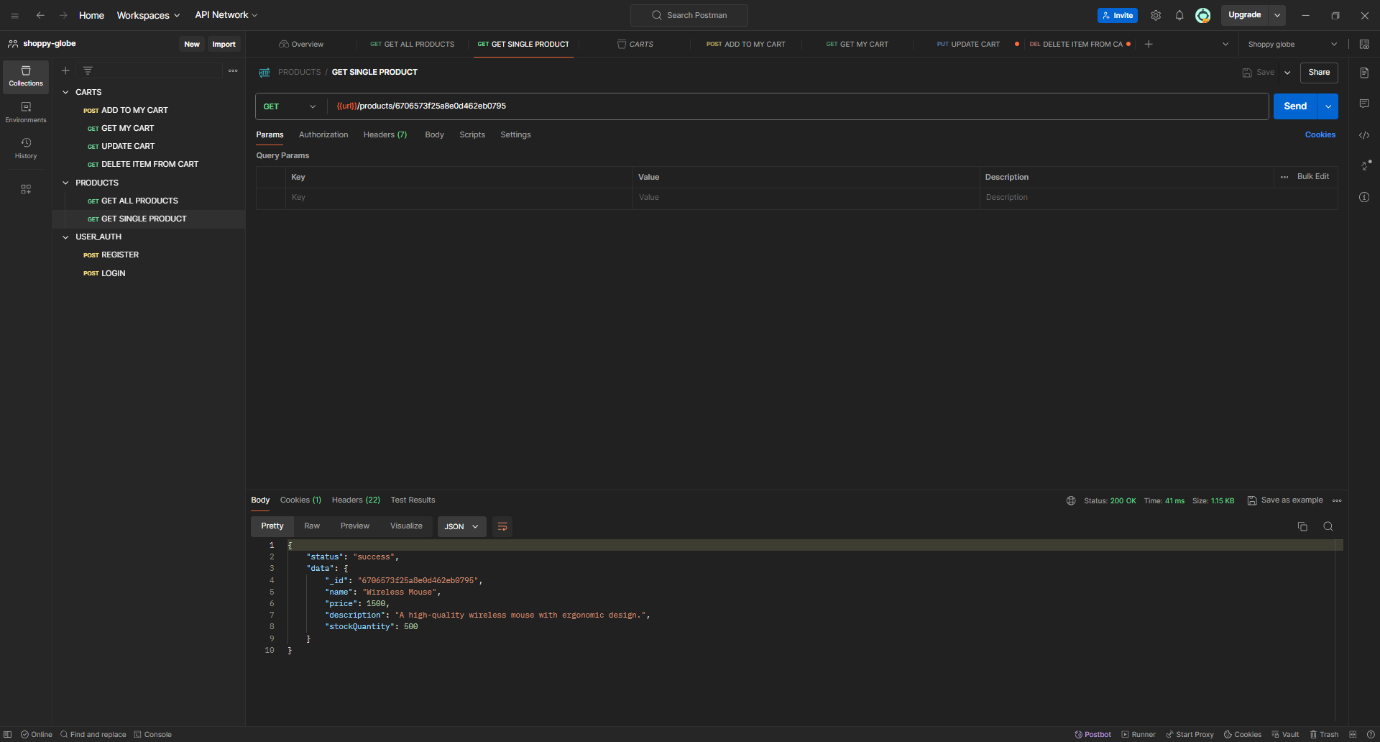


MongoDB SC - 

**2. Get Single Product**

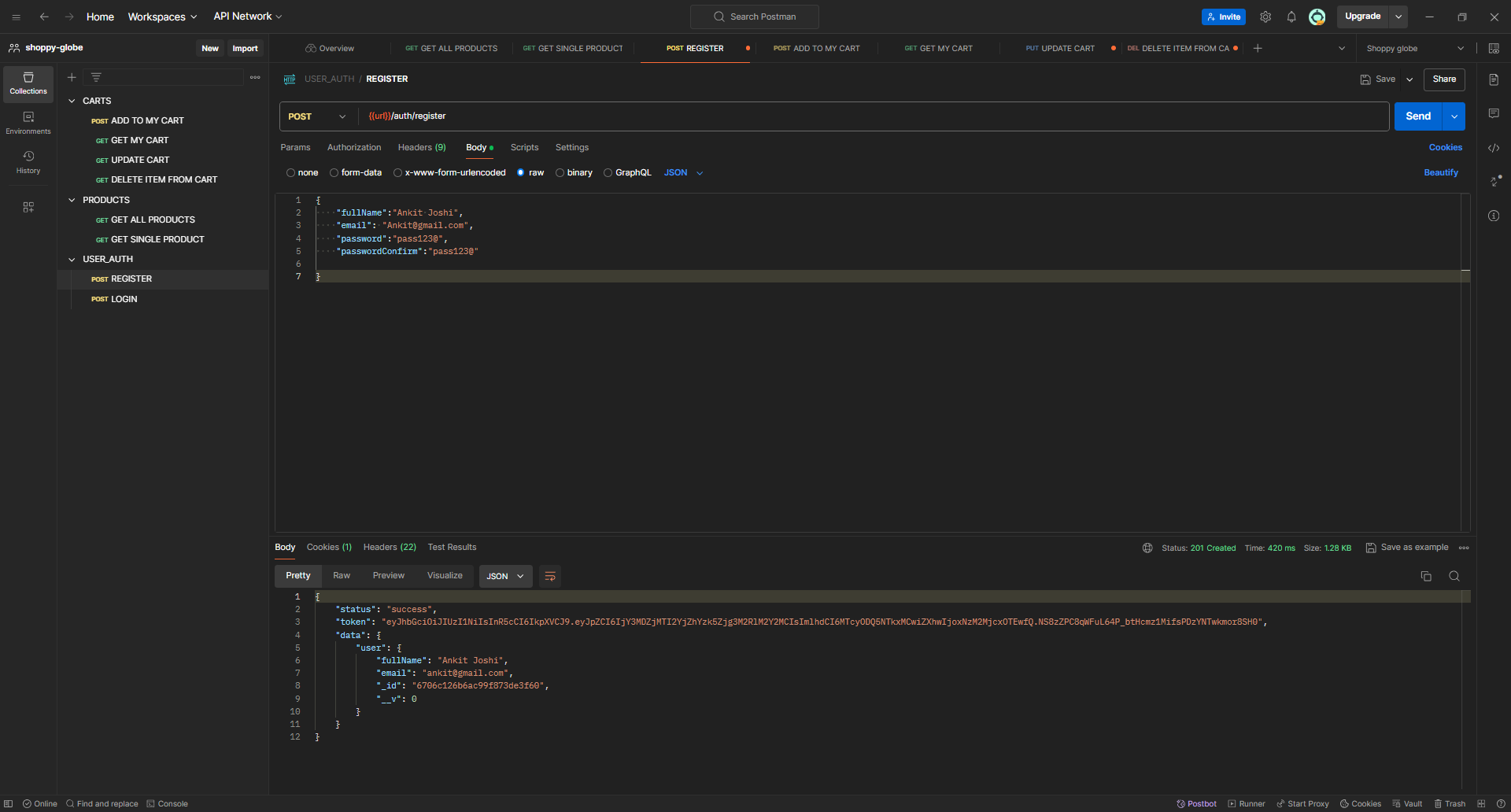
* **Endpoint:** GET /api/v1/products/:id
* **Description:** Retrieves a single product by its ID.
* **Response:** Single product object.

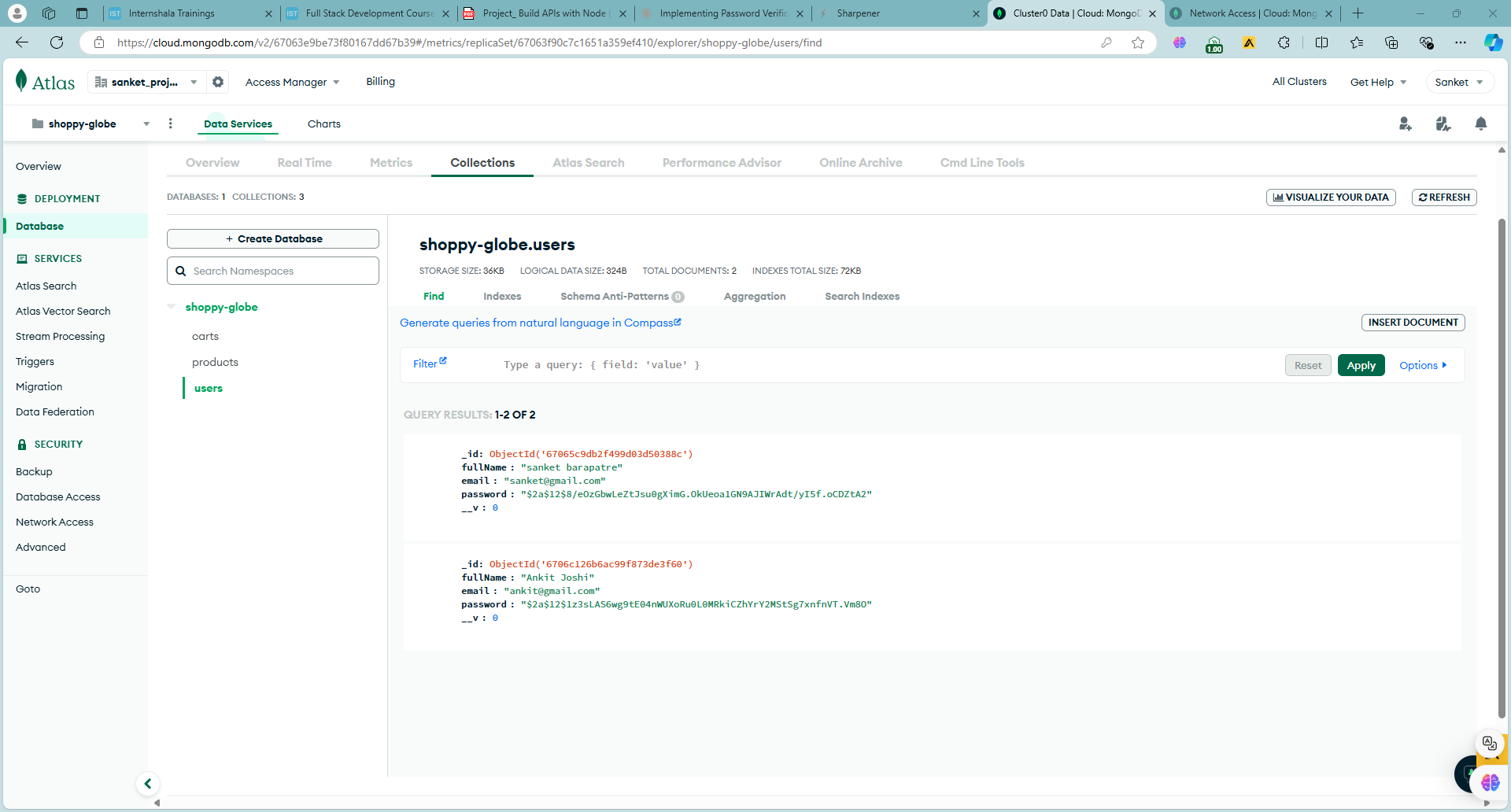
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**3. Register User**

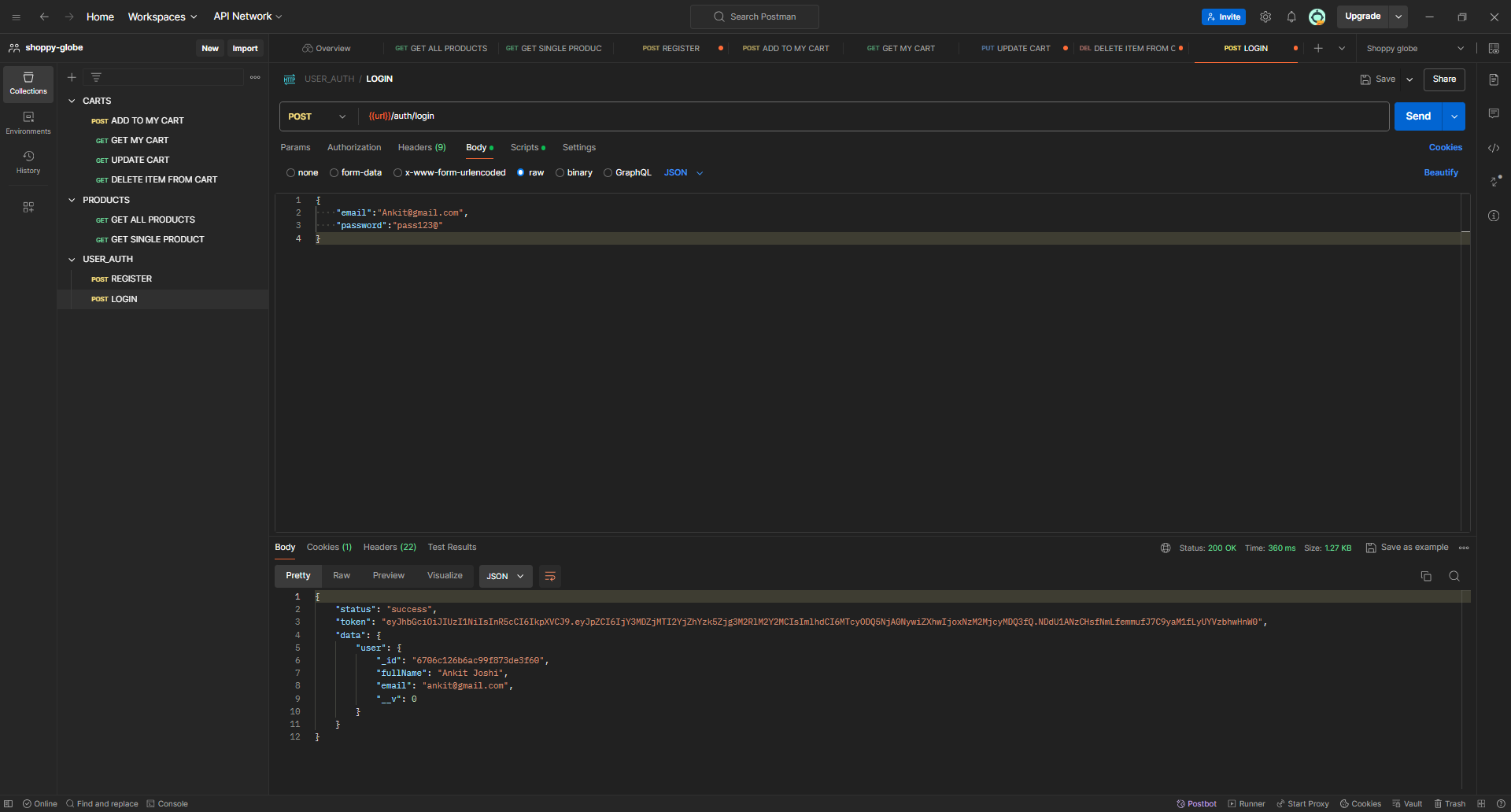
* **Endpoint:** POST /api/v1/auth/register
* **Description:** Registers a new user in the system.
* **Request Body:** User details (name, email, password).
* **Response:** User object with JWT token.



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**4. Login User**

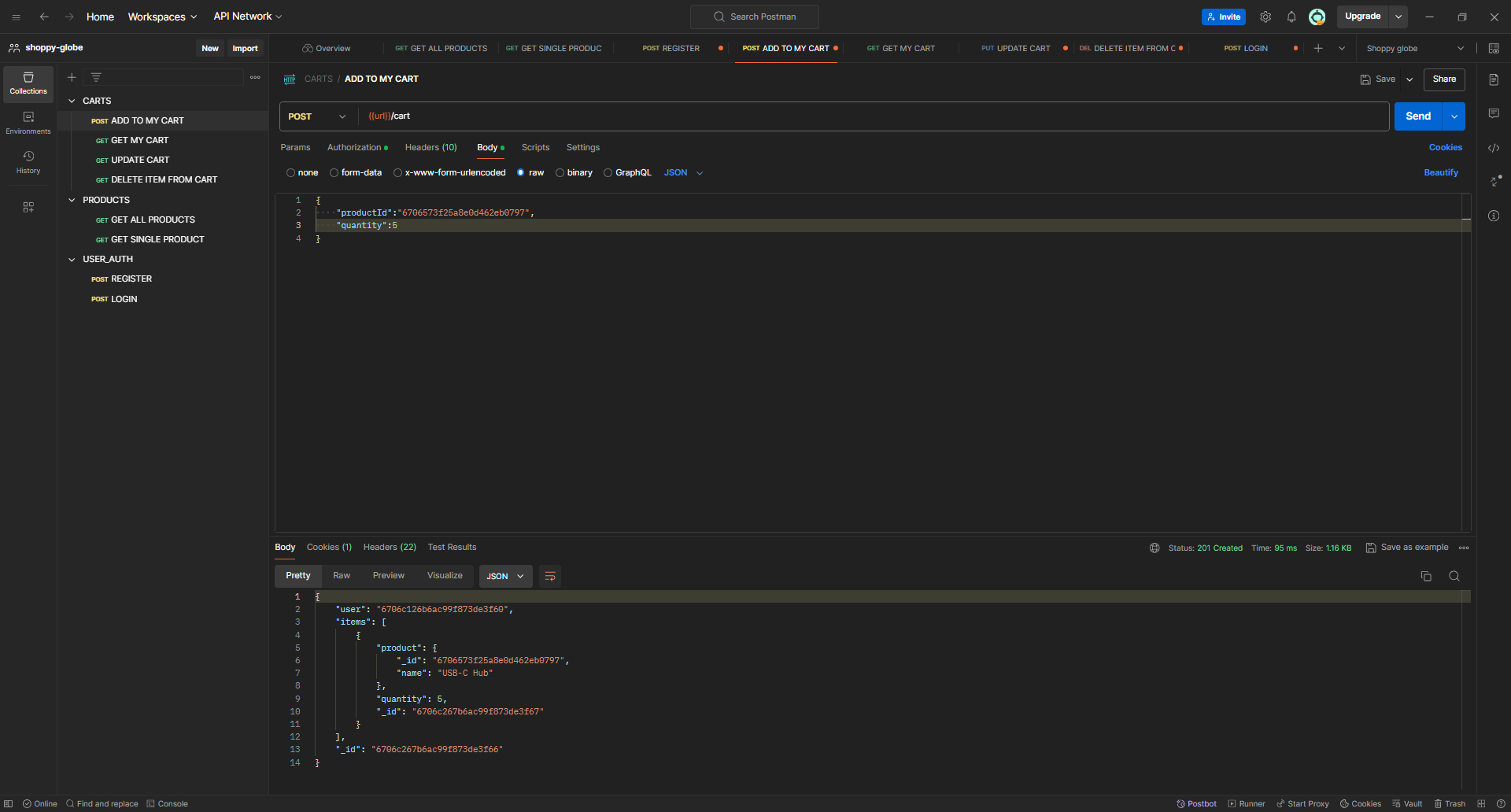
* **Endpoint:** POST /api/v1/auth/login
* **Description:** Authenticates a user and provides a JWT token.
* **Request Body:** User credentials (email, password).
* **Response:** User object with JWT token.

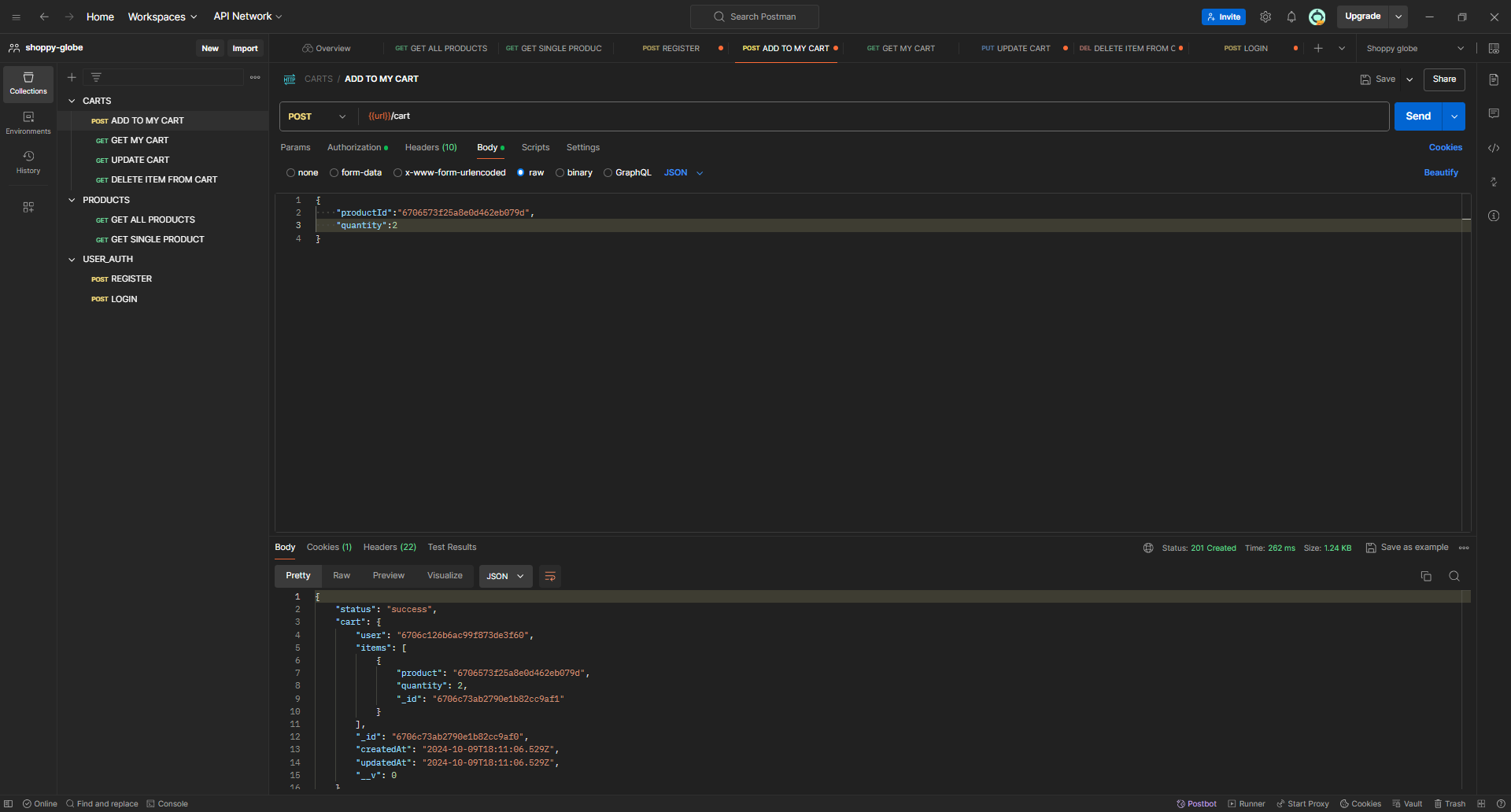


**\*\*\* All cart-related endpoints require user authentication.**

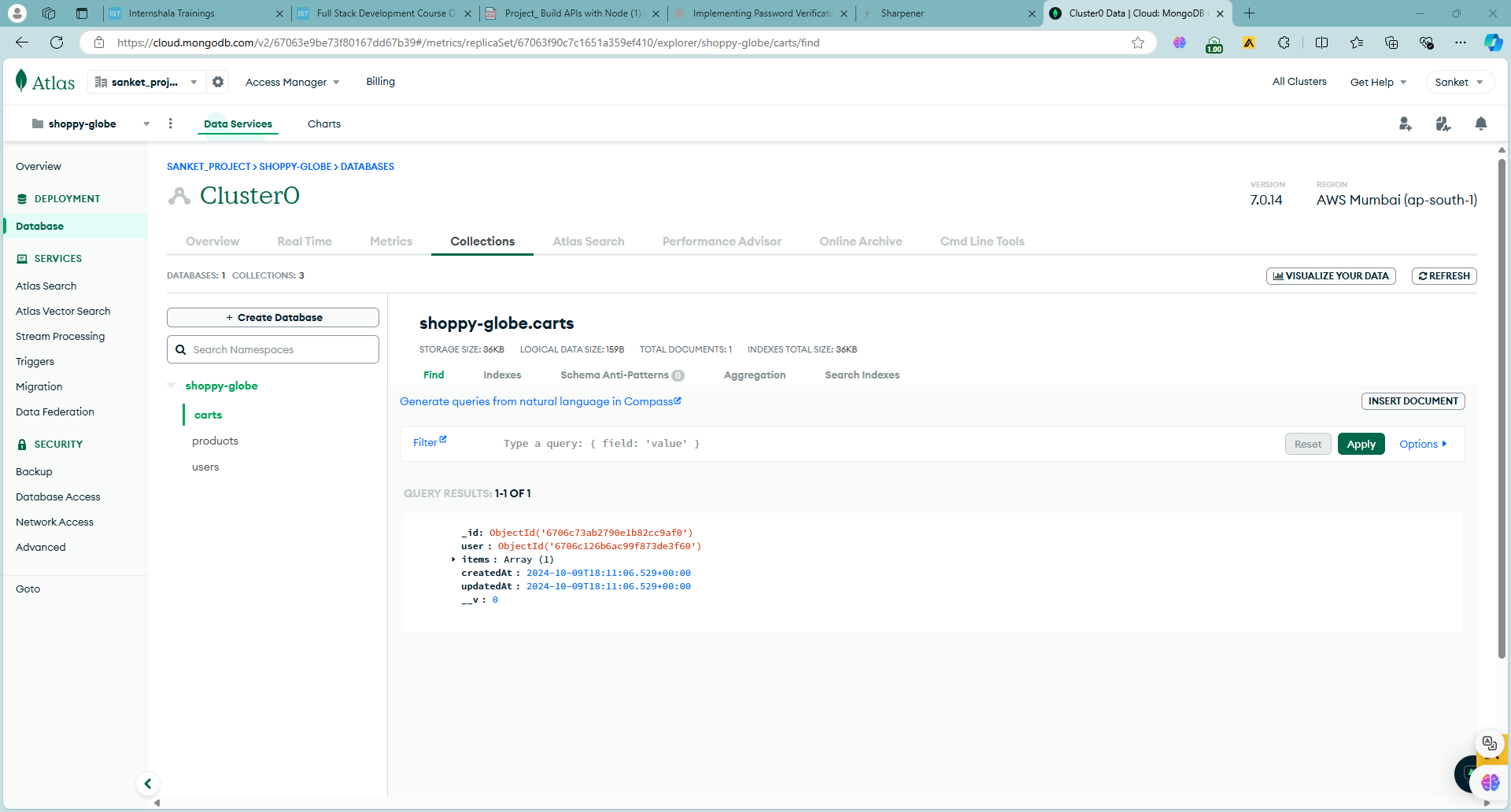
**5. Add Product to Cart**

* **Endpoint:** POST /api/v1/cart
* **Description:** Adds a product to the user's shopping cart.
* **Request Body:** Product ID and quantity.
* **Response:** Updated cart object.



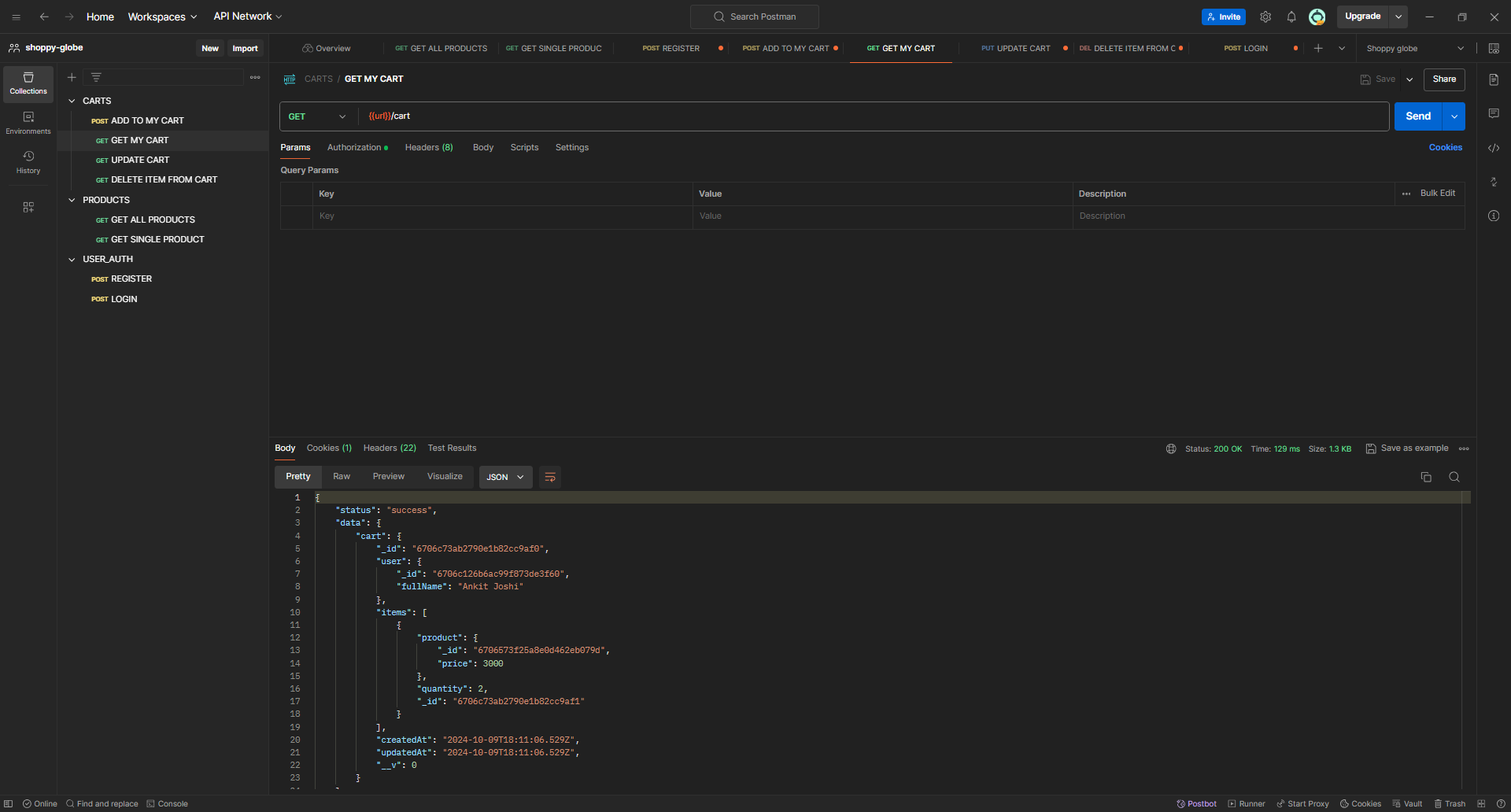


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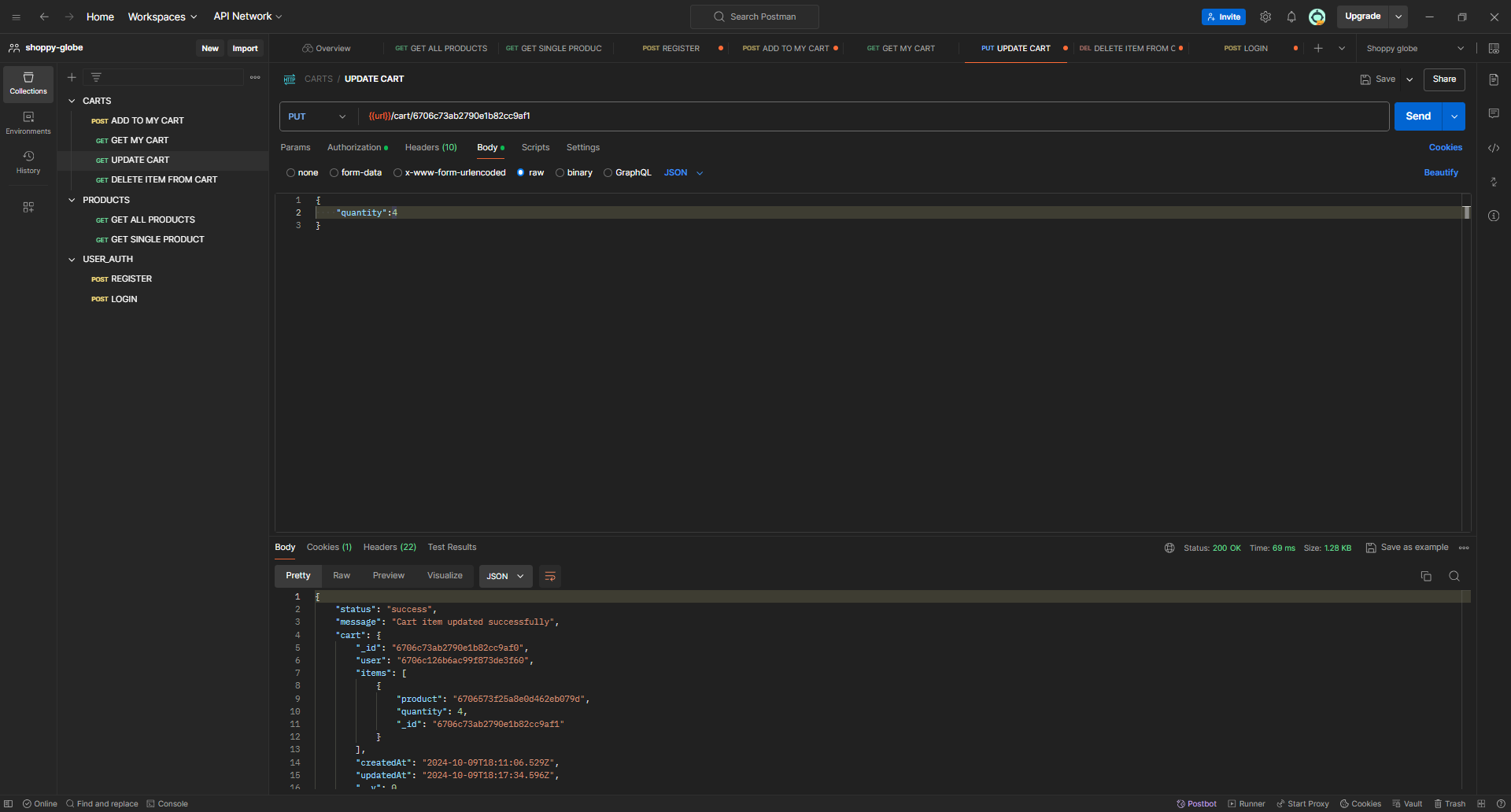
**6. Get User's Cart**

* **Endpoint:** GET /api/v1/cart
* **Description:** Retrieves the current user's shopping cart.
* **Response:** Cart object with items.

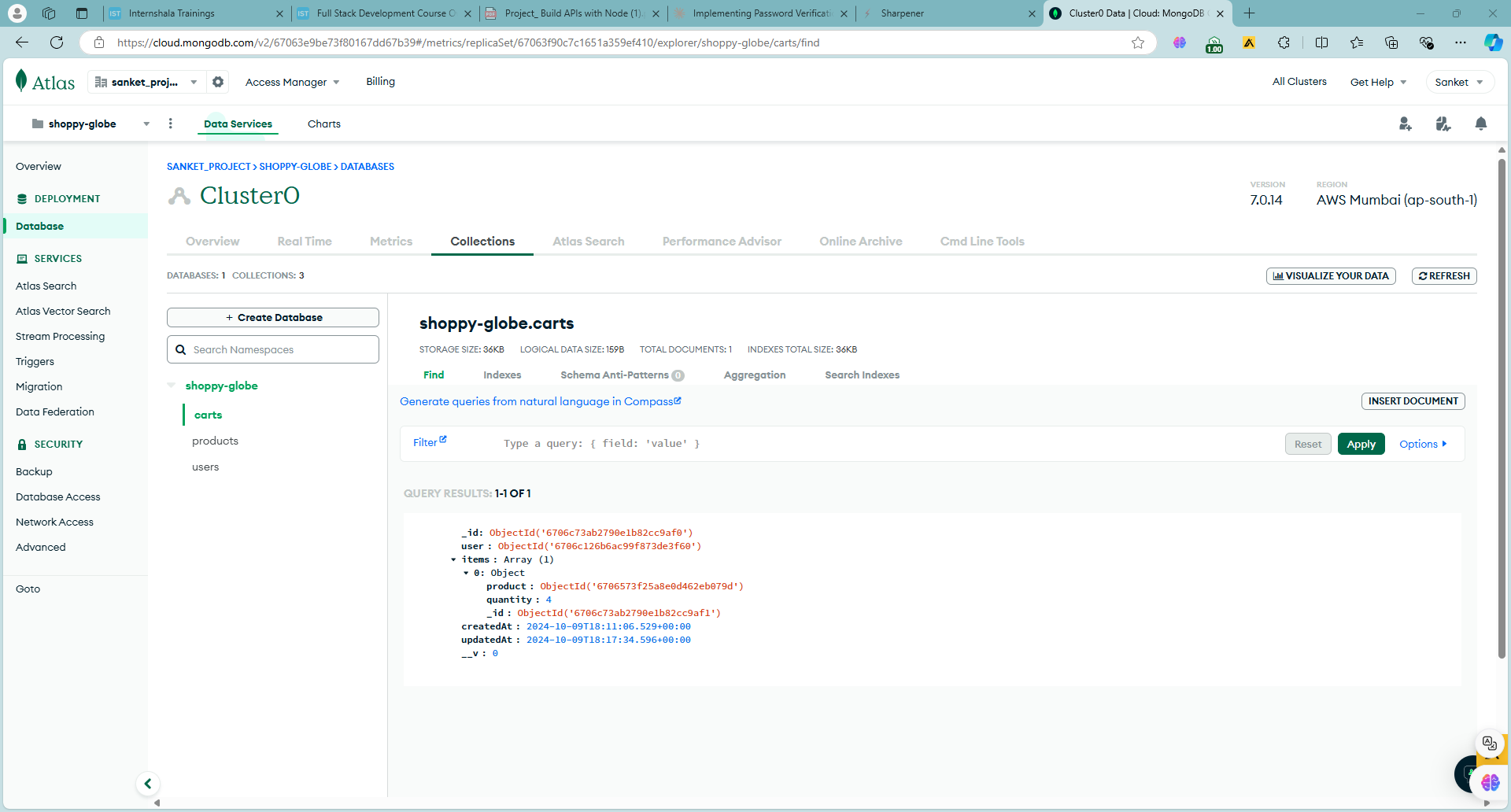


**7. Update Cart Item**

* **Endpoint:** PUT /api/v1/cart/:itemId
* **Description:** Updates the quantity of an item in the user's cart.
* **Request Body:** New quantity.
* **Response:** Updated cart object.



MongoDB-



**8. Remove Item from Cart**

* **Endpoint:** DELETE /api/v1/cart/:itemId
* **Description:** Removes an item from the user's cart.
* **Response:** Updated cart object.

