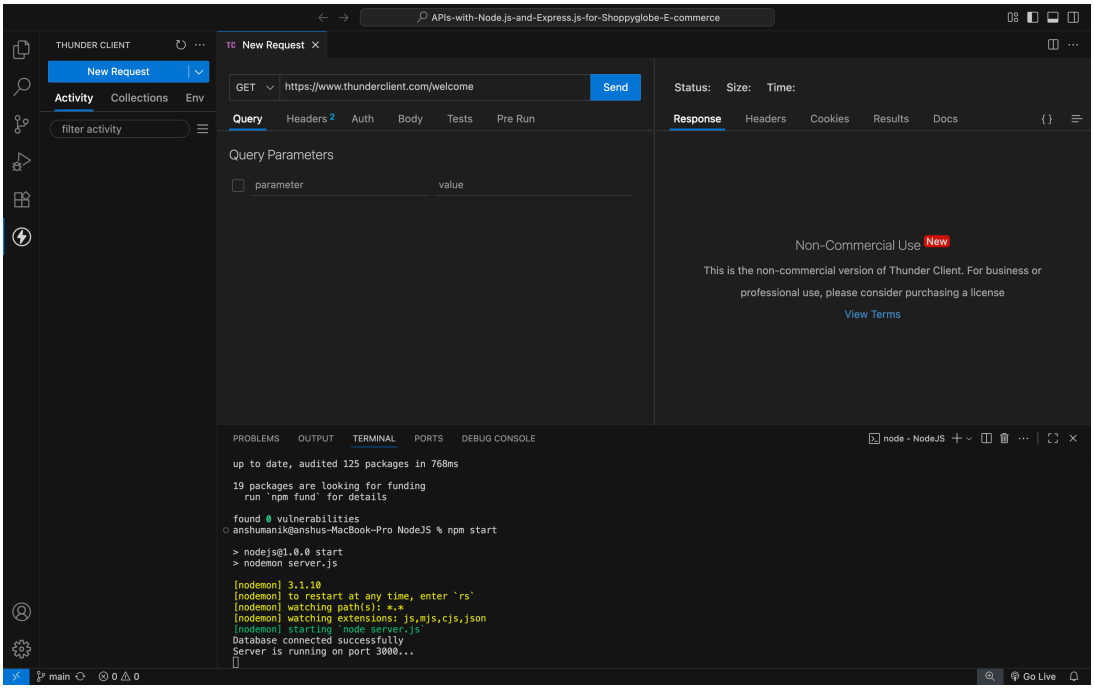
# API Testing Document

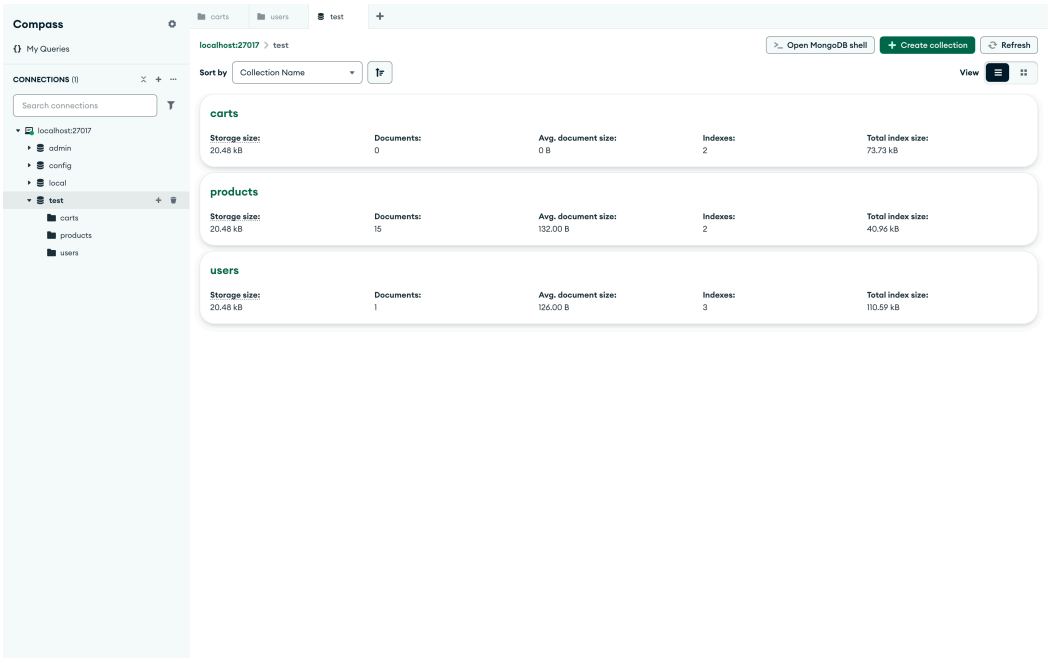
## Project: Build APIs with Node.js and Express.js for Shoppyglobe E-commerce

## Following are the output screenshots for below test cases:

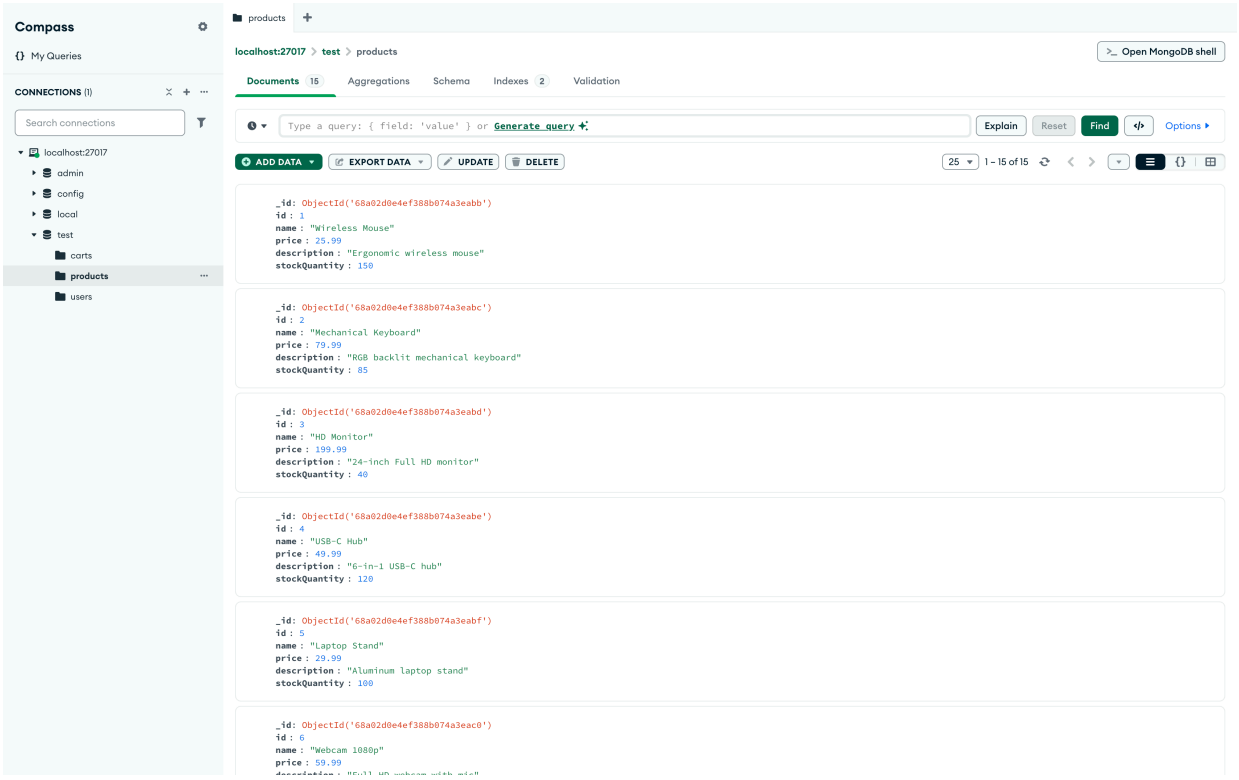
## 1. Establish Connection to server :



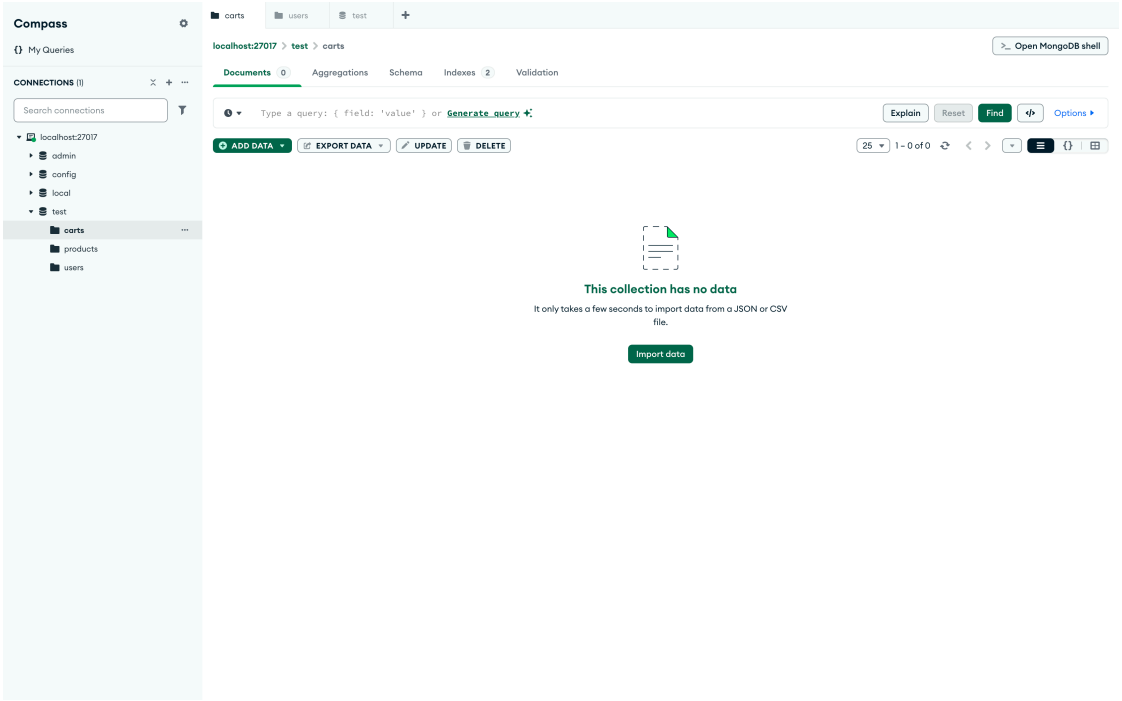

## 2. Database at server startup:



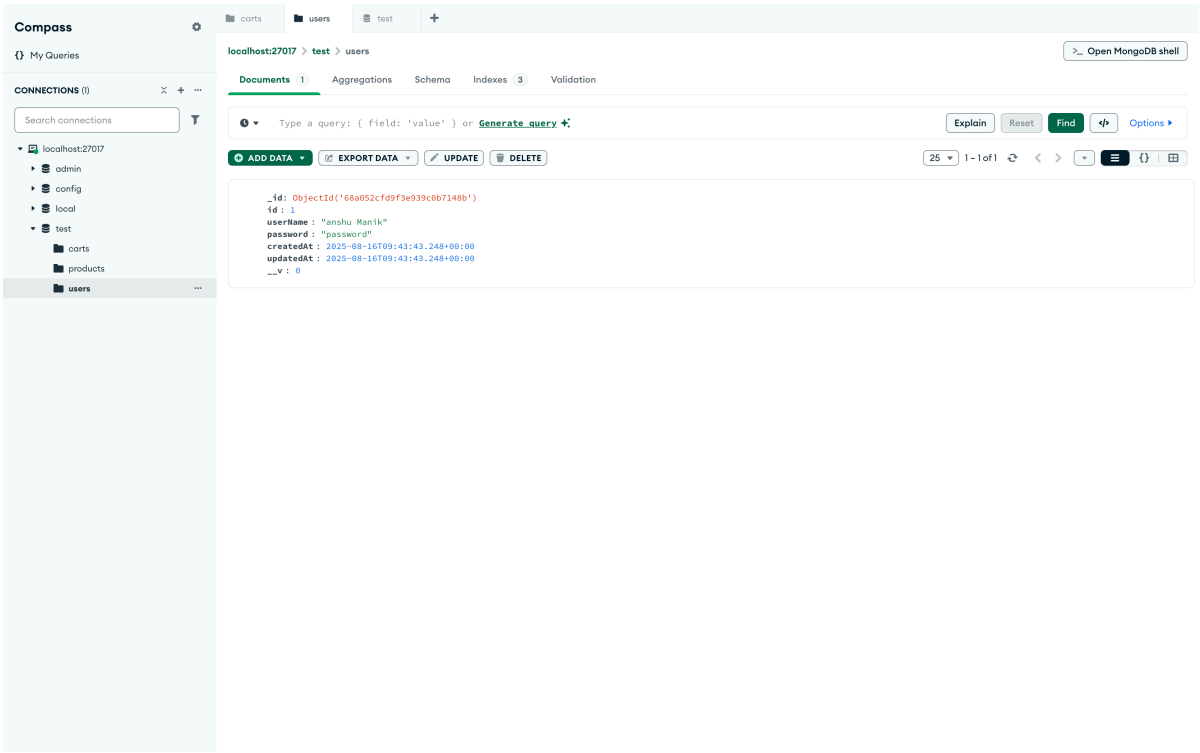
# 3. Product database at server startup:



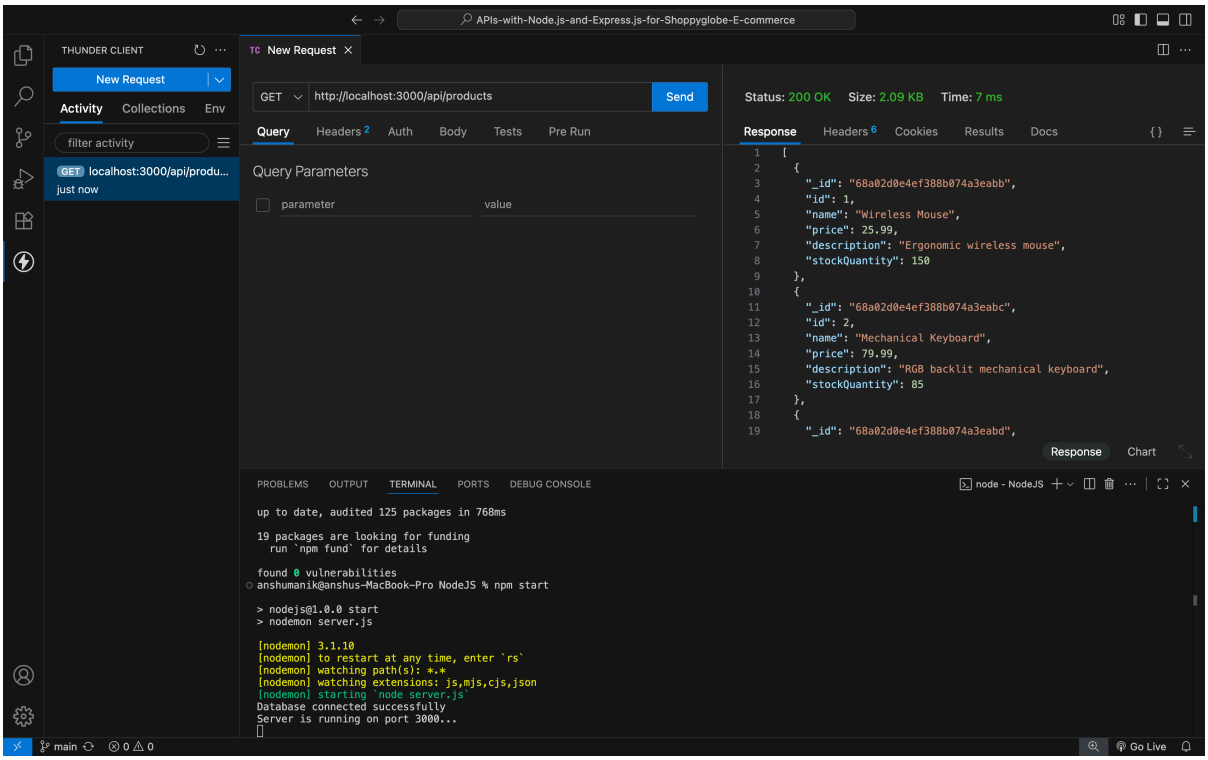

# 4. Cart database at server startup:



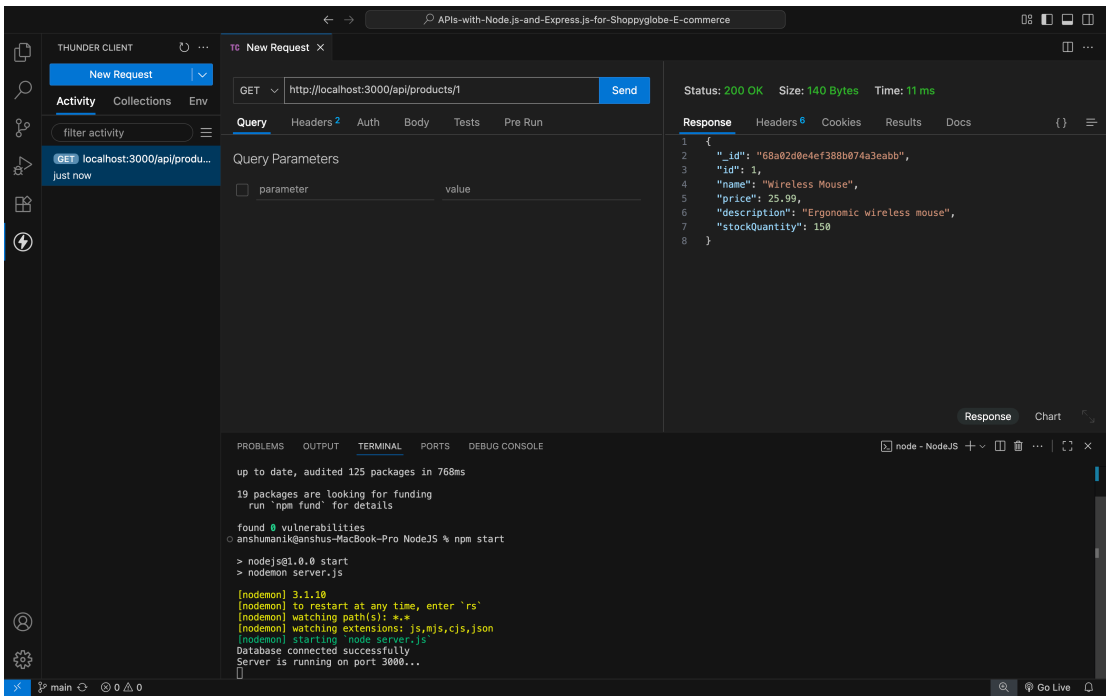
## 5. User database at server startup:



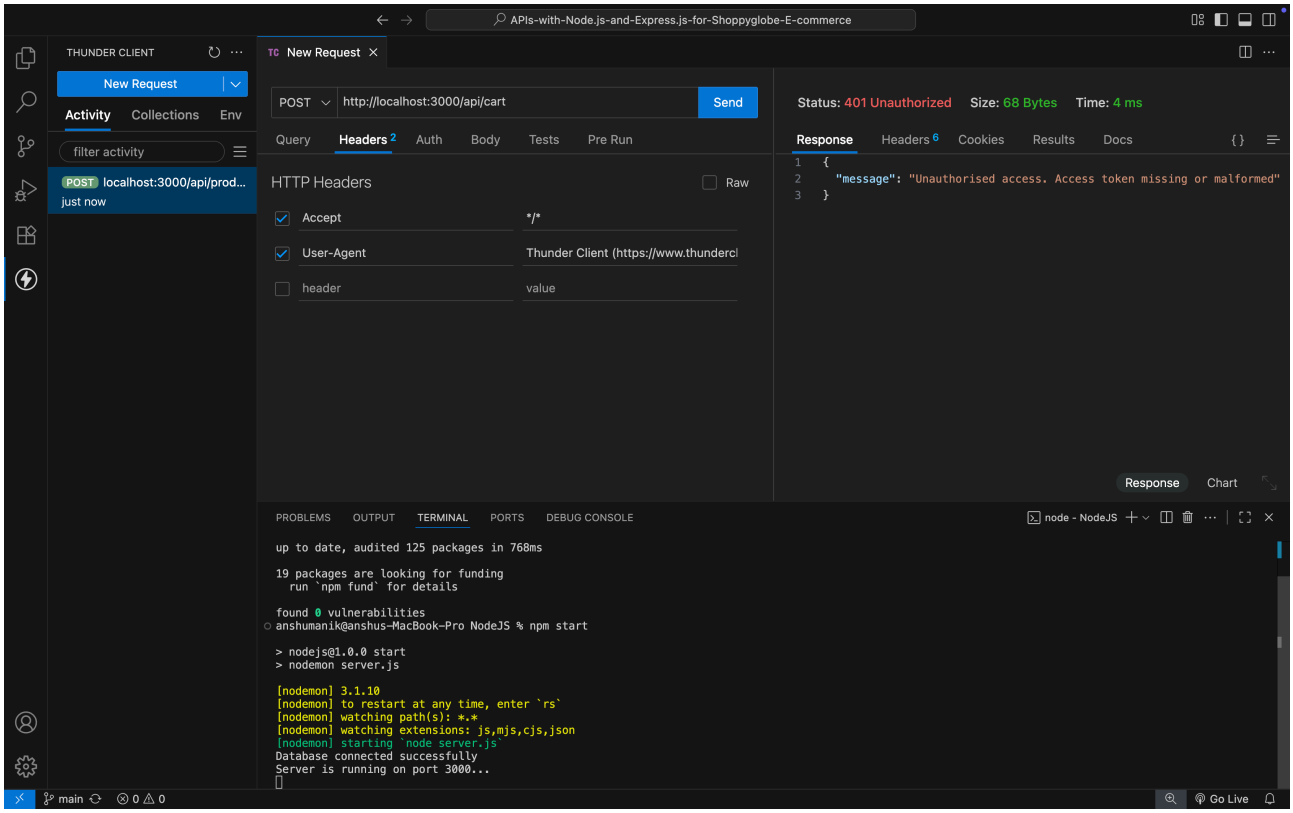

## 6. GET products API to get all products (no authentication):



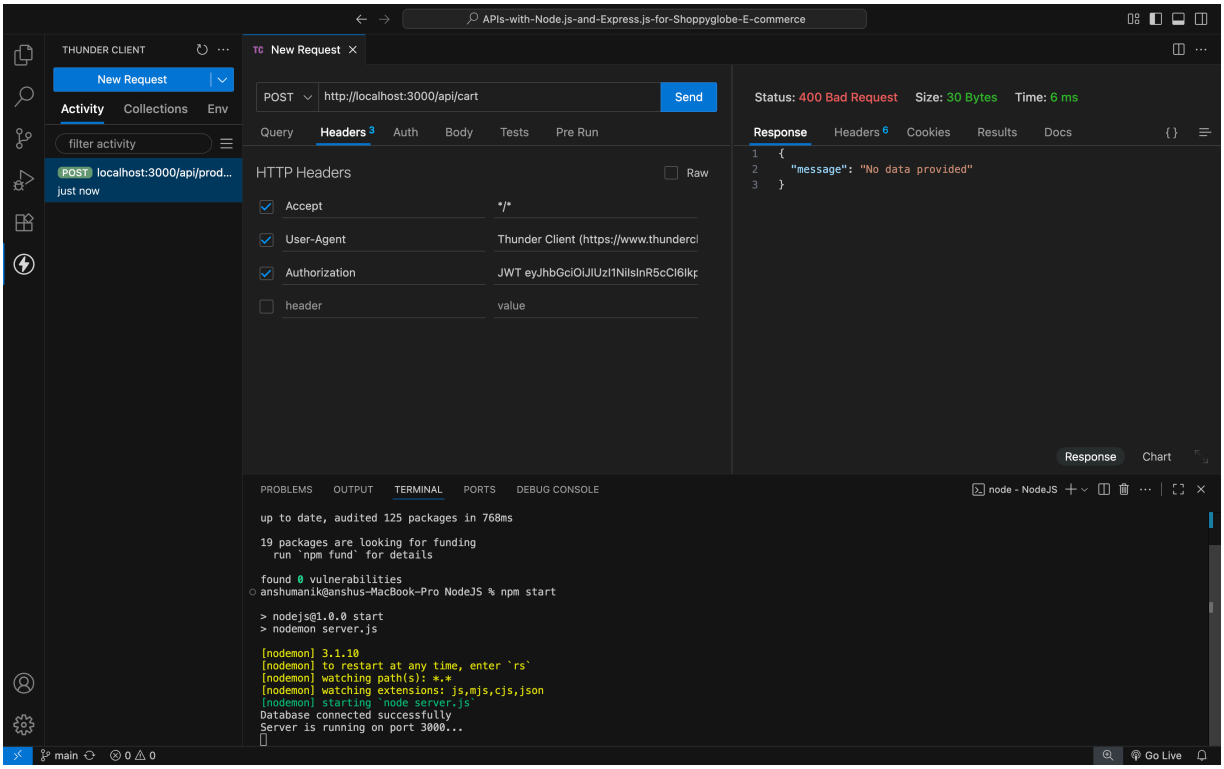
## 7. GET products API to get product by id (no authentication):

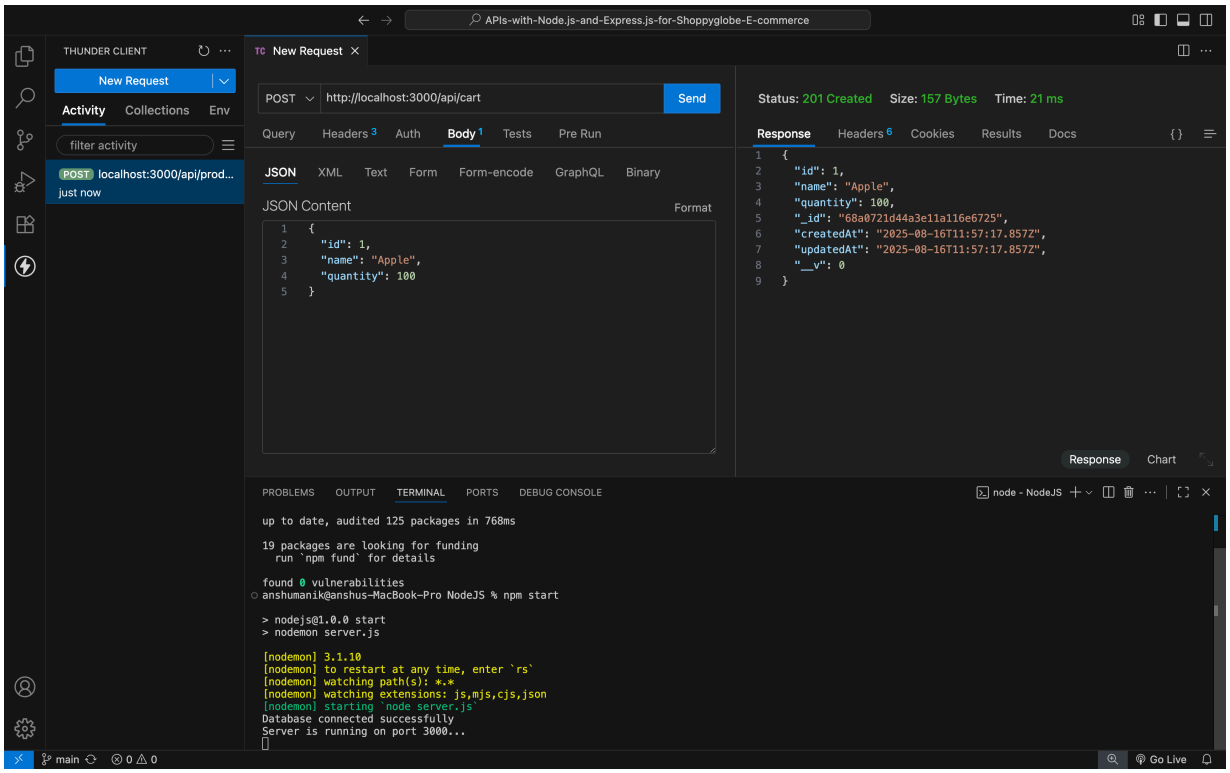


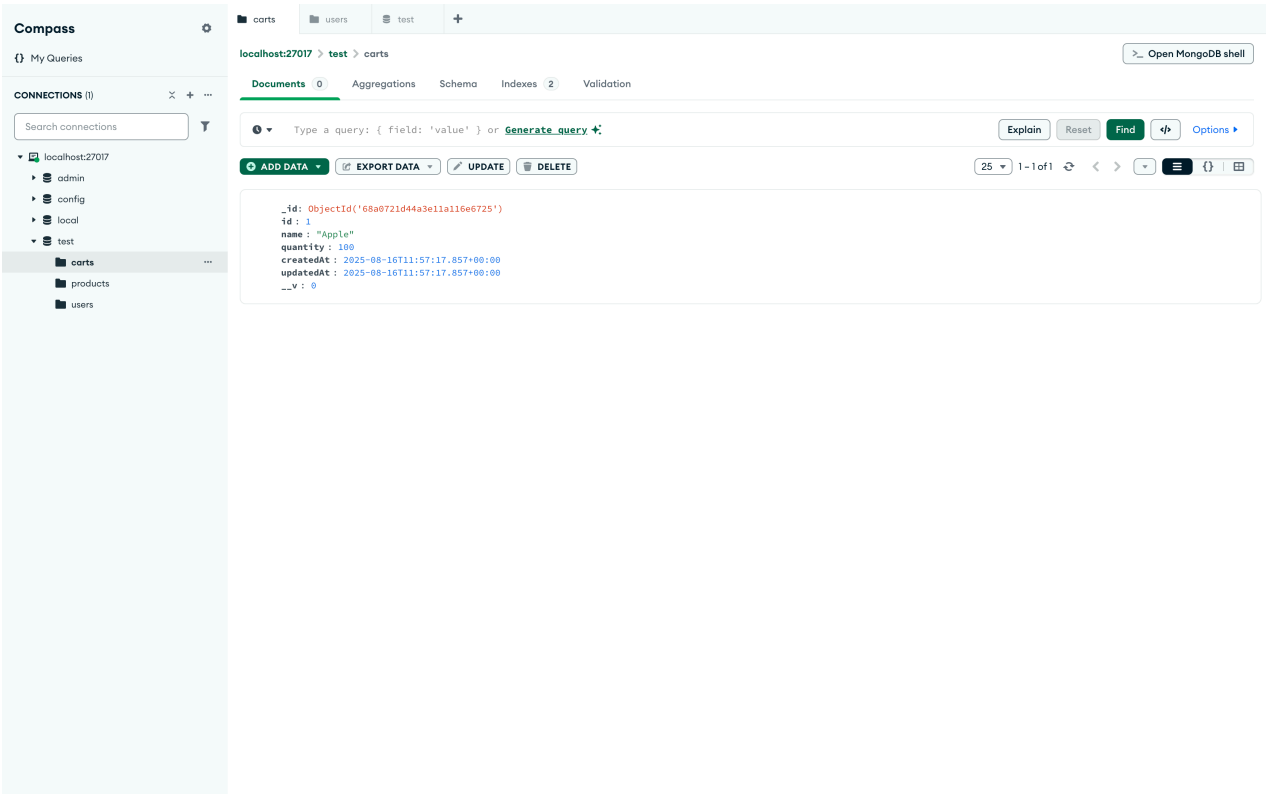

## 8. POST cart API to add item to cart (without user authentication):



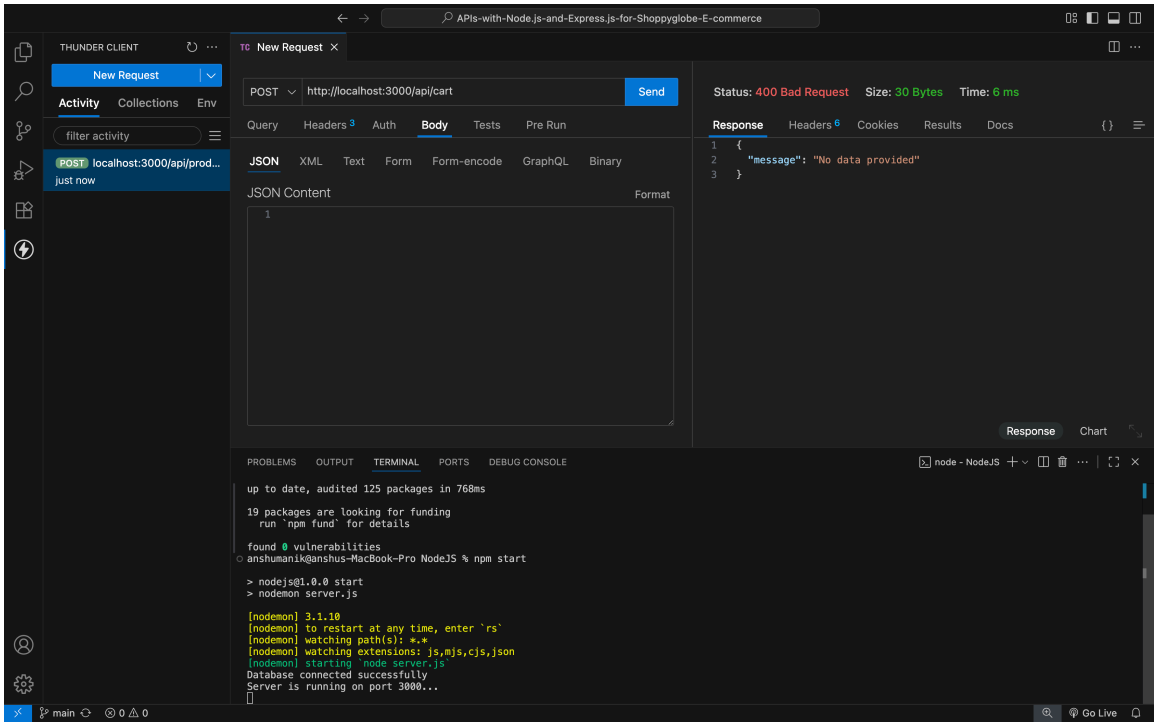
## 9. POST cart API to add item with user authentication and data in request body:



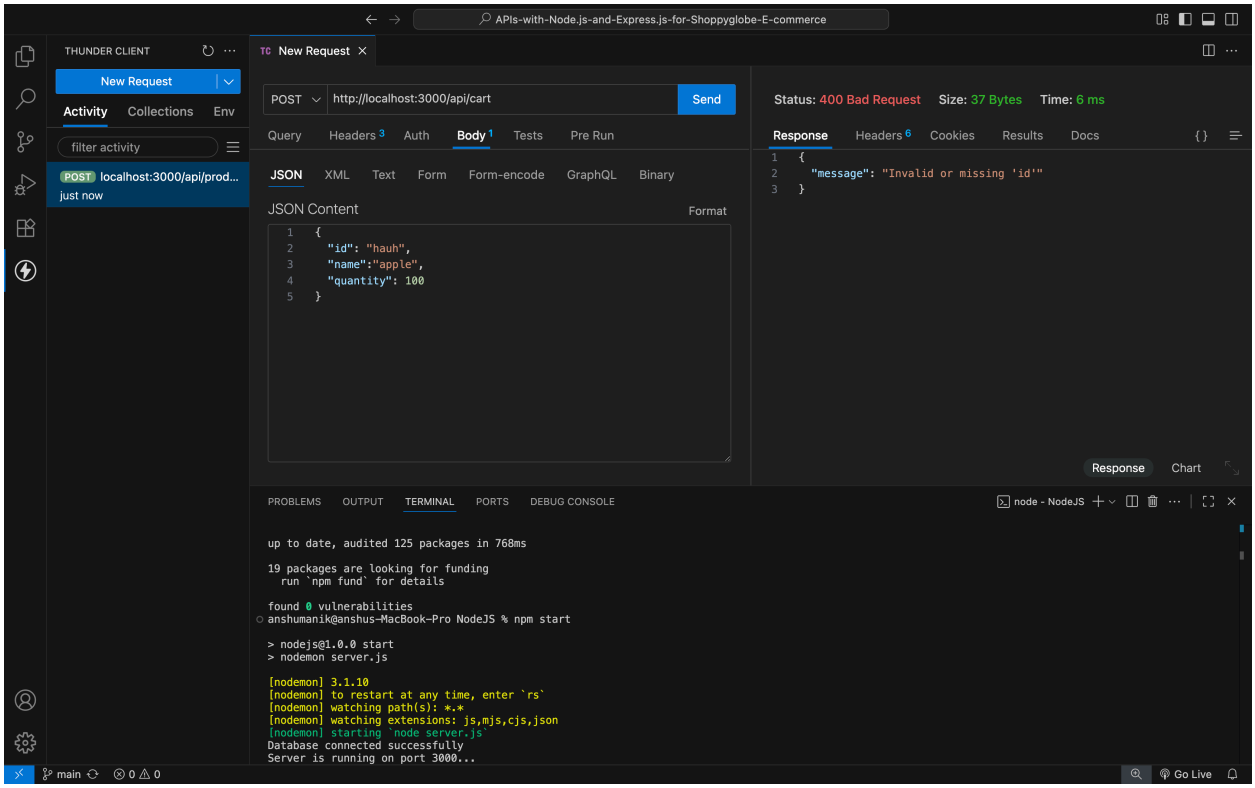





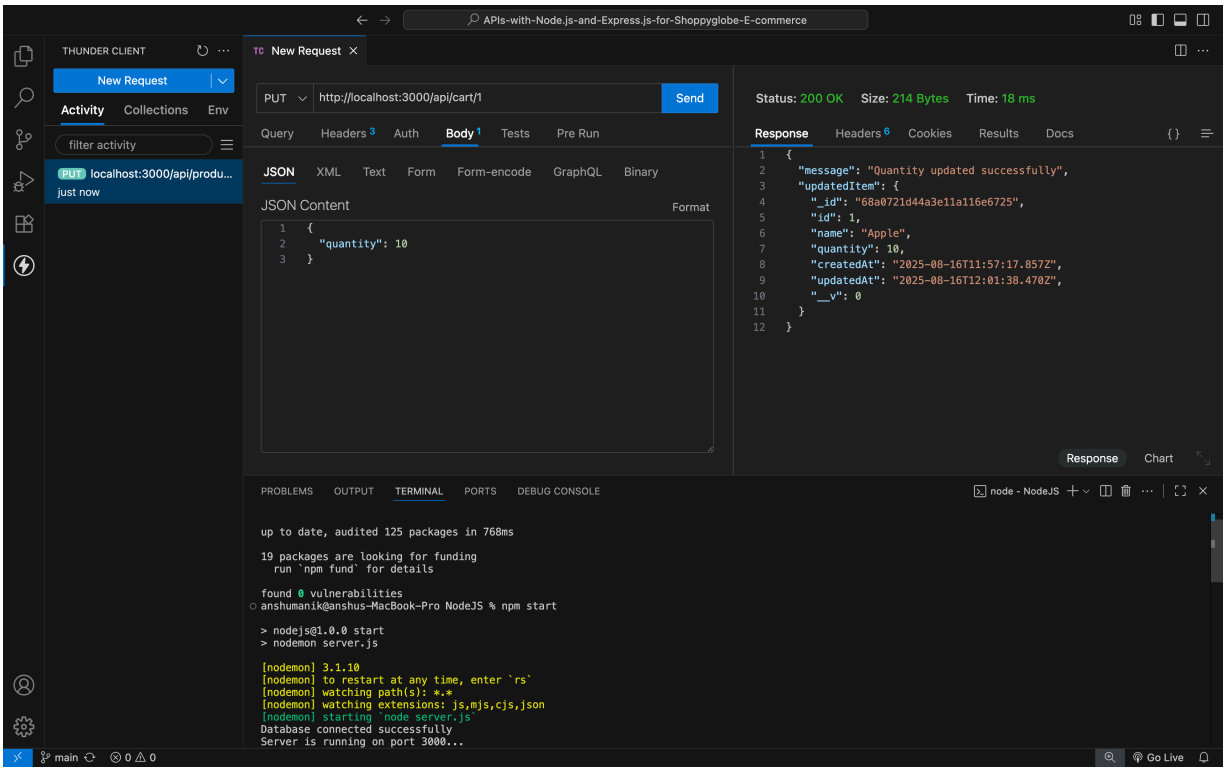

## 10. POST cart API to add item with user authentication and no data in request body:

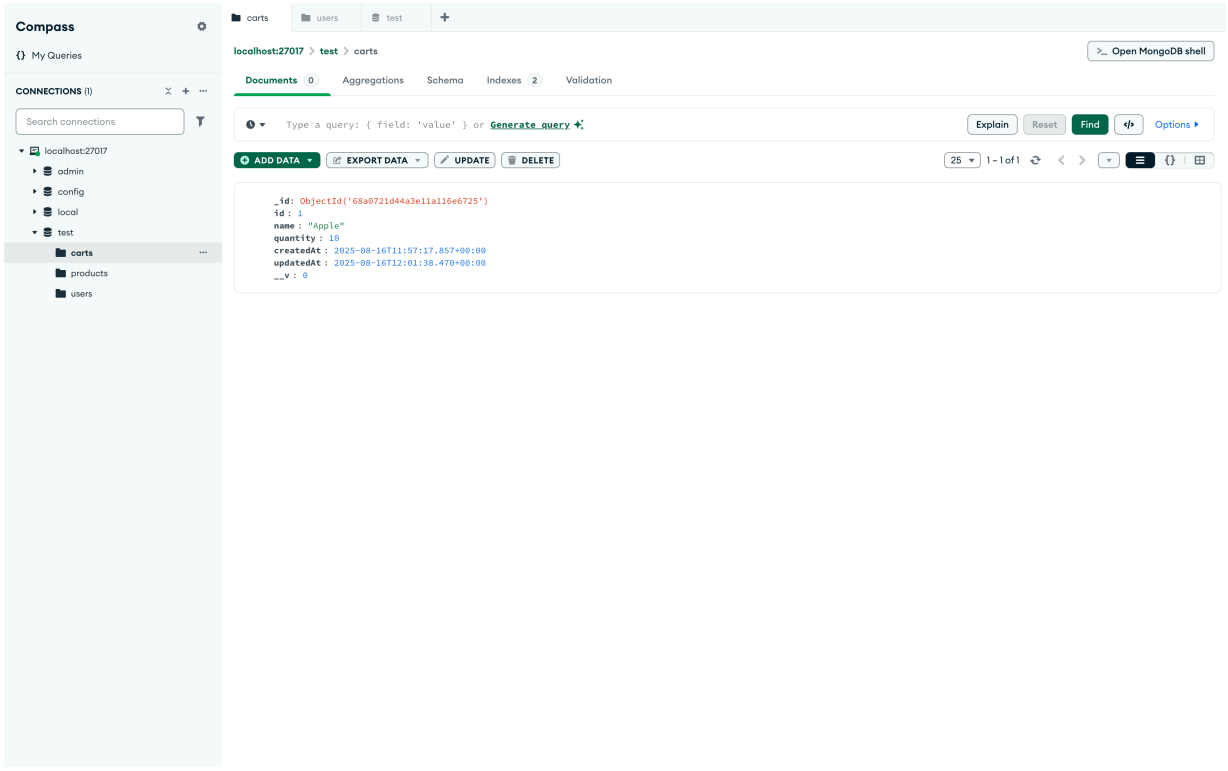


## 11. POST cart API to add item with user authentication and incorrect data in request body:

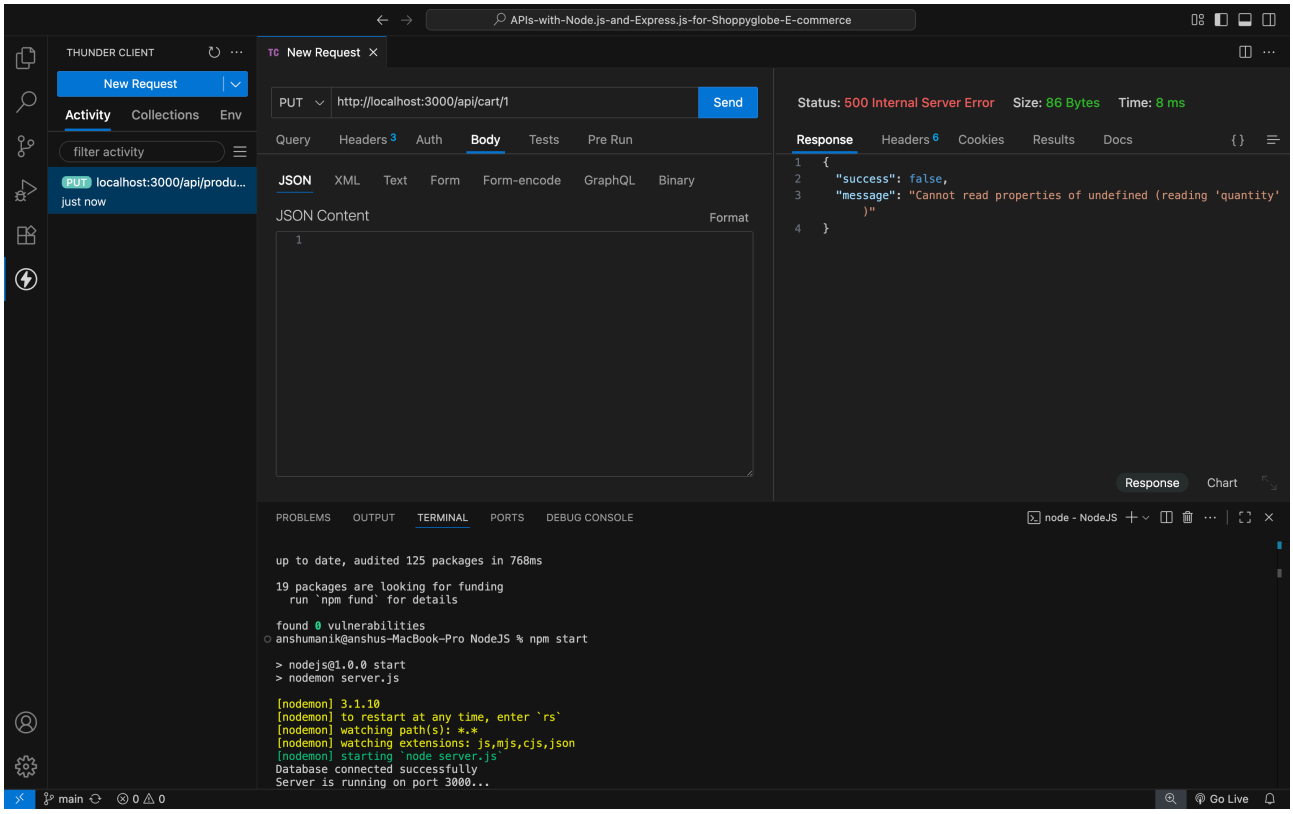



## 12. PUT cart API to update item with user authentication and quantity data in request body:

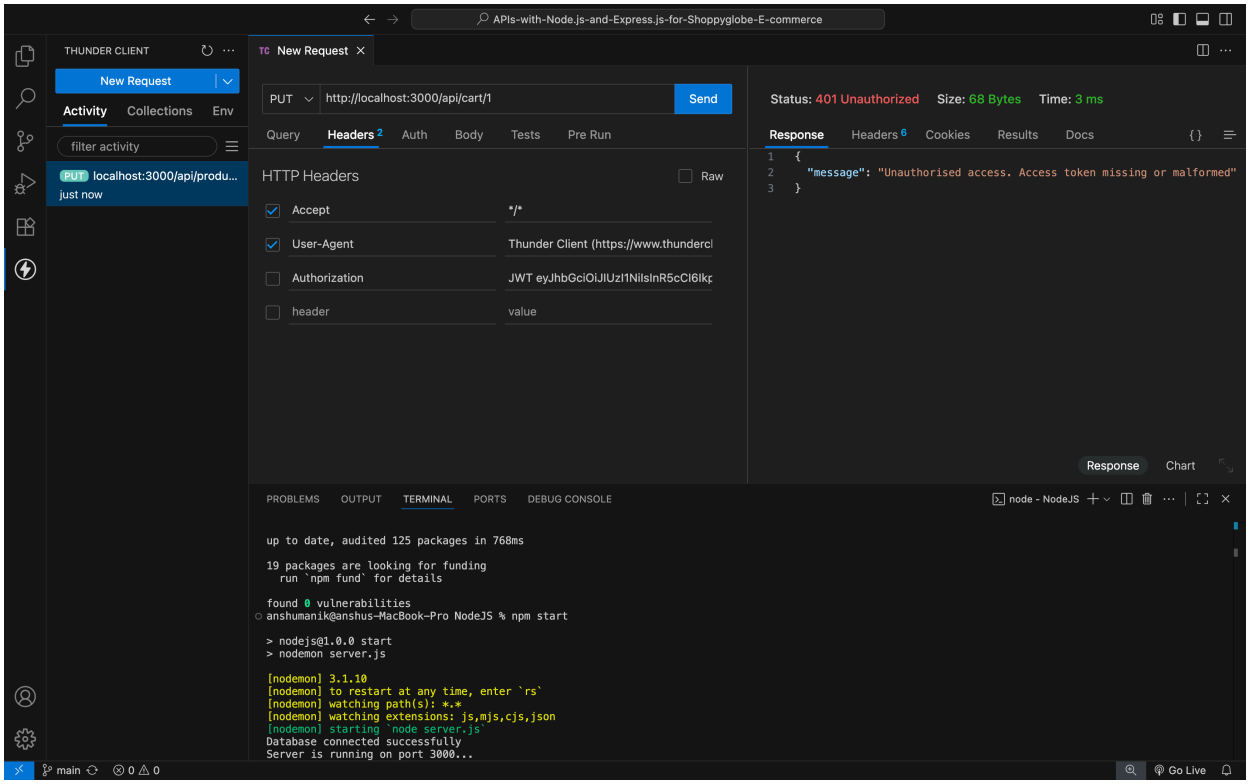




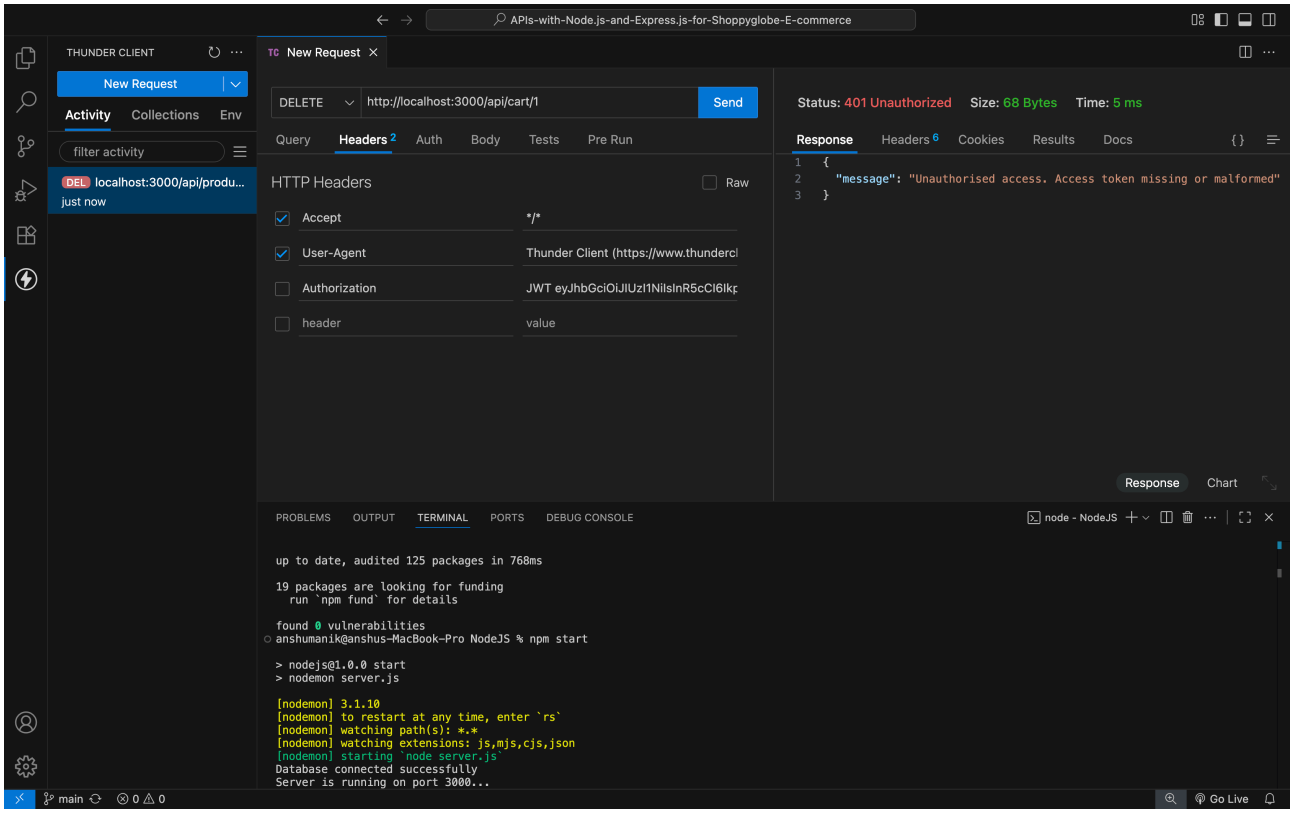

## 13. PUT cart API to update item with user auth and no data in request body:



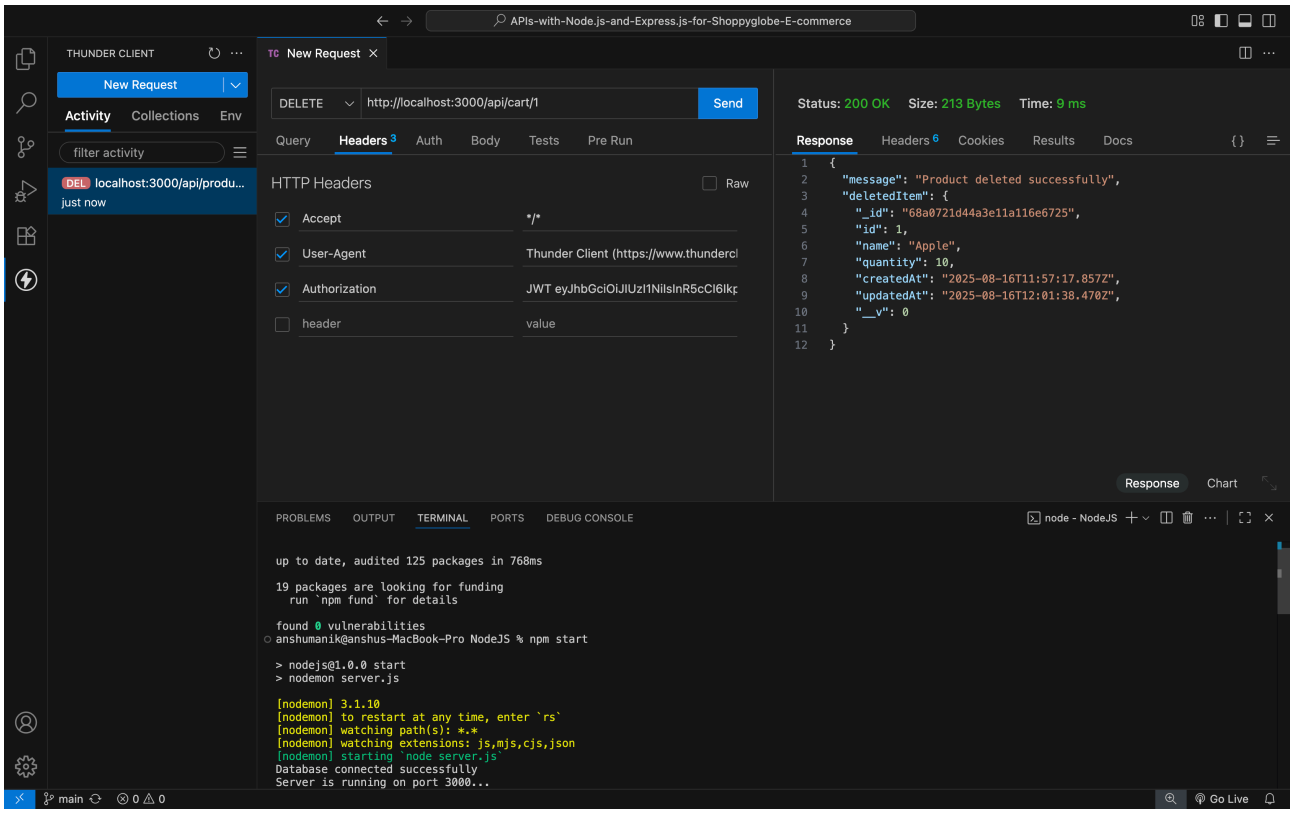
## 14. PUT cart API with no user authentication:

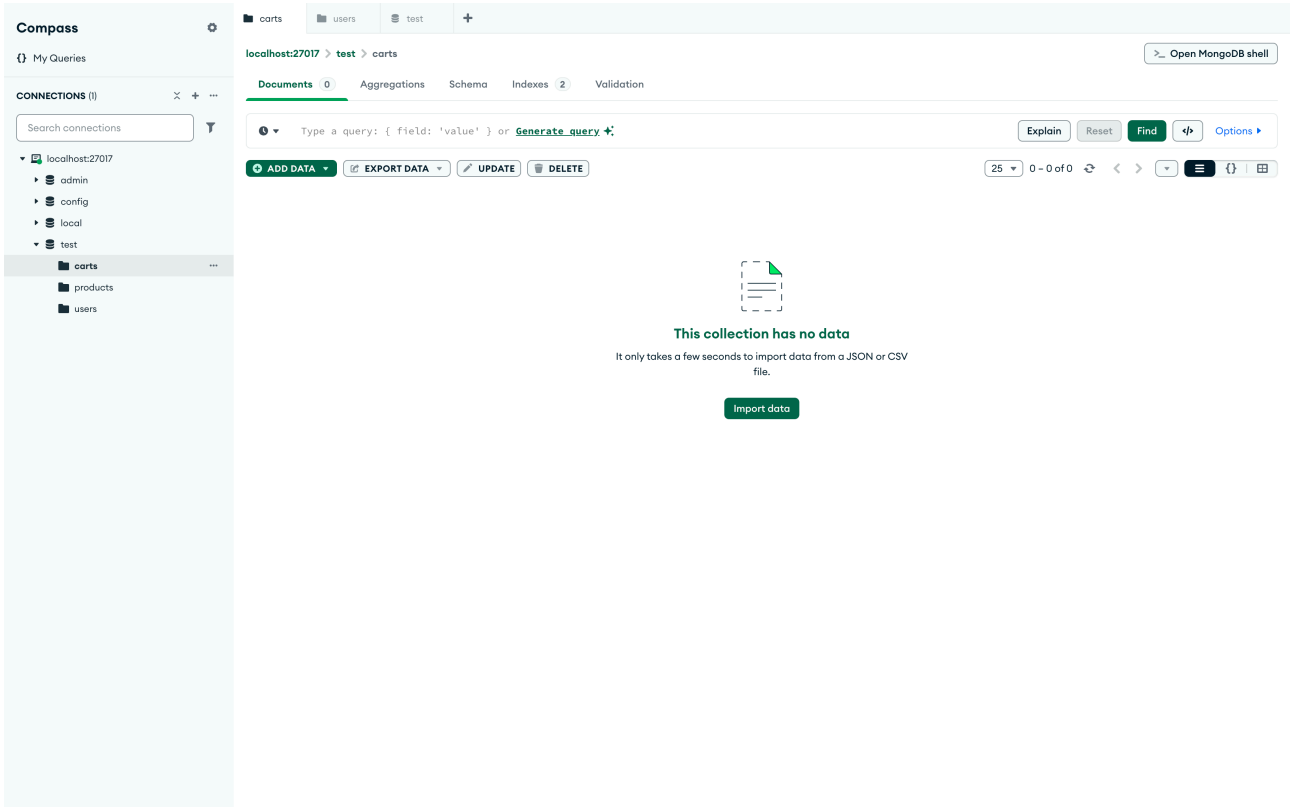



## 15. DELETE cart API to delete cart item using id without user auth:

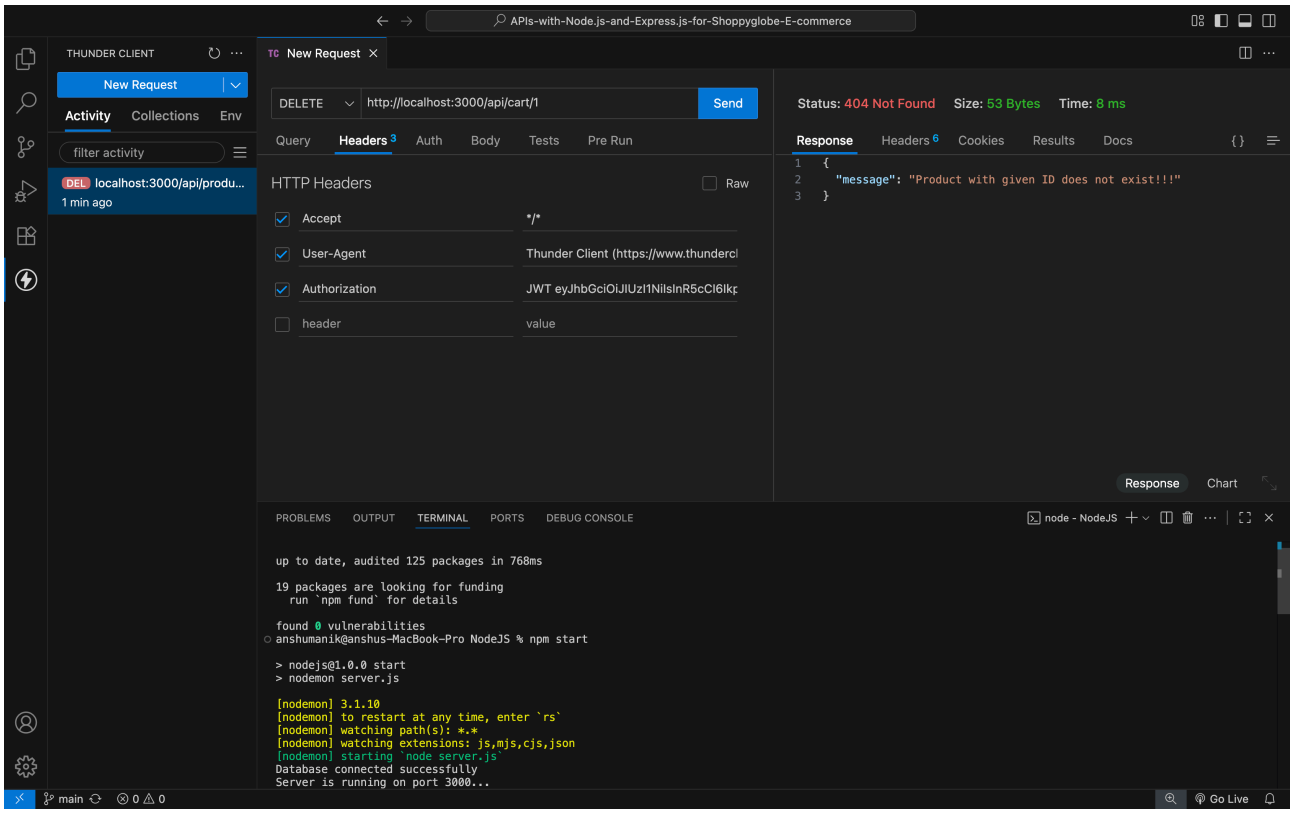


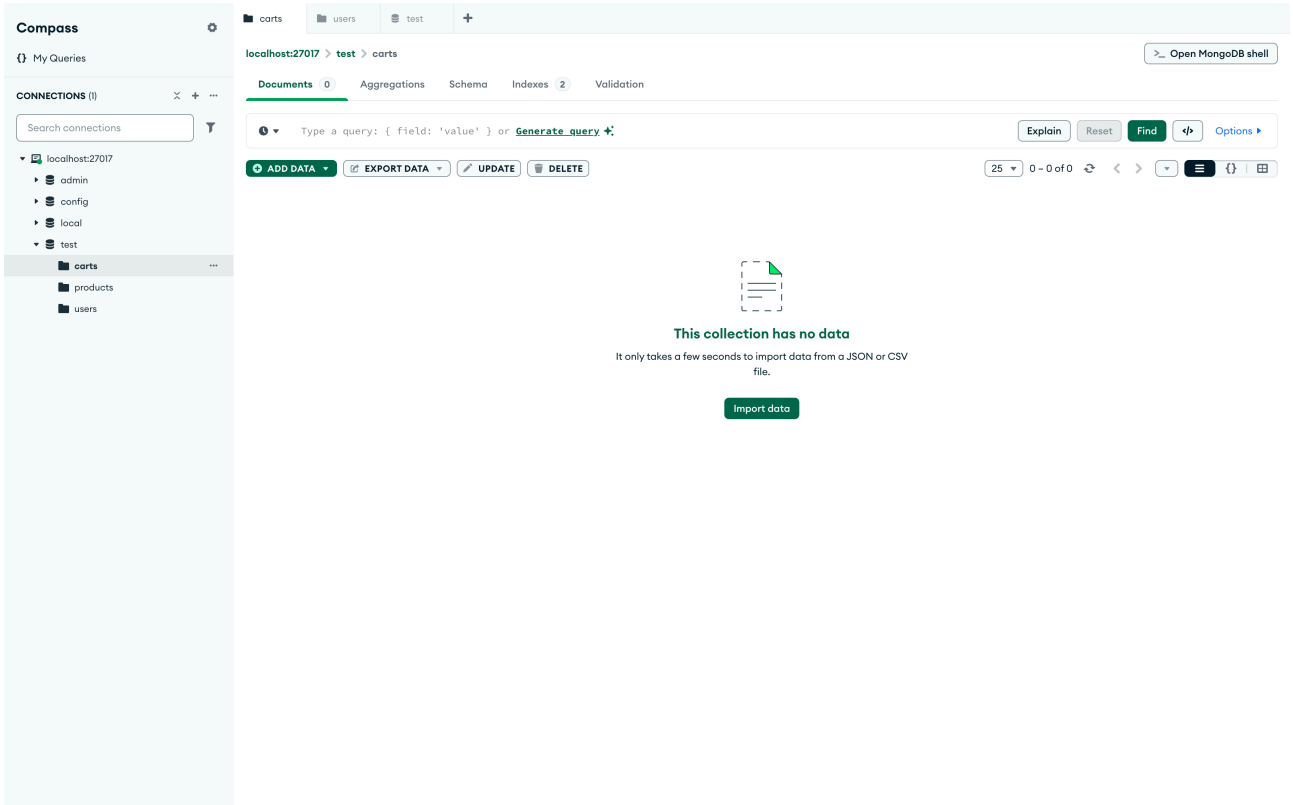
# 16. DELETE cart API to delete cart item using id with user auth:



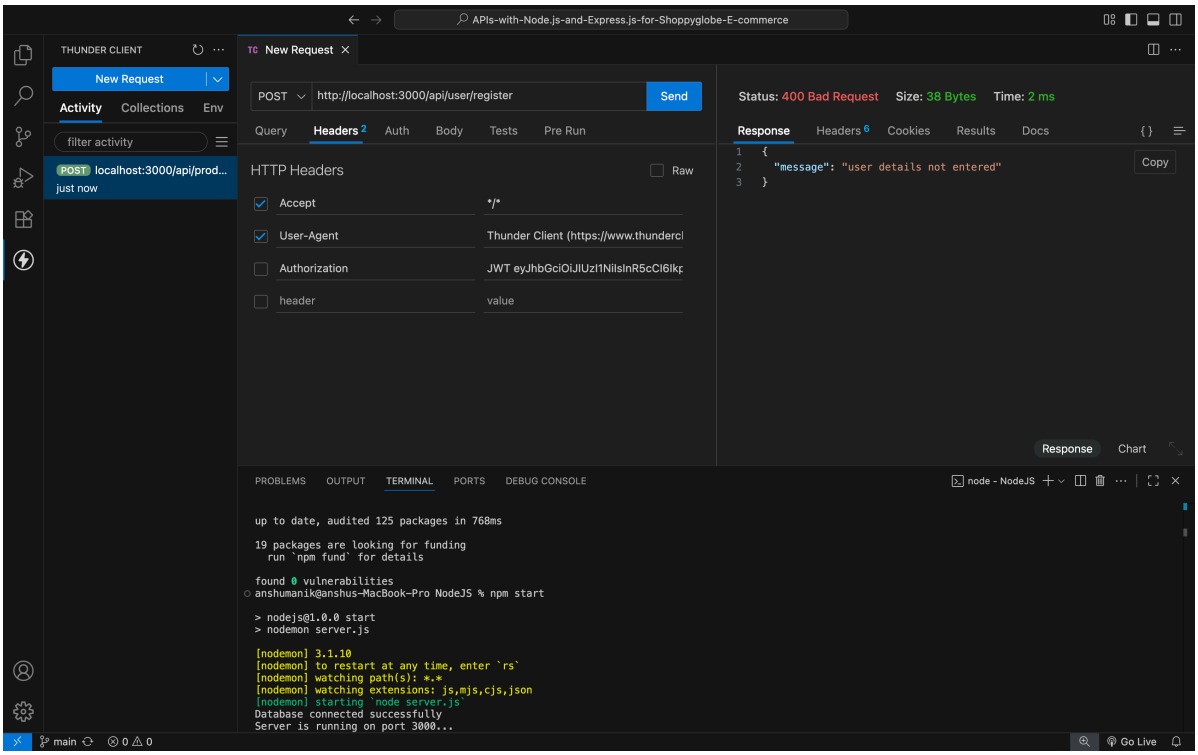



# 17. DELETE cart API to delete cart item which does not exist in db with user auth:

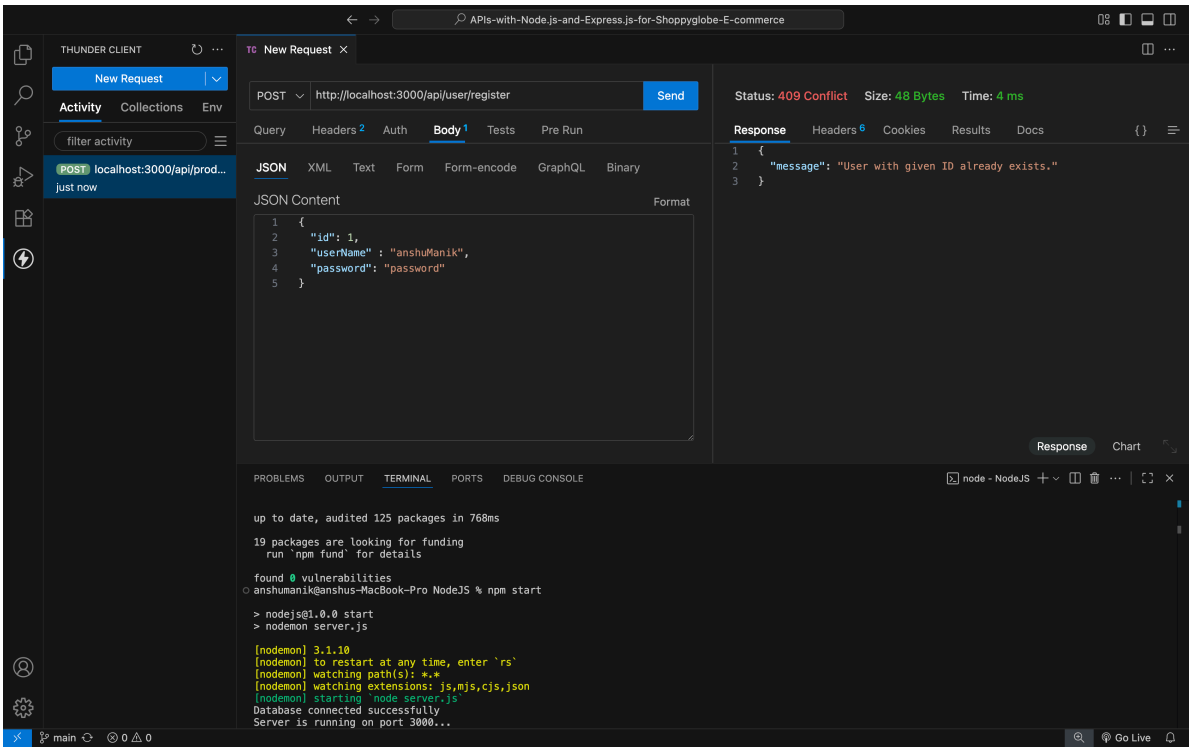


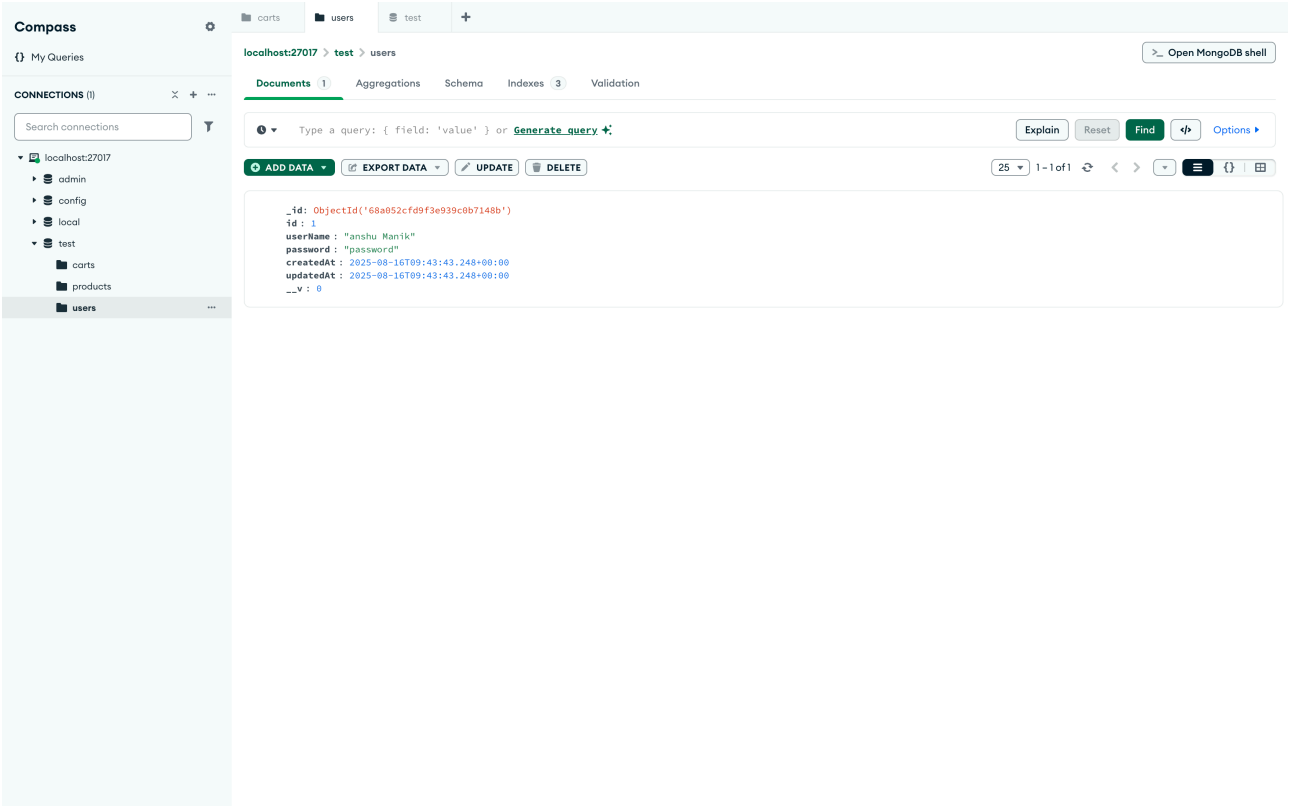



## 18. POST user API to register new user (no auth required) with no input data in body:

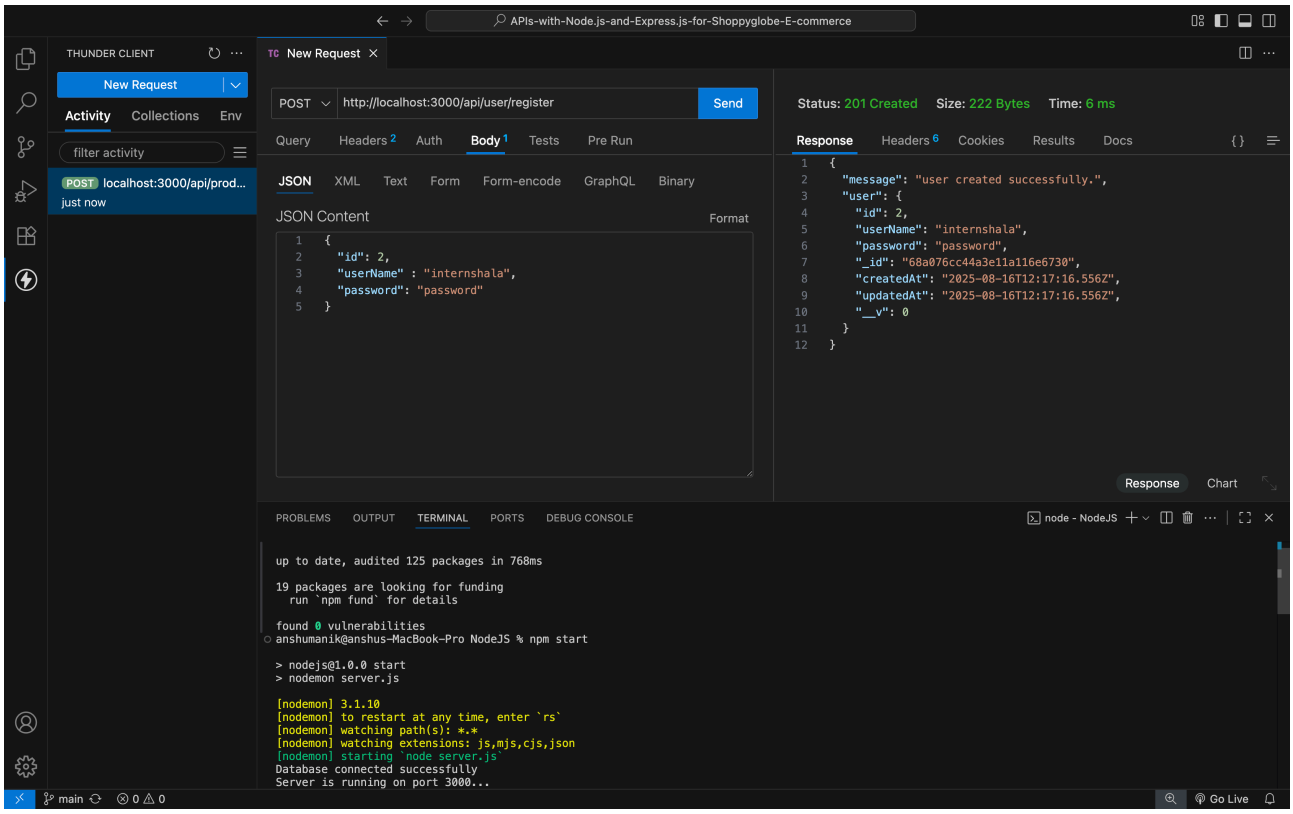


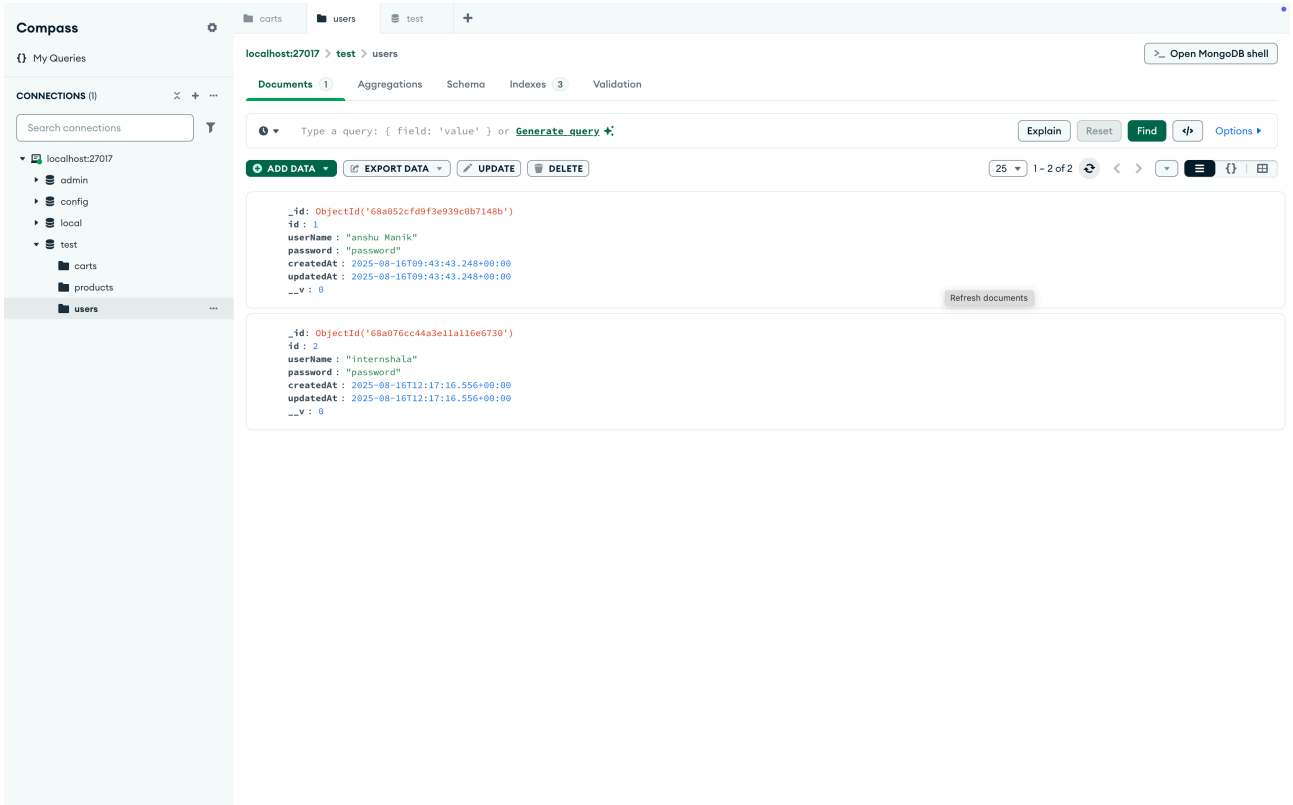
# 19. POST user API to register new user (no auth required to access api) with input data in body and userid already present in db:



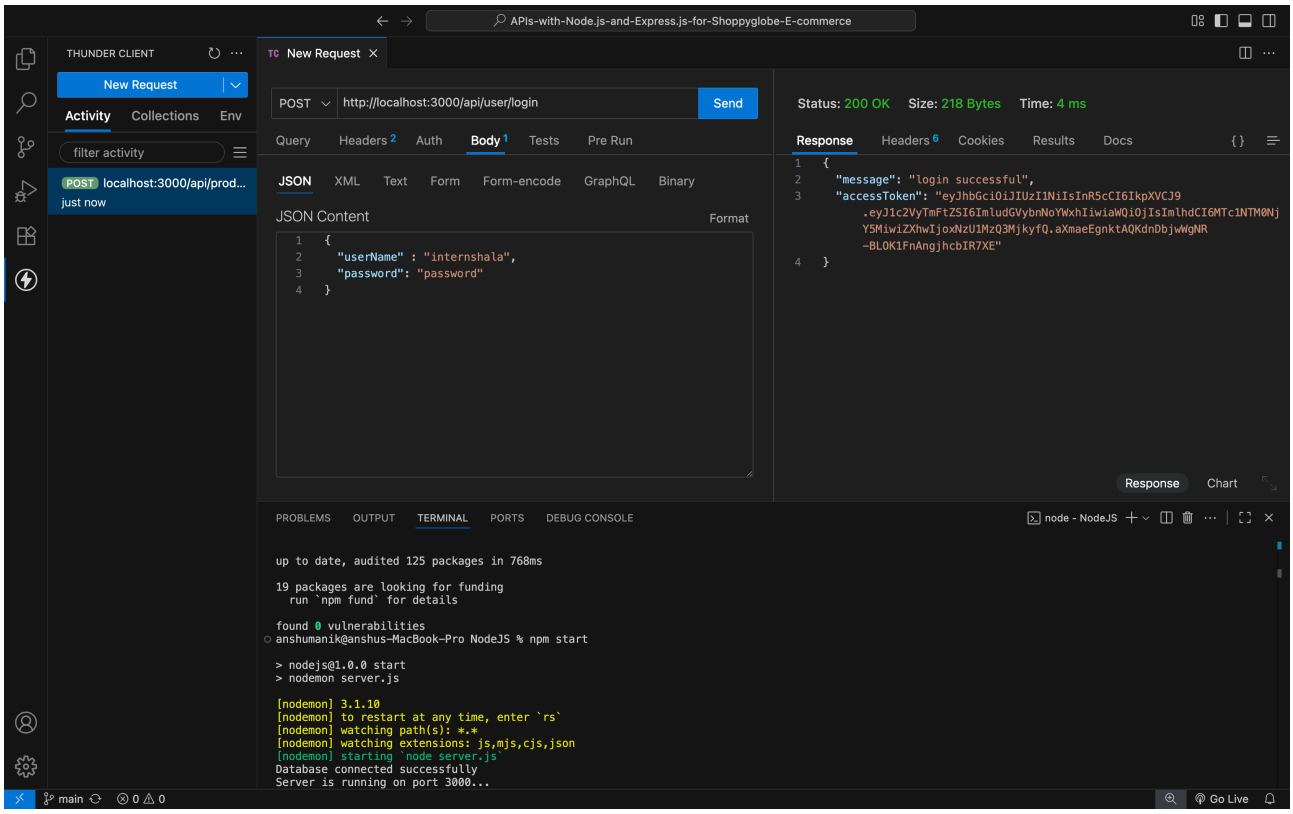



# 20. POST user API to register new user (no auth required to access api) with input data in body and userid not present in db:

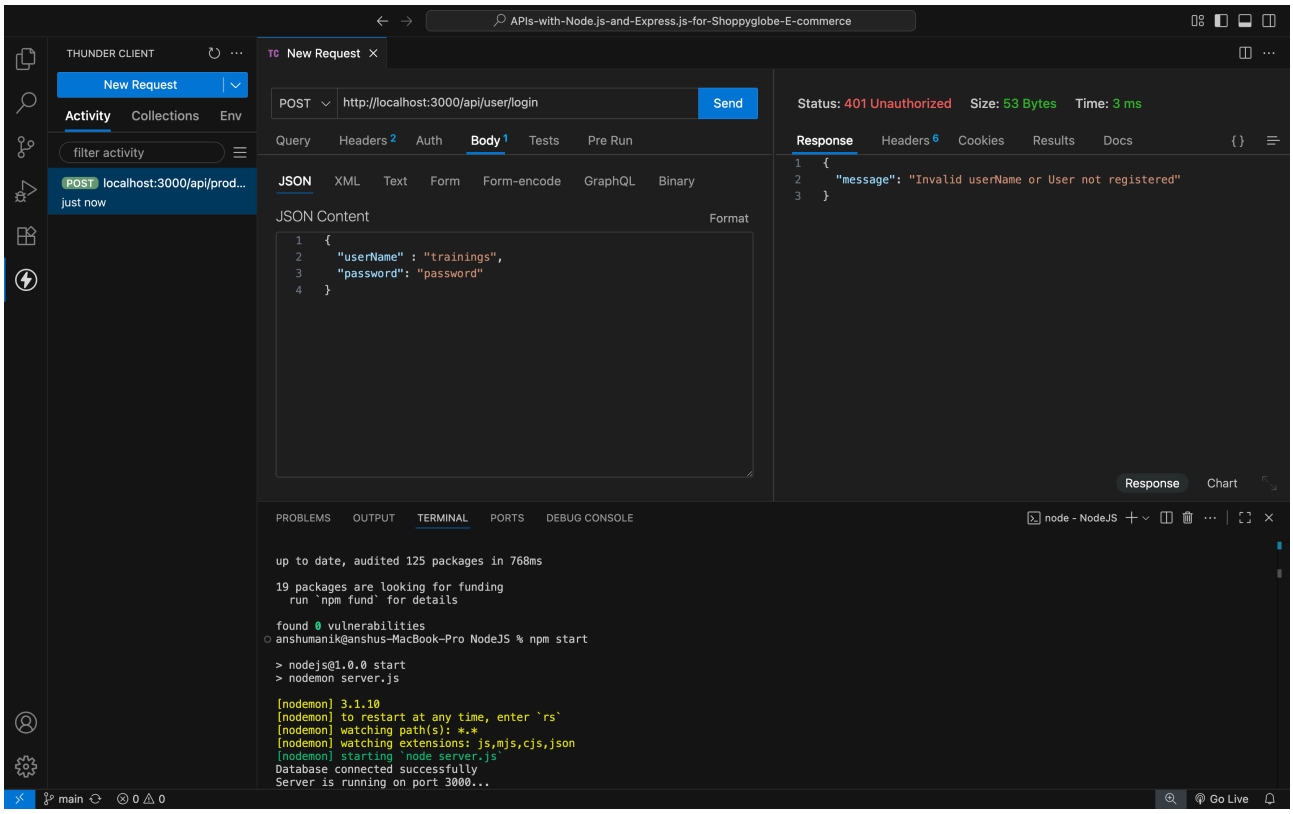


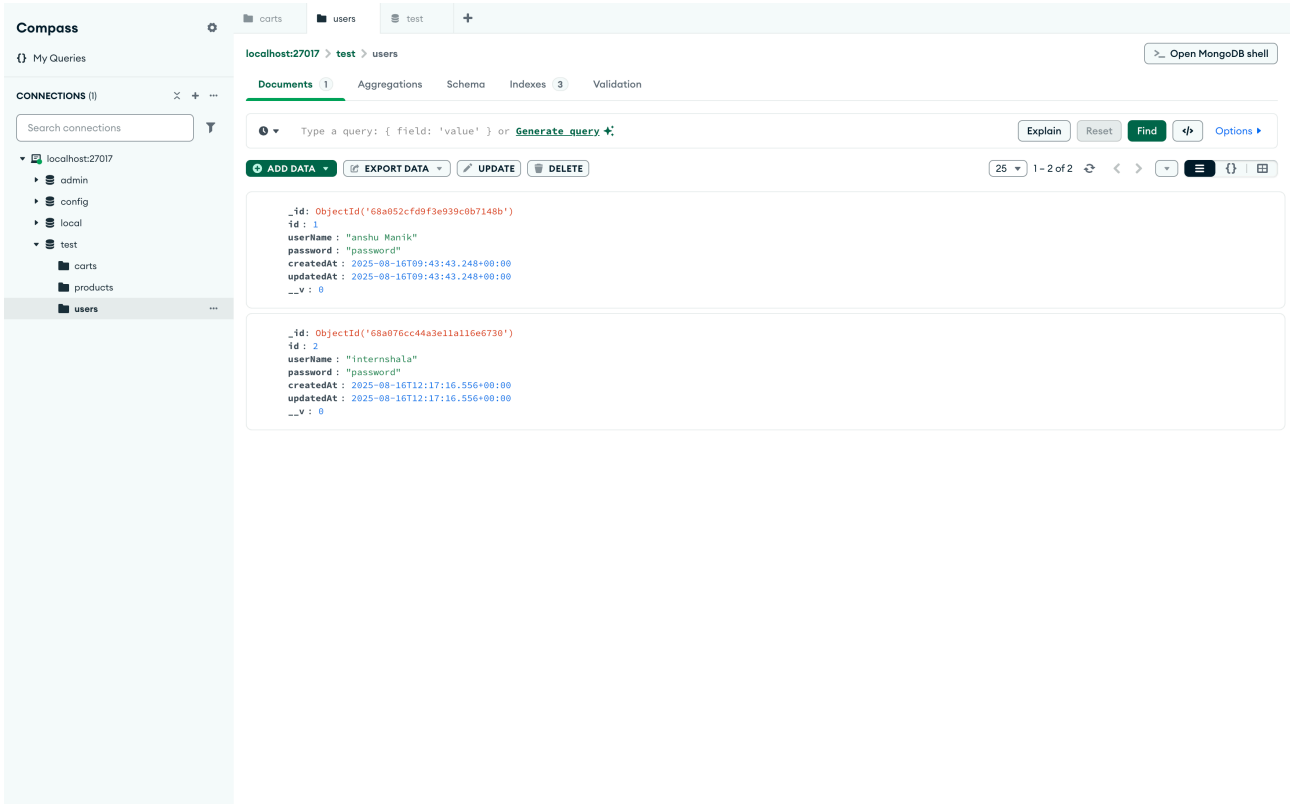



## 21. POST user API to login user (no auth required to access login api) with input data in body:

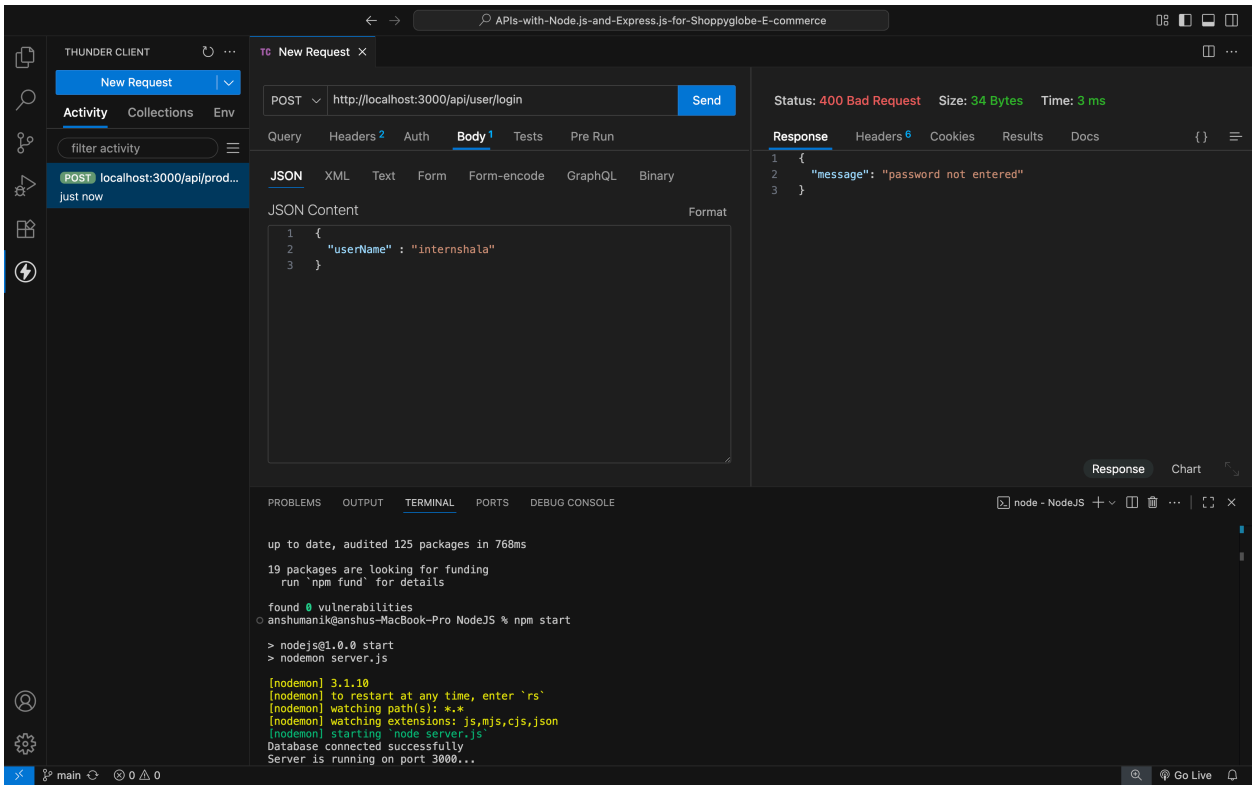


# 22. POST user API to login user (no auth required to access login api) with input data in body but user data not in db:

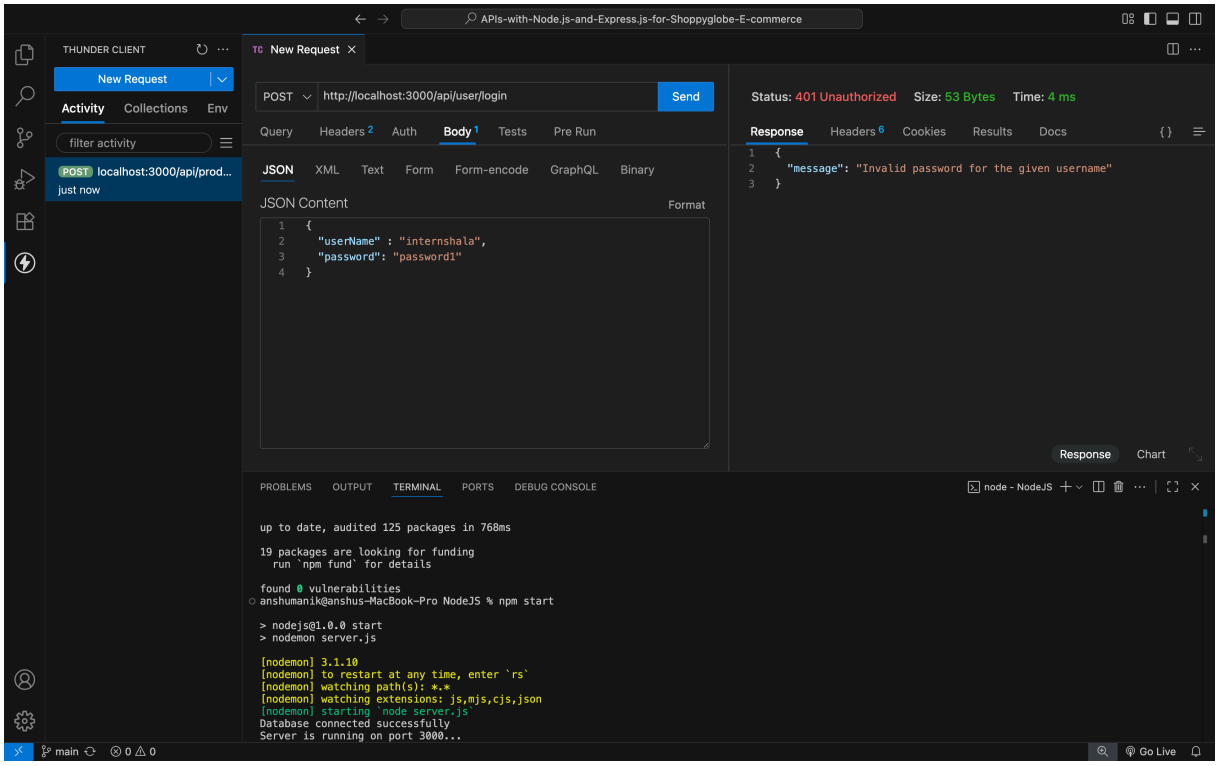


## 23. POST user API to login user (no auth required to access login api) with input data in body but user password not in provided:




## 24. POST user API to login user (no auth required to access login api) with input data in body but incorrect user password:



**Test result summary:**

1. **Protected cart routes, so only logged-in users can access them.**

2. **Implemented JWT-based authentication.**

3. **Implemented error handling for all API routes.**

4. **Validated input data (e.g., check if user ID exists before registering new user).**

5. **Implemented CRUD operations on MongoDB collections for products and cart items.**

6. **API runs without errors.**