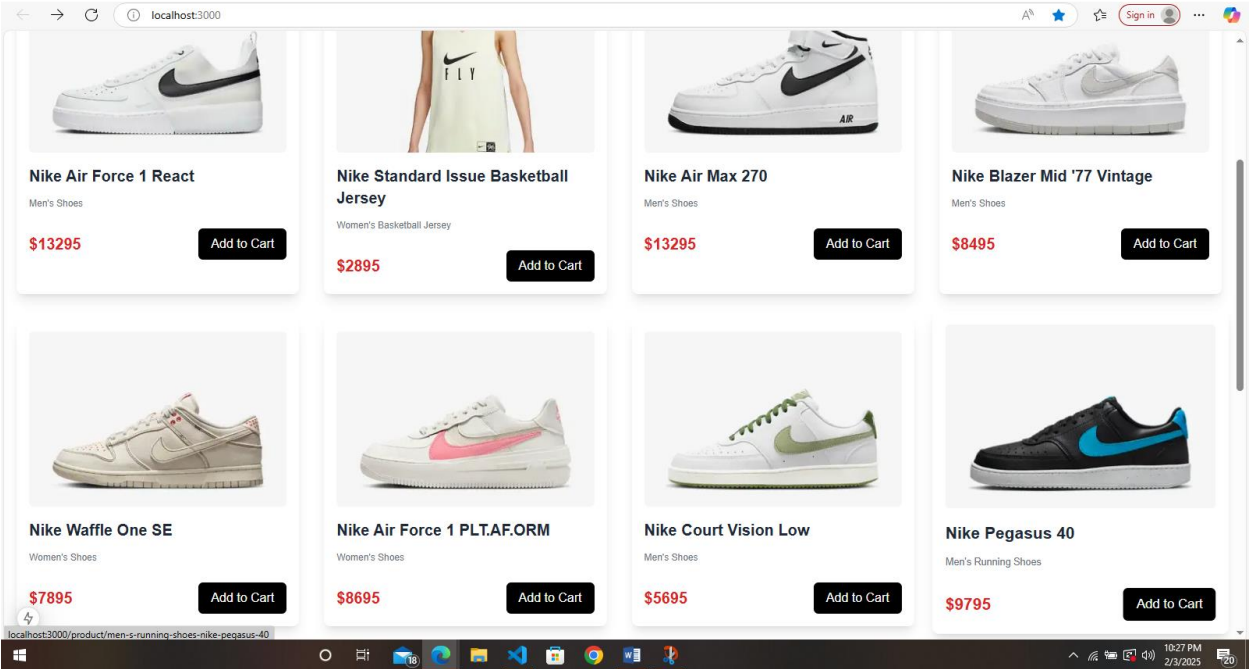


# Day 5 Testing Integration Refinement

Key Areas of Focus for E-Commerce Marketplace Nike:

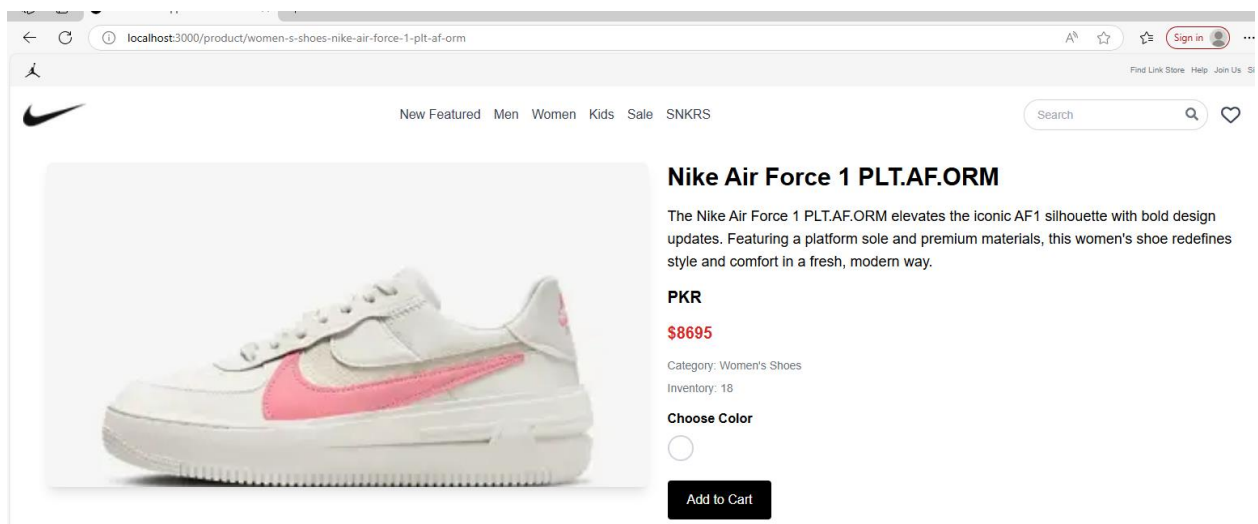
Step 1. Functional Testing:

- **Product Listing:** Successfully implemented dynamic product listing where products are fetched from the database and displayed in real-time.



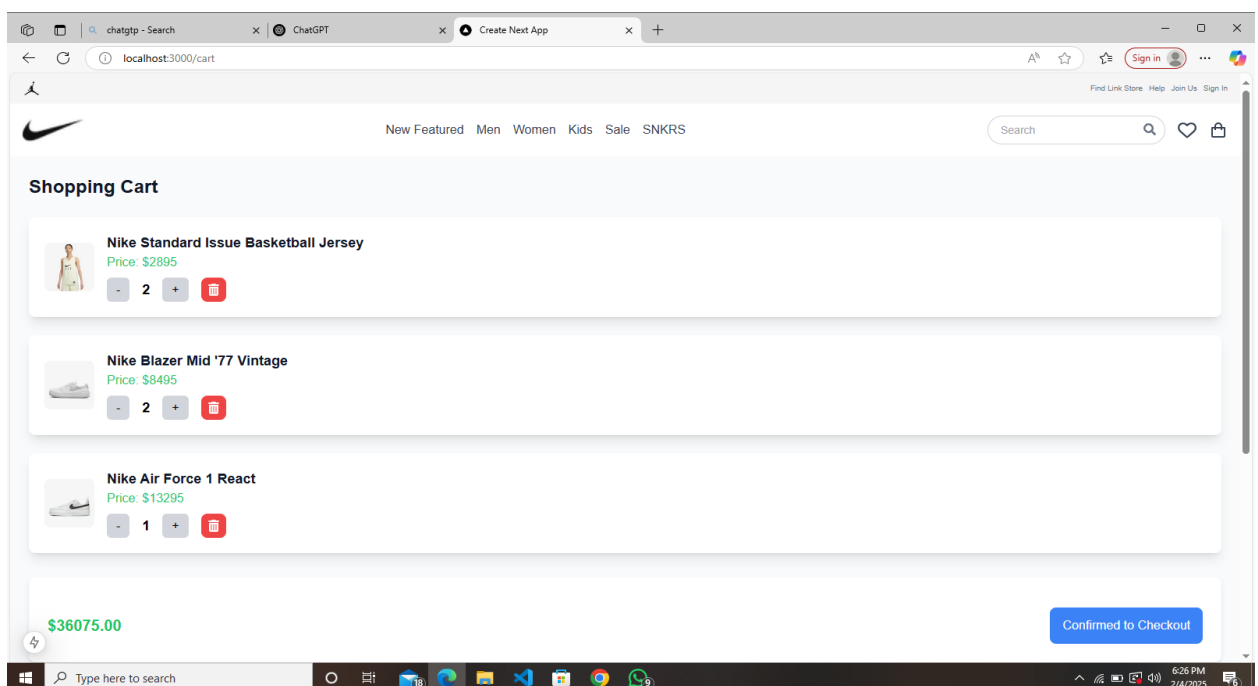
- Product Detail Page:

Dynamic product detail page functionality is working, showing detailed product information, images, price, and stock status.

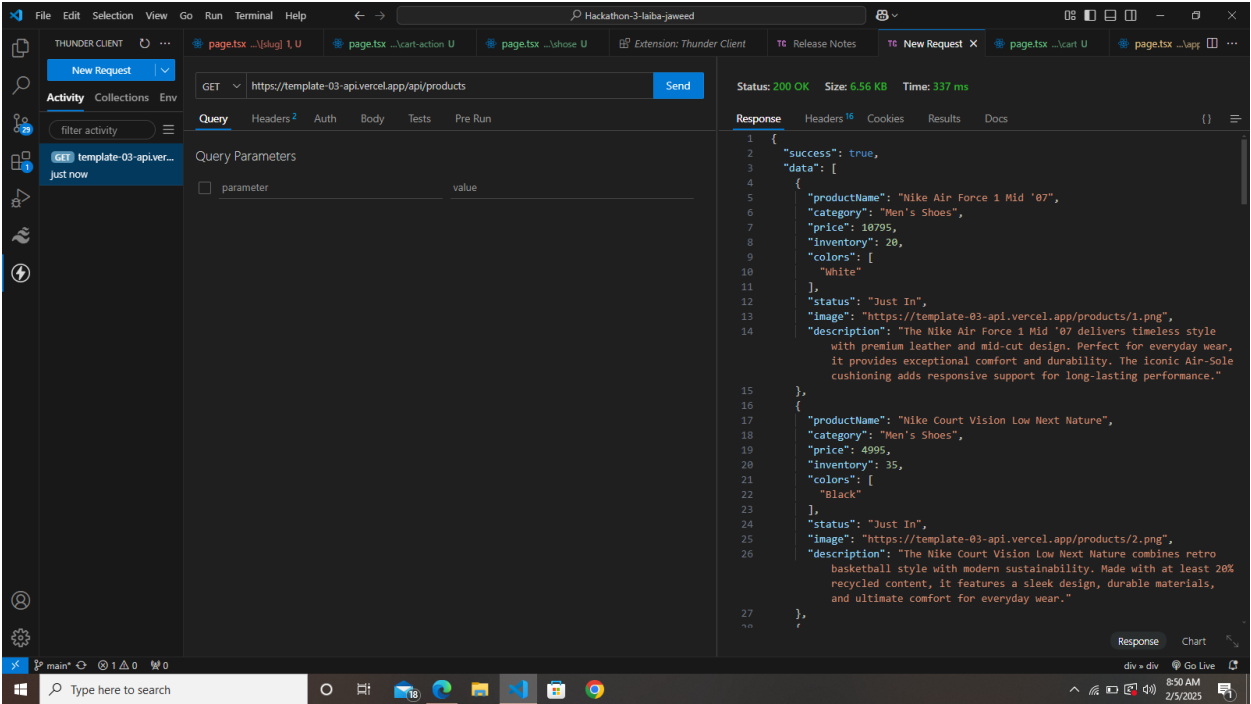


- Add to Cart:

The "Add to Cart" feature is fully functional, allowing users to add products to the cart and see the total cost.



# Testing Tools:

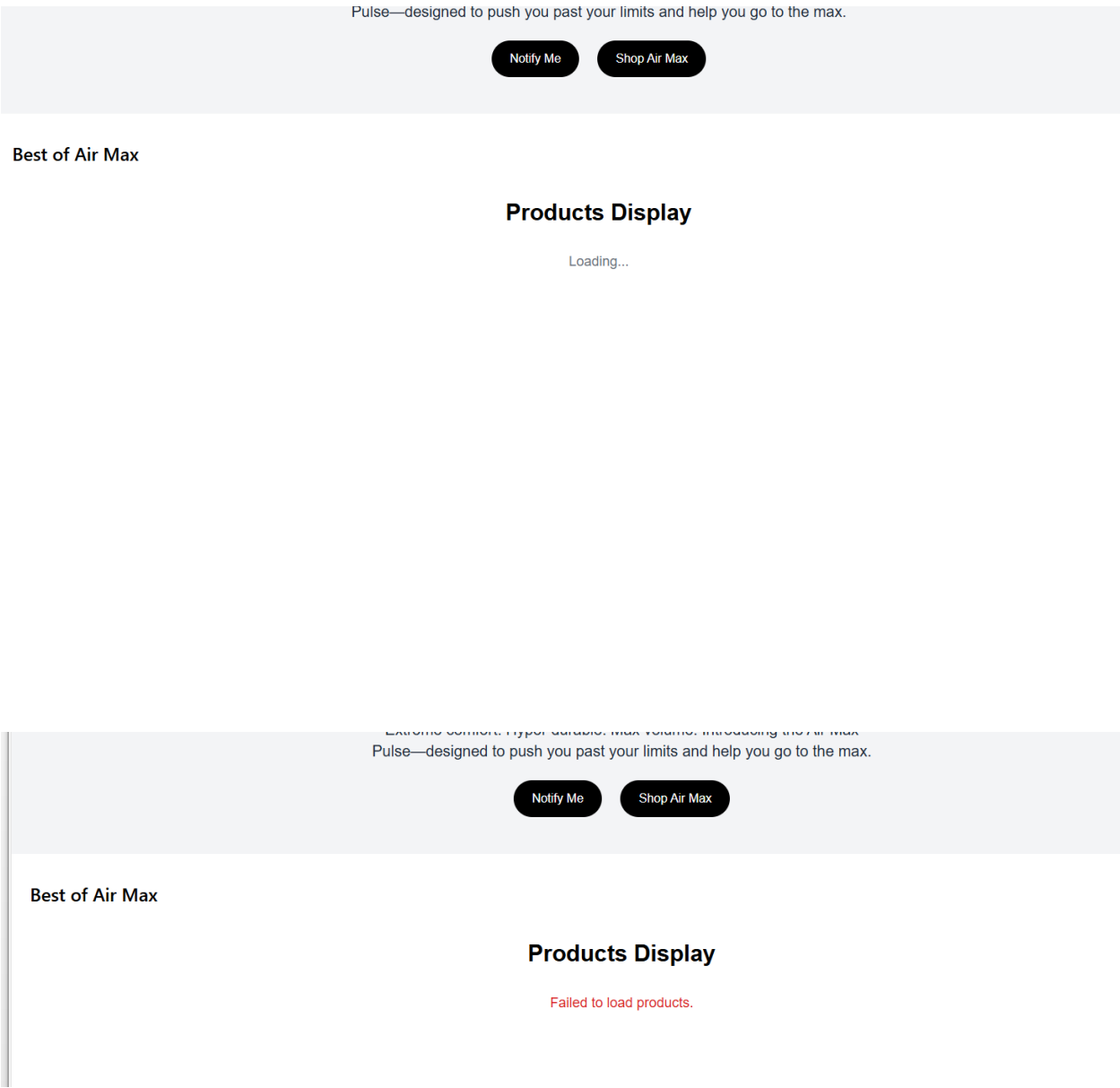


- **GET Request:** I sent a GET request to the API to fetch product data.
- **Status Code Check:** I checked the status code of the response to ensure it was 200 OK, meaning the API responded successfully and data was fetched correctly.
- **Response Body:** Verified the response body for correct product data (ID, Name, Price, etc.) to ensure that the API returned the expected results.

## 2. Error Handling

I implemented error handling in my E-commerce website to ensure a smooth user experience. When fetching products from the server, I used try-catch to manage potential errors like network issues or server problems.

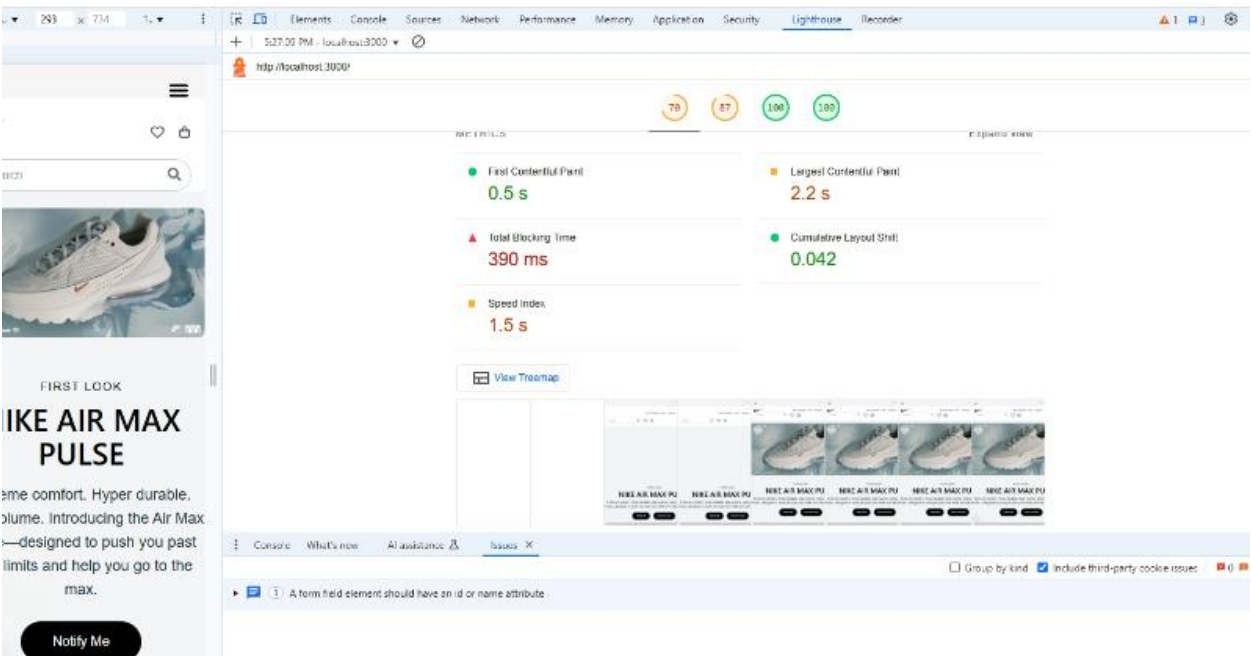
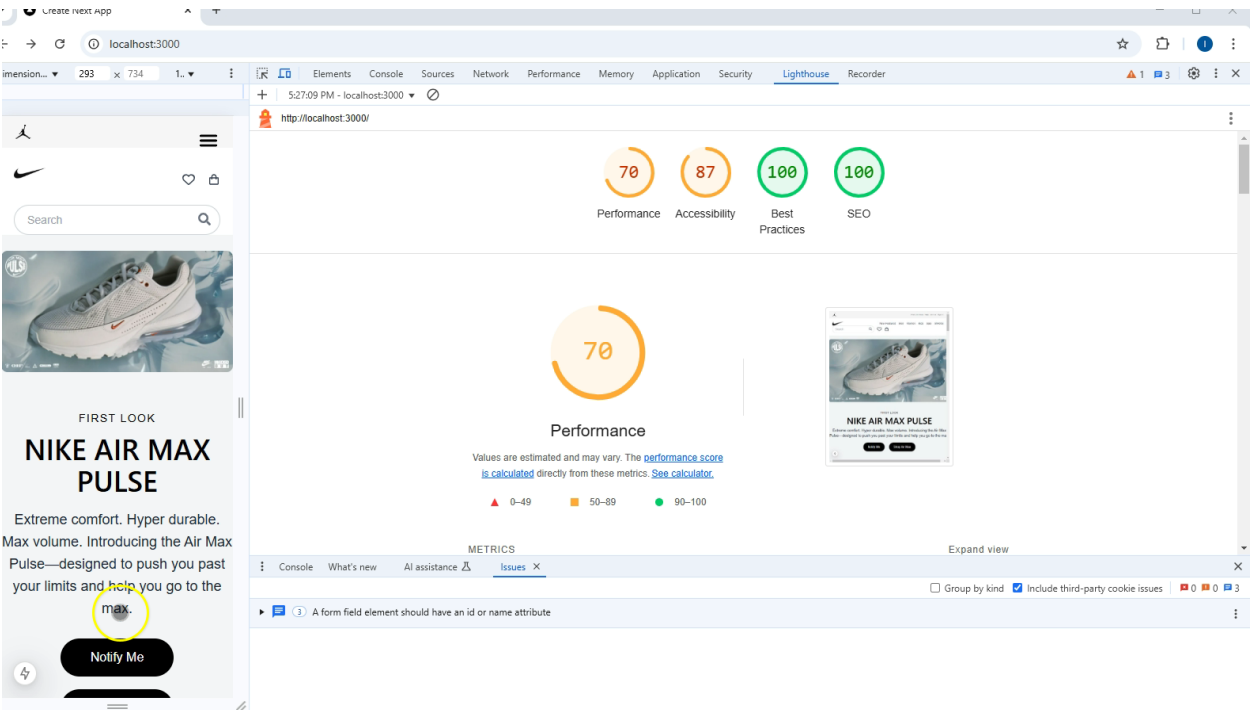
- **Fetching Data:** Products are fetched from the API using `client.fetch(query)`.
- **Error Handling:** If the fetch fails, an error message ("Failed to load products") is shown to the user, and the error is logged for debugging.
- **Loading State:** A loading state (`setLoading(true)`) is displayed while data is being fetched, and it's stopped (`setLoading(false)`) once the process is complete.



# 3. Performance Testing

## Website Performance Summary:

- Performance: 70 (Good, but could be improved for faster load times)
- SEO: 100 (Excellent, the website is fully optimized for search engines)
- Accessibility: 87 (Good, but can be improved for better accessibility)
- Best Practices: 100 (Perfect adherence to best practices)



2. Testing Report

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To Remarks
TC001	Product listing page	Open products page > Verify products	Products displayed correctly	Verified	Pass	High	No issues found
TC002	Product Detail page	Open product Detail page > Verify products	Products Detail displayed correctly	Verified Dynamic routing	Pass	High	No issues found
TC003	Add to Cart Functionaliy	Cart updates with added products	Seamless add / remove operation	Confirmd	Pass	High	Work as expected
TC004	Test API error handling	Disconnect API Refresh page	Show fallback UI error message	Error message show	Pass	High	Handled gracefully
TC005	Responsiveness Desktop or Mobile	Layout adjust properly to different screen sizes	Resize browser window check layout	Responsive Layout as working	Pass	High	Test successful

CSV Format:

Test Case ID, Test Case Description, Test Steps, Expected Result Actual Result, StatusSeverity Level, Assigned To Remarks,

TC001

Product listing page Open products page > Verify products Products displayed correctlyVerified Pass High No issues found

TC002 Product Detail page Open product Detail page > Verify products Products Detail displayed correctly Verified Dynamic routing Pass High No issues found

TC003 Add to Cart Functionality Cart updates with added products Seamless add / remove operation Confirmed Pass High Work as expected

TC004 Test API error handling   Disconnect API Refresh page   Show fallback UI  
error message   Error message show   Pass   High   Handled gracefully

TC005 Responsiveness Desktop or Mobile   Layout adjust properly to different  
screen sizes Resize browser window check layout   Responsive Layout as working  
Pass   High   Test successful

Author: Laiba Jaweed

Slot: Saturday 2 to 5

Task Given by Sir Ameen Alam

Class Teacher: Sir Muhammad Bilal & Sir Ali Aftab Sheikh