#### Day 4 Recap:

Day 4 was dedicated to laying the foundation for the marketplace's dynamic functionality. Students focused on:

- 1. Designing and developing core front-end components such as product listings, filters, and search functionality.
- 2. Integrating basic API responses to display dynamic data.
- 3. Creating reusable and modular components for scalability.
- 4. Ensuring components are responsive and accessible across devices and browsers.
- 5. Writing technical documentation to summarize the work completed.

By the end of Day 4, I had a partially dynamic frontend with well-structured components, preparing them for the deeper integrations and testing on Day 5.

# Day 5 - Testing, Error Handling, and Backend Integration Refinement

### Objective:

Day 5 focuses on preparing your marketplace for real-world deployment by ensuring all components are thoroughly tested, optimized for performance, and ready to handle customer-facing traic. The emphasis will be on testing backend integrations, implementing error handling, and refining the user experience.

### **Key Learning Outcomes:**

- 1. Perform comprehensive testing, including functional, non-functional, user acceptance, and security testing.
- 2. Implement robust error handling mechanisms with clear, user-friendly fallback messages.
- 3. Optimize the marketplace for speed, responsiveness, and performance metrics.
- 4. Ensure cross-browser compatibility and device responsiveness for a seamless user experience.
- 5. Develop and submit professional testing documentation that meets industry standards, including a CSV-based test report.
- 6. Handle API errors gracefully with fallback UI elements and logs.
- 7. Optimize the marketplace for speed and responsiveness.

# DAY 5 - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

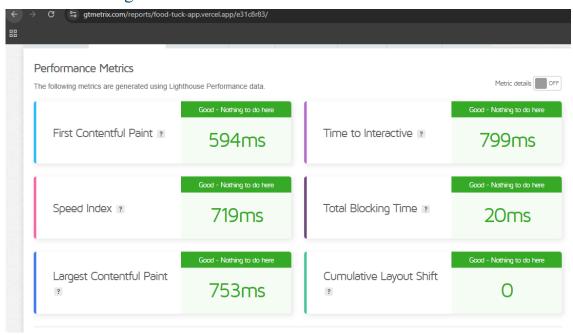
- 8. Ensure cross-browser and device compatibility.
- 9. Prepare detailed documentation for testing results and resolutions.

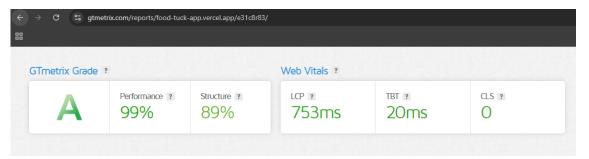
#### Key Areas of Focus:

#### 1. Functional Testing

- Validate that all marketplace features work as intended.
- Test core functionalities like product listing, detail pages, cart operations and Checkout.

#### 3. Performance Testing





#### 5. Security Testing

- Validate input fields to prevent injection attacks.
- Use HTTPS for secure communication.
- Avoid exposing sensitive API keys in your frontend code.

# DAY 5 - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

## 6. User Acceptance Testing (UAT)

- Simulate real-world scenarios by interacting with your marketplace as a user.
- Verify that workflows like browsing, searching, and checkout are intuitive and error-free.