Day 5 - Testing and Backend Refinement – Furniro E-commerce

1. Functional Deliverables
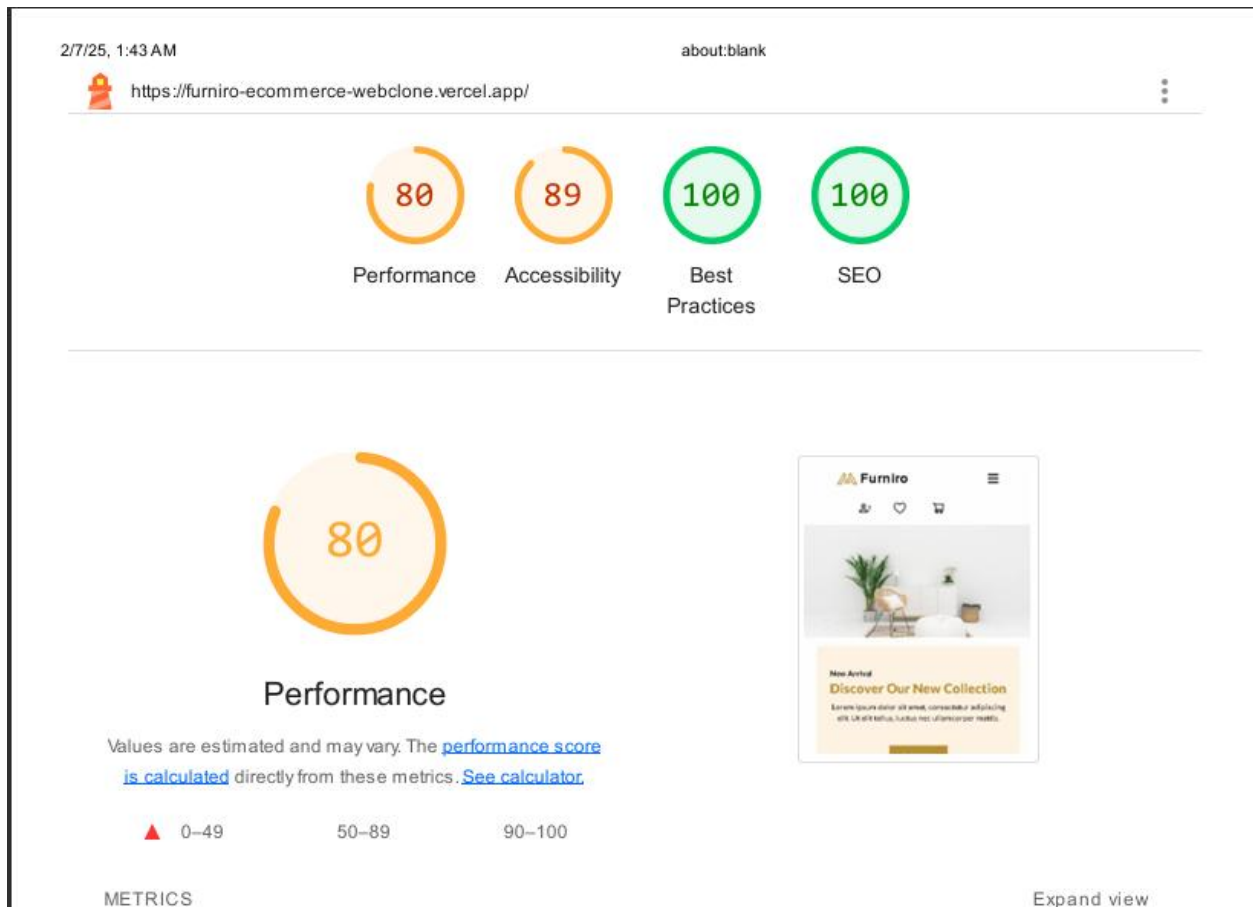
Video Demonstration:

Video Link: https://drive.google.com/file/d/1KjPIB6jXtSxrW5dZO-z8dJ3Di9nWbqsp/view?usp=sharing

Screenshots

1. **Lighthouse Performance Report:**

Mobile View:

Desktop View:

https://furniro-ecommerce-webclone.vercel.app/

99   90   100   100

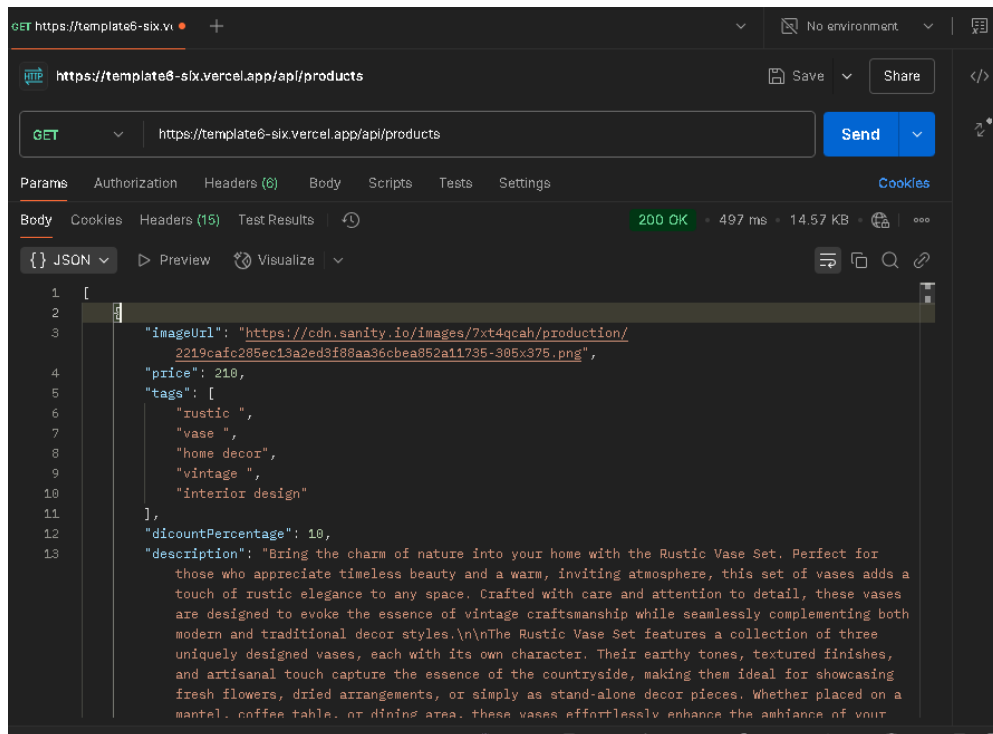**99** Performance   **90** Accessibility   **100** Best Practices   **100** SEO

99

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

2. Postman API Testing:

GET https://template6-six.v...

https://template6-six.vercel.app/api/products

Save   Share

GET   https://template6-six.vercel.app/api/products   Send

Params   Authorization   Headers (6)   Body   Scripts   Tests   Settings   Cookies

Body   Cookies   Headers (15)   Test Results   200 OK · 497 ms · 14.57 KB

{ } JSON   Preview   Visualize

```
1   [
2       {
3           "imageUrl": "https://cdn.sanity.io/images/7xt4qcah/production/
                2219cafc285ec13a2ed3f88aa36cbea852a11735-305x375.png",
4           "price": 210,
5           "tags": [
6               "rustic ",
7               "vase ",
8               "home decor",
9               "vintage ",
10              "interior design"
11          ],
12          "dicountPercentage": 10,
13          "description": "Bring the charm of nature into your home with the Rustic Vase Set. Perfect for
                those who appreciate timeless beauty and a warm, inviting atmosphere, this set of vases adds a
                touch of rustic elegance to any space. Crafted with care and attention to detail, these vases
                are designed to evoke the essence of vintage craftsmanship while seamlessly complementing both
                modern and traditional decor styles.\n\nThe Rustic Vase Set features a collection of three
                uniquely designed vases, each with its own character. Their earthy tones, textured finishes,
                and artisanal touch capture the essence of the countryside, making them ideal for showcasing
                fresh flowers, dried arrangements, or simply as stand-alone decor pieces. Whether placed on a
                mantel, coffee table, or dining area, these vases effortlessly enhance the ambiance of your
```

2. Testing Report:

Summary of Test Cases Executed:

- **Total Test Cases: 6**
- **Passed: 6**
- **Failed: 0**
- **Pending Resolution: 0**

Link to Detailed Report:

Test Case Report Link: https://github.com/codewithrasheed/Furniro-Ecommerce/blob/main/Documentation/Day%205/Furniro_Test_Cases.csv

Performance Testing Report: https://github.com/codewithrasheed/Furniro-Ecommerce/blob/main/Documentation/Day%205/Lighthouse%20Performance%20Testing%20Desktop%20View%20Report.pdf

3. Documentation:

Optimizations Implemented:

1. **Performance Enhancements:**
   - Optimized images to reduce page load time.
   - Removed unused code and dependencies to enhance performance.
2. **Security Measures:**
   - Implemented input validation to prevent injection attacks.
   - Ensured secure storage of API keys and secrets, preventing exposure in the codebase.

4. Challenges and Resolutions:

Challenges Faced:

1. Data Handling
   - Faced difficulties in filtering and managing complex product data during search and filtering operations.
2. Functionality Implementation
   - Encountered unexpected errors while debugging dynamic routing and API response handling, requiring additional time to resolve.

Resolutions:

- Utilized debugging tools like Postman and browser dev tools to troubleshoot API and routing issues.
- Optimized state management and validation processes to improve data handling.