

Marketplace E-Commerce

Hekta Furniture Hackathon

Day 5

Template-4

Testing Error Handling and

Backend Integration

Refinement.

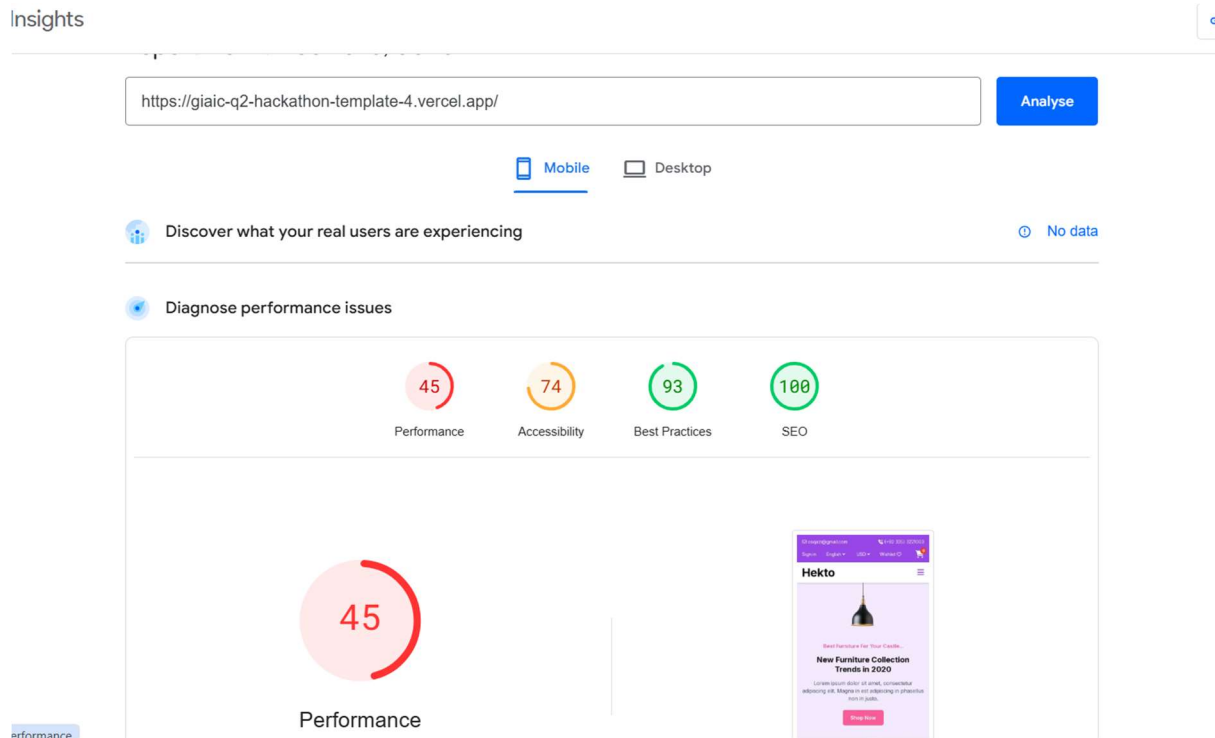
Prepared by Owais Qazi

Day 5 - Testing and Backend Refinement - Hekto Furniture

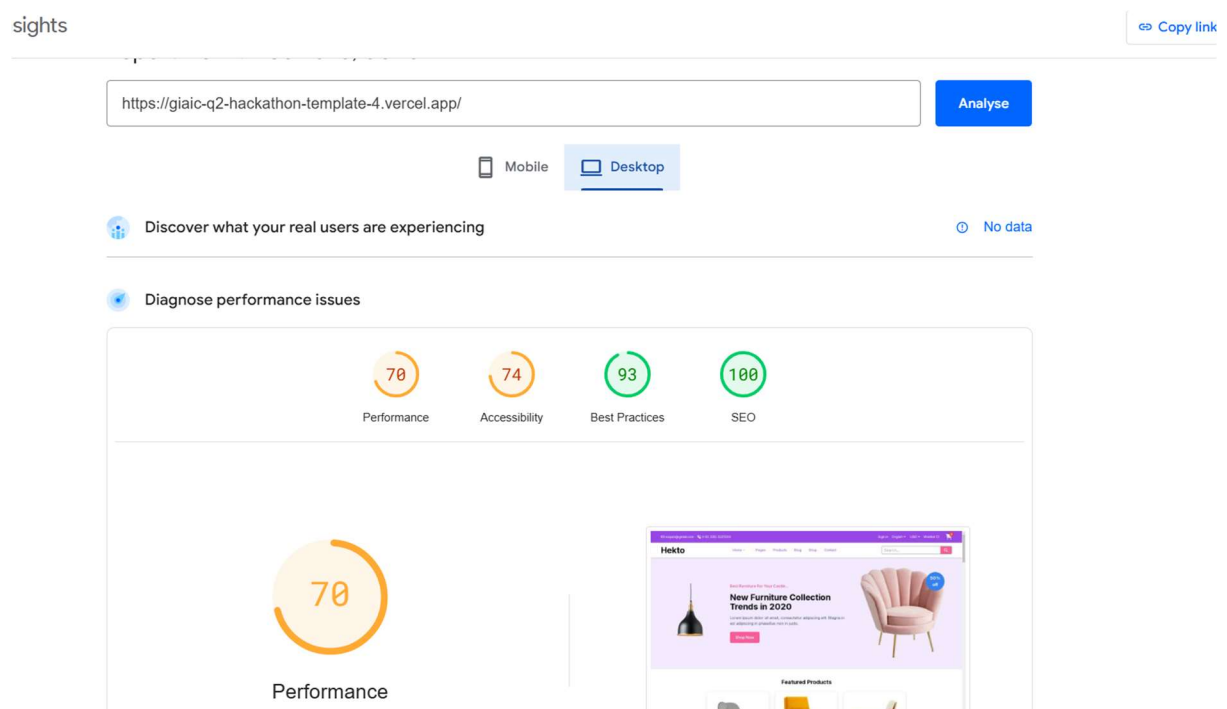
1. Functional Deliverables

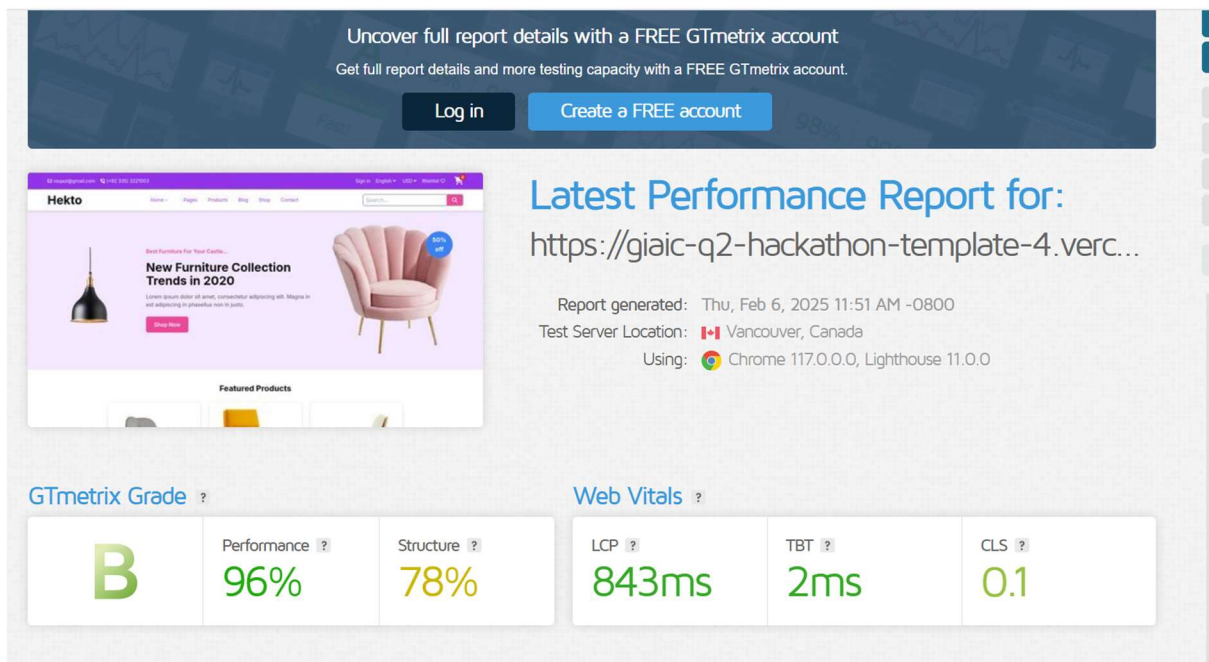
Screenshots showcasing functional and responsive components. Additionally, Lighthouse reports have been used for performance analysis.

Insights



sights





2. Testing Report

A detailed testing report in CSV format is attached. It includes test cases executed, expected and actual results, statuses, severity levels, and assigned personnel.

3. Documentation

Test Cases and Results

The attached testing report outlines all test cases executed, including performance and security checks.

Error Handling and Performance Optimization

To catch the errors, try and catch approach has been deployed so that the issues can be reacted to as per provided instructions in case of errors. And to enhance performance, Next.js Image optimization was implemented, reducing image load time. Lazy loading and caching strategies were used to improve page speed.

Security Measures

Security measures implemented include:

- Secure tokens for authentication.
- Middleware for authentication checks before redirecting to protected pages.
- Use of environment variables for storing sensitive credentials such as API keys for Sanity, Clerk Auth, and Stripe.

Challenges Faced and Resolutions

A major issue encountered was compatibility problems with Next.js 15. Due to various breaking changes, I downgraded the version to Next.js 14.2.2 to ensure stability.