# Day 6 - Deployment Preparation and Staging Environment Setup

## 1. Staging Environment Setup

#### **Hosting Platform Configuration**

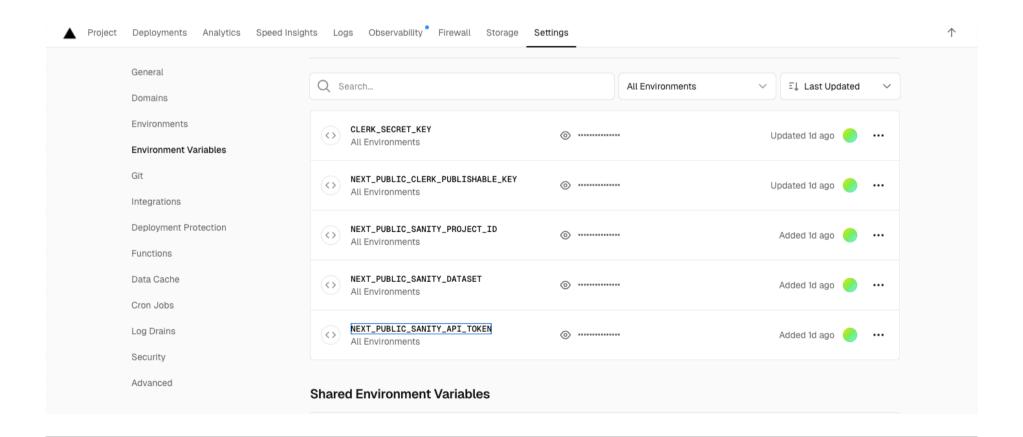
- Platform Used: Vercel
- . Steps Taken:
  - 1. Connected the GitHub repository to Vercel.
  - 2. Configured build and deployment settings for the staging environment.
  - 3. Added environment variables securely within the Vercel dashboard:

#### **Clerk Secret**

- CLERK\_SECRET\_KEY=<your secret key>
- NEXT\_PUBLIC\_CLERK\_PUBLISHABLE\_KEY=<your publishable key>

#### **Sanity Secret**

- NEXT\_PUBLIC\_SANITY\_PROJECT\_\_ID=your\_\_project\_\_id
- NEXT\_PUBLIC\_SANITY\_DATASET=production
- NEXT\_PUBLIC\_SANITY\_API\_TOKEN=your\_\_api\_\_key



# 2. Testing in Staging Environment

# **Functional Testing**

- . Tests Conducted:
  - Verified product listing and filtering functionality.
  - o Tested cart operations, including adding and removing items.
  - 。 Checked navigation between pages to ensure seamless transitions.

## **SUCCESSFULL**

## **Performance Testing**

. Tool Used: GTmetrix

• Results:

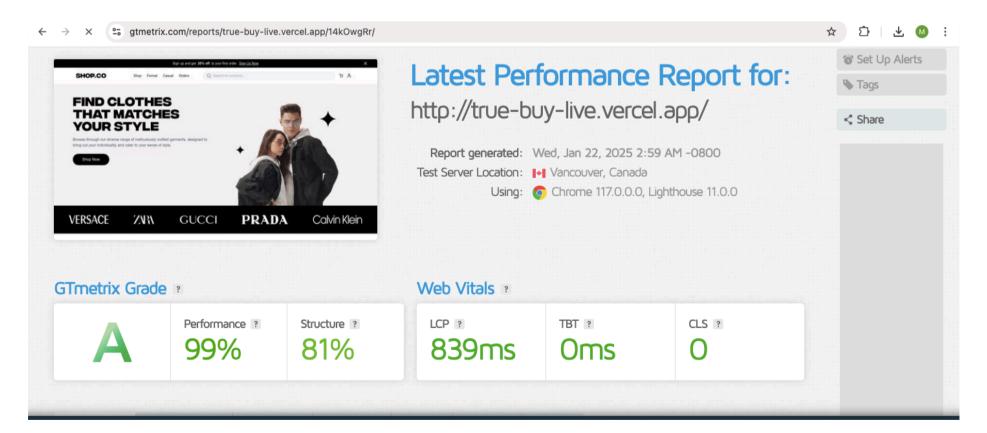
o Performance Score: 99

**o** Key Metrics:

• **LCP**: 839ms

- **TBT**: 0ms

• **CLS**: 0



#### **Security Testing**

#### • Tests Conducted:

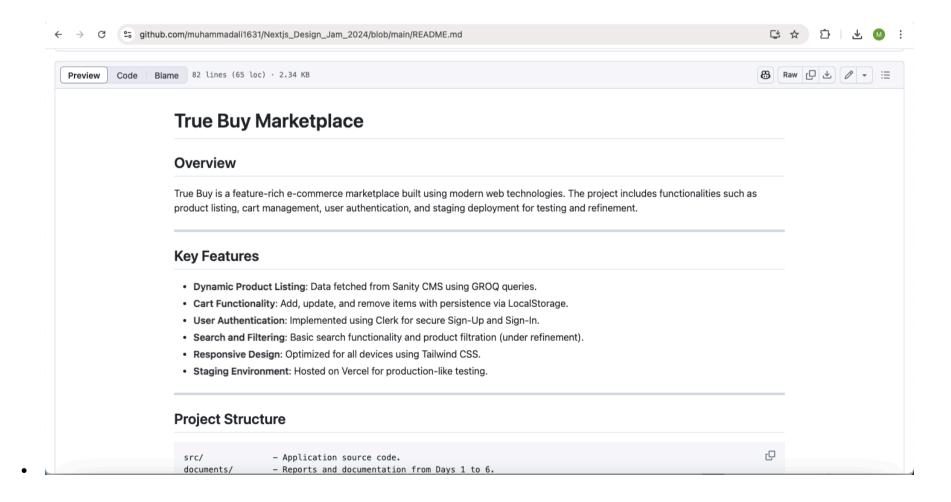
- o Input validation for all forms to prevent XSS and SQL injection.
- o Verified that API keys and sensitive data are securely hidden.
- 。 Ensured HTTPS is enabled for secure communication.

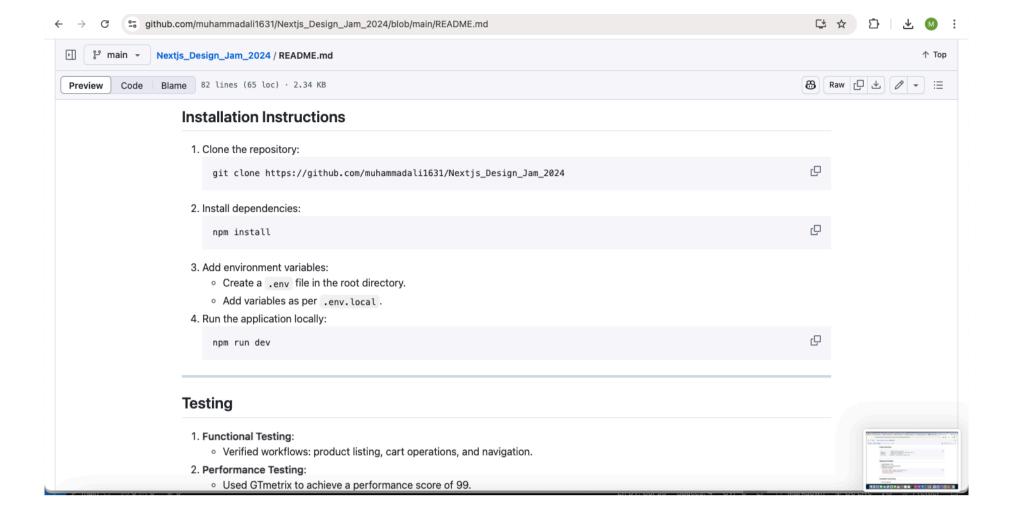
#### **SUCCESSFULL**

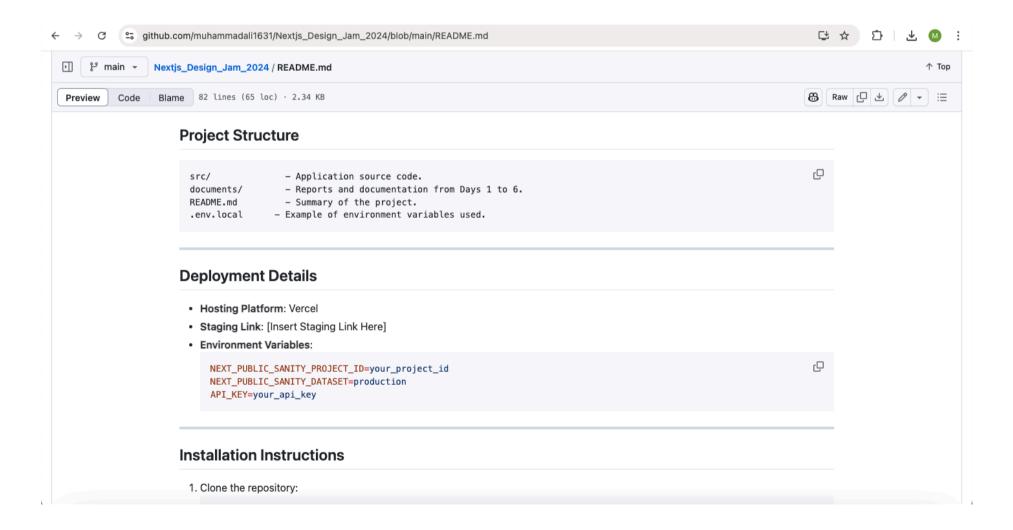
## 3. Documentation Updates

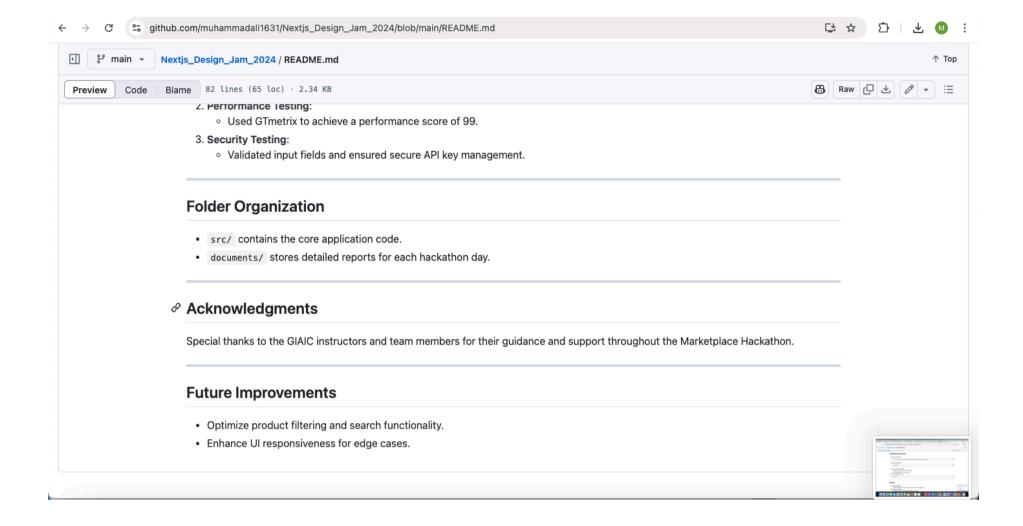
## **README. md Summary**

- Included a detailed summary of:
  - Project setup and deployment process.
  - <sub>o</sub> Key activities from Days 1 to 6.
  - 。 Folder structure and file descriptions:
  - o /src Source code for the application.
  - o /documents Reports and documentation.
  - 。 README.md Summary of project activities.
- Added instructions for accessing the staging environment.



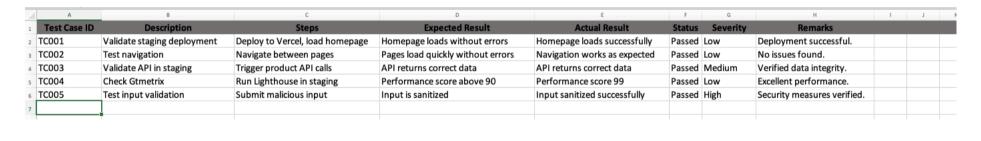






#### 4. CSV Testing Report

- Created a detailed CSV report with fields:
  - Test Case ID, Description, Steps, Expected Result, Actual Result, Status, Severity, and Remarks.



#### 5. Submission Checklist

- Staging environment deployed successfully.
- GitHub repository updated with organized files and README.md.
- Functional, performance, and security testing completed.
- Test case report (CSV) created.
- Performance testing results included.

This document outlines the activities and results of Day 6, focusing on staging environment setup, testing, and deployment readiness.