Day 6 - Deployment Preparation and Staging Environment Setup - Furniro

Overview:

I have successfully completed the deployment preparation and staging environment setup for my marketplace project. Below are the details of what I did

1. Hosting Platform Setup

- I selected Vercel as the hosting platform for its seamless integration with Next.js and ease of deployment.
- Repository Connected: I connected my GitHub repository to Vercel to enable automated deployments.
- Build Configuration: Configured the default build settings provided by Vercel. The build command (next build) and output directory (.next/) were automatically detected.

2. Environment Variable Configuration

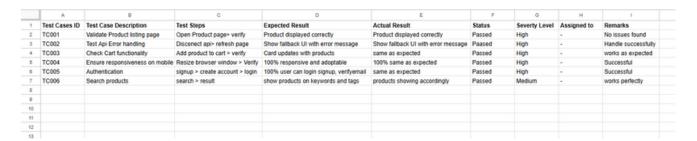
- I created a .env file in the root of my project to store sensitive variables, including:
 - NEXT_PUBLIC_SANITY_PROJECT_ID
 - NEXT_PUBLIC_SANITY_DATASET
 - API_KEY
- These variables were securely added to the Vercel dashboard under the Environment Variables section to avoid exposing them in the codebase.

Staging Environment Testing

Testing Types

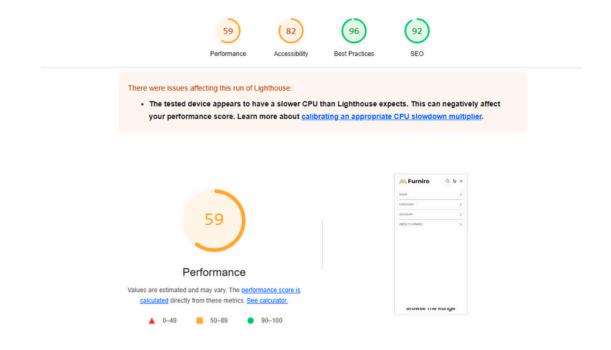
- Functional Testing: Verified critical features, including product listings, search functionality, and cart operations.
- Performance Testing: Analyzed application speed and responsiveness using Lighthouse and GTmetrix.
- Security Testing: Ensured secure API communications, validated input fields, and verified HTTPS usage.

Test Case Reporting Documented test cases in a structured CSV format:



Performance Testing:

I have test my website performence with Lighthouse, Here are some snap shots of my report:



Key Deliverables

Hosting Configuration

- Successfully linked GitHub repository and configured deployment settings on Vercel.
- Deployed the application to a staging environment for thorough testing.

Environment Variable Management

 Ensured secure storage of sensitive keys and tokens in both .env files and hosting platform configurations.

• Testing Documentation

- Provided comprehensive test case reporting covering functional, performance, and security aspects.
- Uploaded performance analysis reports to the project repository.

Validated Deployment

 Confirmed the staging environment's readiness for production deployment with a fully functional and tested application.

Day 6 Checklist:

Deployment Preparation:

- ✓ Hosting platform setup completed (e.g., Vercel).
- ✓ Environment variables configured securely.

Staging Environment Testing:

- ✓ Functional testing completed and verified.
- ✓ Performance testing conducted using Lighthouse/GTmetrix.
- ✓ Security testing performed for input validation, HTTPS, and sensitive data handling.
- ✓ All test results documented.