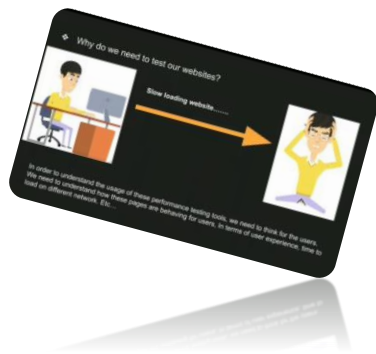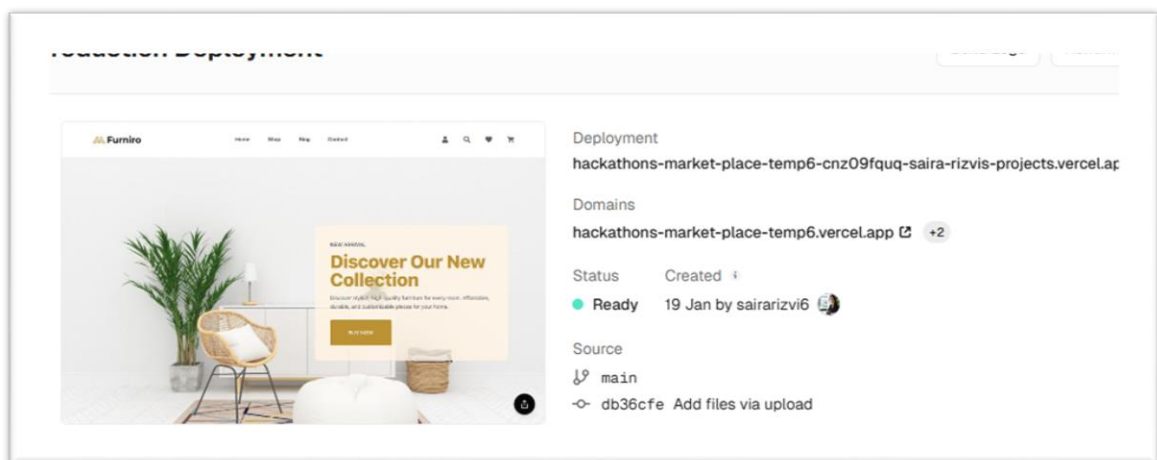# Day 6 - Deployment & Staging Environment Setup

❖ Objective/Overview

The objective of Day 6 is to prepare the furniture marketplace for deployment by establishing a staging environment, configuring hosting platforms, and ensuring the application is production-ready. This stage focuses on creating a robust and efficient foundation to deliver a seamless customer experience.

❖ Deployment Environment: (Vercel Platform)

Deployment setting **(Vercel)** has been selected as the hosting platform for its exceptional capabilities in hosting modern web applications. It seamlessly integrates with Next.js, ensuring optimized performance, fast build times, and efficient deployments. The platform's automatic scaling and CDN infrastructure enhance reliability and ensure low latency for users worldwide.
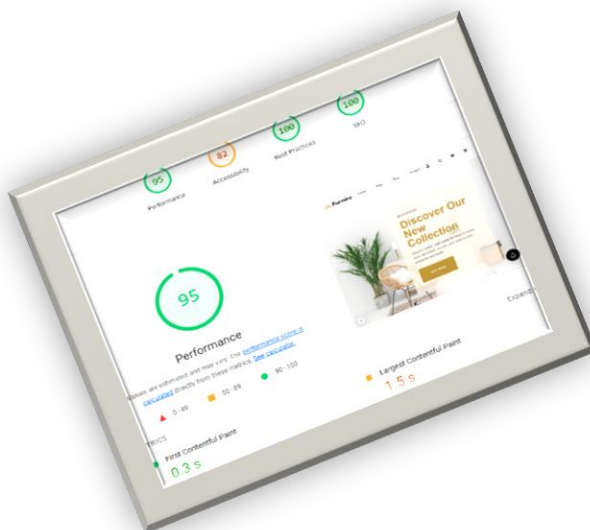
❖ **Configuring Hosting Platforms**

The configuration process involves linking the repository to Vercel, setting up environment variables, and defining the build and deployment settings. This ensures that every update to the codebase is deployed smoothly and efficiently through Vercel's built-in CI/CD pipeline.
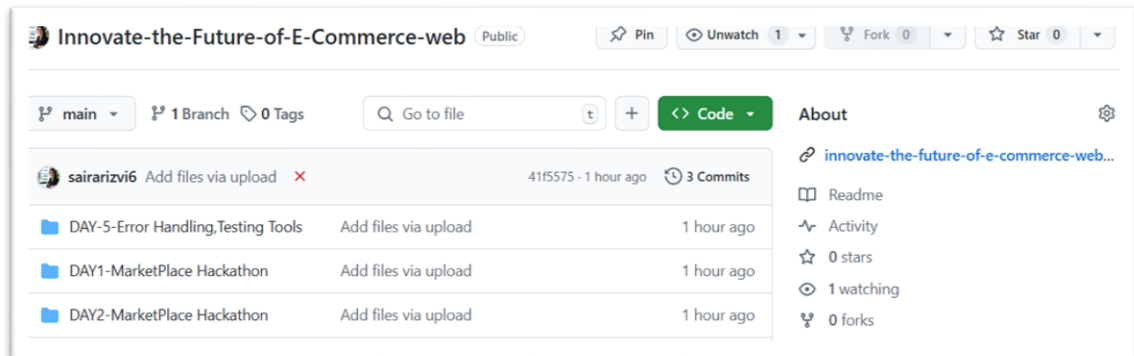

❖ **Testing with Lighthouse**

To validate the marketplace's performance, accessibility, and SEO, Lighthouse testing will be conducted. This ensures that the application meets high-quality standards and provides an excellent user experience. Optimization based on these test results will further improve the app's readiness.

❖ Integration with GitHub

Version control and collaboration are essential to ensure a streamlined deployment process. GitHub will be utilized to manage the code repository, track changes, and integrate seamlessly with Vercel for automated deployments. This ensures efficient teamwork and simplifies application maintenance.

❖ Finalizing for Production

By completing these steps, the staging environment will mirror the production setup, allowing for realistic testing and identifying potential issues. This ensures that the marketplace operates seamlessly once deployed for customer use.