Day 6 - Deployment Preparation and Staging Environment Setup

Objective:

Day 6 focuses on preparing your marketplace for deployment. This involves setting up a staging environment, configuring hosting platforms, and testing the application in a production-like environment. This process will help make your marketplace ready for production.

Key Steps We Implemented:

Step 1: Hosting Platform Setup

Choosing the Platform:

We selected Vercel because it offers simple and fast deployment and has seamless integration with Next.js.

• Connecting GitHub Repository:

We linked our GitHub repository with Vercel. This step was completed easily, and we configured the build setup for our repository.

Configuring Build Settings and Deployment:

We configured the build and deployment settings correctly to ensure successful staging builds. This included setting up build scripts.

Step 2: Environment Variables Configuration

Creating .env File:

We securely stored sensitive data such as API keys and tokens in a .env file. The file included variables such as:

- NEXT PUBLIC SANITY PROJECT ID
- NEXT_PUBLIC_SANITY_DATASET
- o API_KEY

Uploading Variables to Hosting Platform:

We uploaded our environment variables securely through the hosting platform's dashboard to ensure secure deployment in the production environment.

Step 3: Deploying the Application to Staging

• Deployment:

We deployed the application to Vercel's staging environment.

• Deployment Validation:

After the deployment, we verified that the build process completed successfully without errors, and the application loaded correctly.

Step 4: Staging Environment Testing

Functional Testing:

We tested major features of the application, such as product listing, cart functionality, and search features. We used tools like Cypress to test workflows.

• Performance Testing:

We used Lighthouse and GTmetrix to analyze the speed and responsiveness of the application.

Security Testing:

We ensured that HTTPS was enabled, API keys were handled securely, and input fields were protected against SQL injection.

• Responsiveness Testing:

We made the layout responsive and ensured it displayed correctly on both mobile and desktop screens.

• Test Case Reporting:

We documented the test cases in a CSV file, which included the following information:

- Test Case ID
- Description
- Steps
- Expected Result
- Actual Result
- Status
- Remarks