

DAY 6

DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

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Introduction:

The goal of this phase was to prepare the marketplace for deployment by setting up a staging environment, configuring the hosting platform, and testing the application in a production-like setting.

Hosting Platform Setup:

Platform Used: Vercel

Connected GitHub repository to the hosting platform and configured build settings.

Environment Variables:

- Configured sensitive environment variables (e.g., API keys) using .env files and added them securely in the hosting platform.

Configure Environment Variables

Creating .env file:

Created a .env file in a root directory of my project to securely store sensitive variables such as API keys and tokens

Deployment to Staging:

- Deployed the application to a staging environment and verified successful build and correct loading of the site.

Staging Testing:

- **Functional Testing:** Validated product listing, search, and cart operations using **Cypress**.
- **Performance Testing:** Ran **Lighthouse** for performance, achieving a score of **90/100**.
- **Security Testing:** Checked for SQL injection, XSS, and ensured HTTPS was enabled.
- **Responsiveness:** Tested across various screen sizes for mobile compatibility.

Test Reporting:

- Documented all test cases with results (e.g., Product Listing, Cart Functionality) in a structured CSV file.
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Documentation and Organization:

- Created a detailed **README.md** and ensured the project files were organized with a clear folder structure.

3. Test Results

- **Functional Testing:** All features passed as expected.
- **Performance:** Lighthouse score of **90/100**, minor improvements suggested.
- **Security:** No vulnerabilities found, all security measures in place.
- **Responsiveness:** Fully responsive across devices.

This concludes the deployment preparation and staging environment setup. All systems are ready for further testing or production deployment.