

Day 6 - Deployment Preparation and Staging Environment Setup

Objective:

Preparing the marketplace for deployment by setting up a staging environment, configuring hosting platforms, and ensuring readiness for a customer-facing application.

Key Outcomes:

1. Staging Environment Setup:

- Selected a hosting platform **Vercel**.
- Connect **GitHub repository** to the hosting platform.
- Configure build and deployment settings for successful staging builds.
- Securely set up **environment variables** within the hosting platform.
- Validate application functionality in a production-like environment.

2. Staging Environment Testing:

- Conducted **functional, performance, and security testing**.
- Documented all test results.

3. Deployment Documentation:

- Created comprehensive documentation, including performance and test case reports.

4. Organized GitHub Repository:

- Maintain a clear folder hierarchy and consistent naming conventions.
 - Include a **README.md** summarizing the project structure.
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Key Features:

1. Deployment Strategy Planning:

- **Choose a Hosting Platform:**
 - Using **Vercel** for hosting.
 - Finalize interactions with backend services like **Sanity CMS** and third-party APIs.

2. Environment Variable Configuration:

- Securing API keys, database credentials, and sensitive data using .env files.
- Configure environment variables in the hosting platform.

3. Staging Environment Setup:

- Deploy the application to a **staging environment**.
- Validate that deployment builds successfully and the site loads correctly.

4. Staging Environment Testing:

- **Functional Testing:**
 - Using **Google Pagespeed** for performance.
 - Using **Postman** to validate API responses.
- **Performance Testing:**
 - Using **Google Pagespeed** to analyze speed and responsiveness.
- **Security Testing:**
 - Validating input fields to prevent SQL injection.
 - Ensuring HTTPS is enabled.
 - Verify proper handling of sensitive data.
- **Responsiveness Testing:**
 - Ensure the layout adjusts properly on various screen sizes.

5. Documentation Updates:

- Created a **README.md** summarizing all six days of activities.
 - Include reports, test cases, and deployment instructions in a structured GitHub repository.
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Conclusion:

By completing Day 6, I will be equipped with the skills and knowledge required to deploy a robust and production-ready marketplace. This process emphasizes industry-standard practices, ensuring a seamless transition from development to a customer-facing environment.