

Day 6 - Deployment Preparation and Staging Environment Setup

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Deployment Summary

Objective: The goal of Day 6 is to successfully deploy the marketplace project in a staging environment using Vercel and securely configure environment variables.

Key Tasks Accomplished:

1. Hosting Platform Setup:

- Selected **Vercel** [Free Plan] as the hosting platform.
- Connected GitHub repository to Vercel for deployment.
- Configured build and deployment settings.

2. Environment Variable Configuration:

- Created a **.env** file locally with the following keys:
 - **NEXT_PUBLIC_SANITY_PROJECT_ID**
 - **NEXT_PUBLIC_SANITY_DATASET**
 - **API_KEY**
- Uploaded these variables securely to Vercel via the dashboard.

3. Deployment to Staging:

- Deployed the marketplace application to a **staging environment** using Vercel.
- Verified that the deployment build completed successfully.
- Ensured the website loaded without errors and all major workflows were functional.

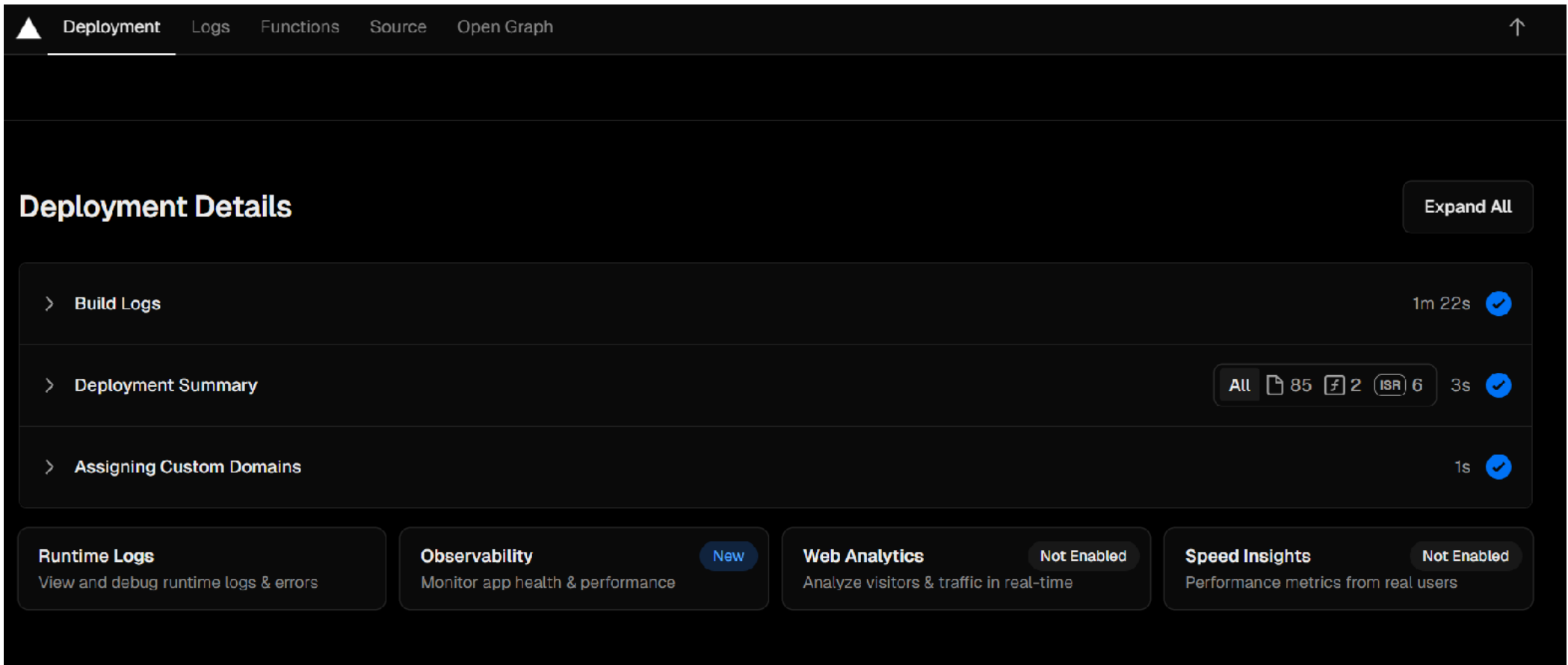
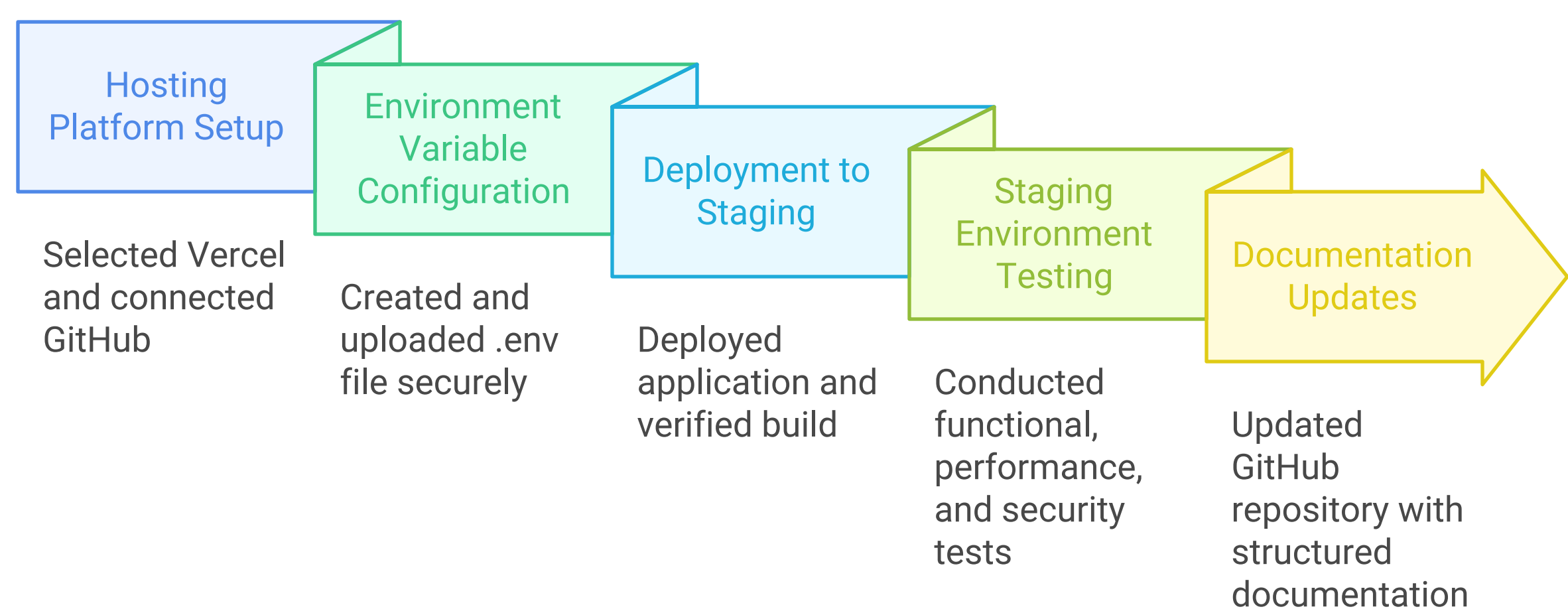
4. Staging Environment Testing:

- Conducted the following tests:
 - **Functional Testing:** Verified workflows like product listing, cart operations, and API interactions.
 - **Performance Testing:** Used Lighthouse for speed, responsiveness, and load time analysis.
 - **Security Testing:** Confirmed input field validation, proper handling of API keys, and HTTPS implementation.
- Documented all test cases and results in a CSV format.

5. Documentation Updates:

- Created a structured **GitHub repository**:
 - **Folder Hierarchy:**
 - **documents/** [Includes all reports from Day 1 to Day 6]
 - **src/** [Source code files]
 - **public/** [Static assets]
 - Added a **README.md** summarizing the project structure, deployment steps, and key outcomes.

Deployment and Staging Setup Process



Expected Outputs Submitted

1. **Staging Environment Link:** [Your Staging Environment Link]
2. **GitHub Repository:** [Your Repository Link]
 - Includes:
 - Deployment documentation.
 - Test case report in CSV format.
 - Lighthouse performance testing results.
 - Organized project files.
 - Professional **README.md**.

Submission Checklist

- TaskStatus
- Deployment Preparation ✓
- Staging Environment Testing ✓
- Documentation Updates ✓
- Form Submission ✓
- Final Review ✓

Made by Tayyab Ilyas (Student Leader)