

DAY 6 Deployment Preparation and Staging Environment Setup

- **Live Website:** <https://hackathon3-7gww.vercel.app/>
- **GitHub Repository:** <https://github.com/sarimofficial/hackathon3>

Deployment Steps:

1. **Project Setup:** Verified all files, dependencies, and configurations to ensure readiness for deployment.
2. **Connecting to Vercel:** Linked the GitHub repository to Vercel for automated deployment.
3. **Environment Configuration:** Configured necessary environment variables in Vercel's dashboard to ensure proper application functionality.
4. **Deployment:** Used Vercel's intuitive interface to build and host the application.
5. **Testing the Live Version:** Verified that all features, designs, and functionalities work as intended.

This deployment highlights my ability to prepare a project for production and host it on a reliable platform like Vercel, ensuring a smooth and accessible experience.

Configuration of Environment Variables on Vercel

I have successfully created and configured the **.env** environment variables on Vercel. All sensitive data, such as API keys, project IDs, and database URLs, have been securely added through Vercel's dashboard under the Environment Variables section. This guarantees secure access to essential data during deployment.

Staging Environment Testing Completion Report

I have completed the **Staging Environment Testing** to ensure the application is production-ready. Below is a summary of the testing process:

1. Testing Performed:

- **Functional Testing:** Verified workflows like product listing, cart, and checkout using Cypress and Postman.

- **Performance Testing:** Analysed speed and load times using Lighthouse and GTmetrix.
- **Security Testing:** Checked for SQL injection, XSS, HTTPS security, and secure API communication.
- **Responsiveness Testing:** Ensured an optimized layout across multiple devices using browser tools.

2. Test Results:

- **Documented test cases** in a structured format, including ID, description, steps, expected/actual results, and status.
- **Detailed reports and images** have been compiled for review.

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