

Day-6 Deployment Preparation and Staging Environment Setup – Hekto

1. Introduction

This report confirms the successful completion of all tasks related to the deployment preparation and staging environment setup. All necessary steps have been carried out and verified.

2. Deployment Strategy

- **Vercel** was successfully selected and integrated as the hosting platform.
- The **GitHub repository** was connected to Vercel, ensuring a seamless deployment process.
- Build and deployment settings were configured, and the deployment was completed without any errors.

3. Environment Variables Configuration

- A **.env** file containing sensitive information such as API keys was created.
- All environment variables were securely uploaded and configured within the Vercel dashboard.

4. Staging Environment Deployment

- The application was successfully deployed to the **staging environment**.
- The site was verified to load correctly, and all core functionalities were tested and confirmed operational.

5. Staging Environment Testing

5.1 Functional Testing

- All features, including product listings, cart operations, and API interactions, were successfully verified.
- All pages loaded correctly without any errors.

5.2 Performance Testing

- **Lighthouse** was used to analyze website speed and responsiveness.
- Page load times were optimized, and the application performed efficiently.

5.3 Security Testing

- HTTPS implementation was successfully validated.
- Secure handling of API keys and user inputs was confirmed.

5.4 Test Case Reporting

Test Case ID	Description	Steps	Expected Result	Actual Result	Status
TC001	Validate product listing	Open product page	Products displayed	Products displayed	Passed
TC002	API error handling	Disconnect API	Show fallback message	Fallback message shown	Passed
TC003	Cart functionality	Add item to cart	Cart updates correctly	Cart updates correctly	Passed
TC004	Responsive layout check	Resize browser	Layout adjusts properly	Layout adjusts properly	Passed

6. Documentation Updates

- A **README.md** file summarizing the project was created and finalized.
- All project files, reports, and test documentation were properly organized in a structured GitHub repository.

7. Outcome Summary

- ✔ Staging environment successfully deployed.
- ✔ Environment variables securely configured.
- ✔ Functional, performance, and security tests completed with successful results.

✓ Test case and performance reports documented and uploaded.

✓ GitHub repository structured and maintained properly.

8.Submitted Items:

- Staging deployment link

<https://hackthon-3-market-place-product-hekto-by-laiba-theai.vercel.app/>

- GitHub repository containing all required documents and reports

<https://github.com/laibathecoder/UI-UX-Hackathon-2.git>

- Readme.md file link

<https://github.com/laibathecoder/UI-UX-Hackathon-2/blob/1fdae08550060979cb7266ebd45c31e976aa5dd0/README.md>

9. Final Confirmation Checklist

✓ Deployment Successfully Completed

✓ Staging Environment Verified and Functional

✓ Documentation Finalized and Uploaded

✓ Final Review Completed

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