

Day 7 - Final Deployment and Launch Report

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Objective

The primary objective for today was to deploy the marketplace to the production environment, perform final validations, and officially launch the application.

Key Outcomes

1. Successfully deployed the application to the production environment.
2. Conducted final functional, performance, and security checks.
3. Finalized project documentation, ensuring a seamless handover.

Steps I Followed

Step 1: Production Deployment

- **Hosting Platform Configuration:**
 - Used Vercel for deployment due to its reliable production support.
 - Adjusted build settings to target production.
- **Environment Variables Update:**
 - Uploaded production-specific variables securely to Vercel's dashboard.
 - Example:
 - NEXT_PUBLIC_SANITY_PROJECT_ID=prod_project_id
 - NEXT_PUBLIC_SANITY_DATASET=production
 - API_KEY=prod_api_key

Step 2: Final Testing

1. **Functional Testing:**
 - Verified all workflows in production (e.g., user authentication, product listing, cart functionality).
 - Validated API integration and dynamic content rendering using Cypress.
2. **Performance Testing:**
 - Ran Lighthouse analysis to ensure production optimization.
 - Achieved a performance score of 95/100.
3. **Security Testing:**
 - Ensured secure handling of sensitive data and enabled HTTPS.
 - Validated secure API responses using Postman.

Step 3: Documentation Finalization

1. **README.md Update:**
 - Included detailed deployment steps for production.
 - Added links to live production site and GitHub repository.
2. **Organized Files:**
 - Maintained a clear folder structure.

- Included test results, reports, and production-specific notes in the documents/ folder.

Step 4: Application Launch

- Verified that the application loaded correctly in production.
- Shared the production link with stakeholders for review and feedback.

Deliverables and Submission

1. **Deployed Application:**
 - Link: [\[Production Environment Link\]](#)
2. **GitHub Repository:**
 - Organized project files with all documents and reports.
 - Link : [Github Repo](#)

Challenges I Faced

1. **Environment Variable Misconfiguration:**
 - Resolved by carefully reviewing and updating variables in the hosting dashboard.
2. **Minor UI Issues in Production:**
 - Debugged and fixed styling inconsistencies due to cache invalidation.

Best Practices Followed

1. **Environment Security:**
 - Ensured no sensitive data was exposed in the production build.
2. **Version Control:**
 - Maintained a clean and organized commit history.
3. **Testing Standards:**
 - Conducted thorough end-to-end testing for production readiness.

What I Achieved Today

1. Successfully deployed the marketplace application to production.
2. Conducted final validations for performance, functionality, and security.
3. Officially launched the application, completing all planned milestones.