

Day_6 Deployment Preparation and Staging Environment Setup

1. Project Overview

Project Name: Figma Hackathon Project

Deployment Platform: Vercel

Live Staging Link: <https://figma-hackathon-inky.vercel.app/>

GitHub Repository: <https://github.com/syedafizza410/figma-hackathon>

2. Deployment Steps

2.1 Hosting Platform Setup

1. **Selected Hosting:** Vercel (Recommended for Next.js Applications) 2.

GitHub Integration:

- Connected the repository to Vercel.
- Enabled automatic deployments on push to the main branch.

3. **Build & Deployment Configuration:** ○

Framework Preset: `Next.js` ○

Build Command: `next build` ○

Output Directory: `.next`

2.2 Environment Variables Configuration

Uploaded the following environment variables to Vercel:

`NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id`

`NEXT_PUBLIC_SANITY_DATASET=production`

`API_KEY=your_api_key` **2.3**

Deployment Validation

- Verified build success.
- Checked proper page loading without console errors.

3. Testing Reports

3.1 Functional Testing

Performed end-to-end functional testing using the uploaded **Test Case Report**. The key tests include:

- Product listing and search functionality.
- Cart operations (Add, Remove, Update Quantity).
- Checkout process validation. ☐ Order history management.

Test Case Summary:

Test Case ID	Description	Expected Result	Actual Result	Status
TC001	Add to Cart	Product should be added to cart	Product added successfully	✓ Passed
TC002	Remove from Cart	Product should be removed from cart	Product removed successfully	✓ Passed
TC003	Checkout Process	Order should be placed successfully	Order placed successfully	✓ Passed

(Complete test cases available in the uploaded Test Case Report CSV file.)

3.2 Performance Testing

Lighthouse Performance Test was conducted. Key metrics include:

- **First Contentful Paint (FCP):** 0.7s (Good)
- **Largest Contentful Paint (LCP):** 1.0s (Good)
- **Speed Index:** 1.2s (Good)
- **HTTPS & Security Check:** Passed ✓

Performance Summary:

Metric	Score
First Contentful Paint	0.7s
Largest Contentful Paint	1.0s
Speed Index	1.2s
HTTPS & Security	✓ Passed

(Complete details available in the uploaded Lighthouse Report HTML file.)

4. Repository Structure

To maintain a structured repository, the following organization was implemented:

```
📁 project-root/  
├── 📁 src/ (Source code)
```

- └─ 📁 public/ (Static files)
- └─ 📁 .doc/ (Reports & test cases)
- └─ 📄 README.md (Project documentation)

5. Submission Checklist

Requirement	Status
✓ Deployment successful	✓ Completed
✓ Environment variables configured	✓ Completed ✓
Test cases documented	✓ Completed ✓
Performance testing done	✓ Completed ✓ GitHub
repository structured	✓ Completed
✓ README.md includes all details	✓ Completed

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