

## Day 6 - Deployment Preparation and Staging Environment Setup

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### Step 1: Hosting Platform Setup

The project has been deployed on **Vercel** to ensure smooth performance and scalability.

#### 1.1 Hosting Platform Selection

✓ **Vercel** (*Selected for its Next.js optimization and seamless integration with GitHub*)

#### 1.2 GitHub Repository Connection

- The GitHub repository has been successfully connected to **Vercel**.
- Auto-deployment is enabled for every push to the **main branch**.

#### 1.3 Deployment Configuration

- **Build Command:** `npm run build`
- **Root Directory:** `/`
- **Environment Variables Configured (Step 2)**

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### Step 2: Environment Variables Configuration

Environment variables are securely managed within **Vercel**.

#### 2.1 .env File Configuration (Local Development)

```
NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id
NEXT_PUBLIC_SANITY_DATASET=production
API_KEY=your_api_key
```

#### 2.2 Uploading Environment Variables to Vercel

- Variables were added in **Vercel Dashboard** → **Project Settings** → **Environment Variables**.

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### Step 3: Deployment to Staging

### 3.1 Deployment Execution

- Code was pushed to **GitHub** triggering an automatic deployment.
- The build process completed successfully with no errors.

### 3.2 Deployment Validation

- Staging URL: **[Your Staging Link]**
  - Application tested for basic functionality and UI consistency.
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## Step 4: Staging Environment Testing

### 4.1 Functional Testing

- ✓ **Product Listing** – Verified products appear correctly.
- ✓ **Shopping Cart** – Added and removed items successfully.
- ✓ **Checkout Process** – Completed successfully.

### 4.2 Performance Testing

Lighthouse Test Results:

### 4.4 Test Case Documentation (CSV File Created)

Test Case ID	Description	Expected Result	Actual Result	Status
TC001	Validate product listing	Products show	Works fine	✓ Pass
TC002	Test API error handling	Error message	Displayed	✓ Pass
TC003	Check cart functionality	Updates cart	Works fine	✓ Pass

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## Step 5: Documentation Updates

### 5.1 Updated README.md

- ✓ **Project Overview**
- ✓ **Deployment Instructions**
- ✓ **Test Reports Summary**

### 5.2 GitHub Repository Organization

```
/my-project
├── /src
├── /public
├── /documents (All test reports)
└── └── README.md
```

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## Final Submission Checklist ✓

- ✓ Staging Environment Deployed on Vercel
- ✓ GitHub Repository Updated & Organized
- ✓ Test Case Reports (CSV Format) Added
- ✓ Performance Test Results Uploaded
- ✓ README.md Updated

🔗 live link Global Mart : <https://marketplace-builder-hackathon-003.vercel.app/>

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