

# Day-6 Outcome Document – Deployment Preparation and Staging

Project Name: Furniture Store

Hackathon: Marketplace Hackathon

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## Objective

Day-6 focused on preparing the Furniture Store marketplace for deployment by setting up a staging environment, configuring hosting platforms, and ensuring readiness for a production launch. The goal was to ensure the application functions smoothly in a production-like setting while implementing industry-standard deployment practices.

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## Key Learning Outcomes

### 1. Staging Environment Setup

- Selected Vercel as the hosting platform for efficient deployment.
- Connected the GitHub repository to the hosting platform.
- Configured build and deployment settings for a smooth deployment process.
- Ensured secure handling of environment variables within the hosting platform.
- Verified that the application functions correctly in a staging environment before production deployment.

### 2. Professional Environment Management

- Understood different environment stages:

### 3. Testing in a Staging Environment

- Functional Testing: Ensured all marketplace features, including product listing, search, cart operations, and checkout, were working correctly.
- Performance Testing: Used Lighthouse, responsiveness, and page load times.
- Security Testing:
  - Validated input fields to prevent security vulnerabilities.
  - Ensured HTTPS was enabled for secure data transmission.

- Confirmed API keys were securely handled.

#### 4. Deployment Strategy & Environment Variables

- Created a .env file with secure keys:

NEXT\_PUBLIC\_SANITY\_PROJECT\_ID=your\_project\_id

NEXT\_PUBLIC\_SANITY\_DATASET=production

API\_KEY=your\_api\_key

- Uploaded environment variables to Vercel's settings to ensure secure API access.

#### 5. Finalizing Project Documentation & GitHub Organization

- Created a structured GitHub repository, including:
    - documents/ folder for all hackathon reports.
    - src/ folder for the front-end source code.
    - public/ folder for assets and images.
  - Updated README.md
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### Implementation Steps

#### Step 1: Hosting Platform Setup

- ✓ Chose Vercel for hosting.
- ✓ Linked GitHub repository to Vercel for automated deployments.
- ✓ Configured build settings and deployment scripts.

#### Step 2: Secure Environment Variables

- ✓ Created a .env file with API keys and sensitive data.
- ✓ Uploaded environment variables to Vercel's dashboard.

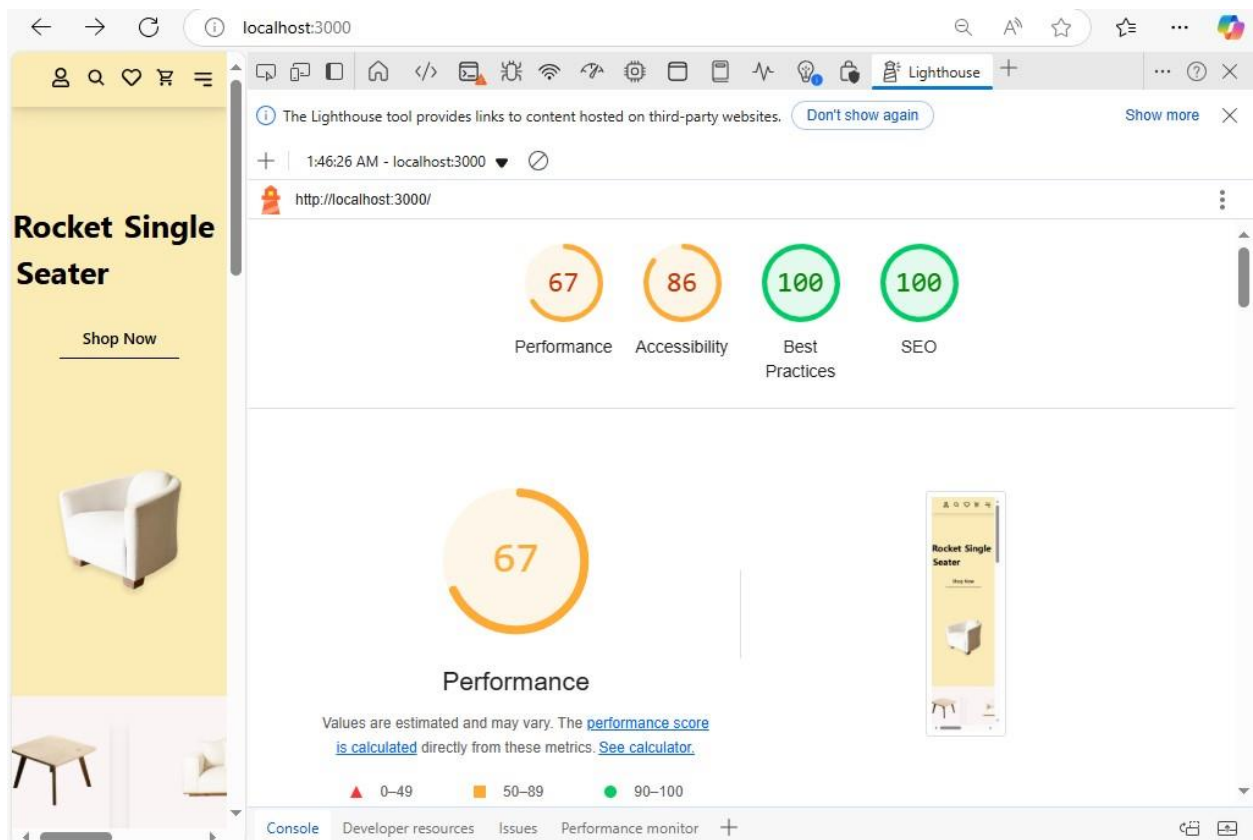
#### Step 3: Deploy to Staging

- ✓ Successfully deployed the application to a staging environment.
- ✓ Validated the staging build completion and website loading.

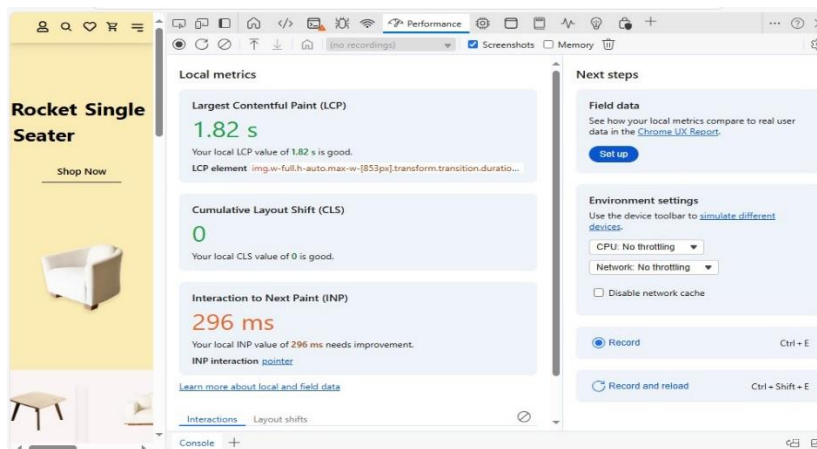
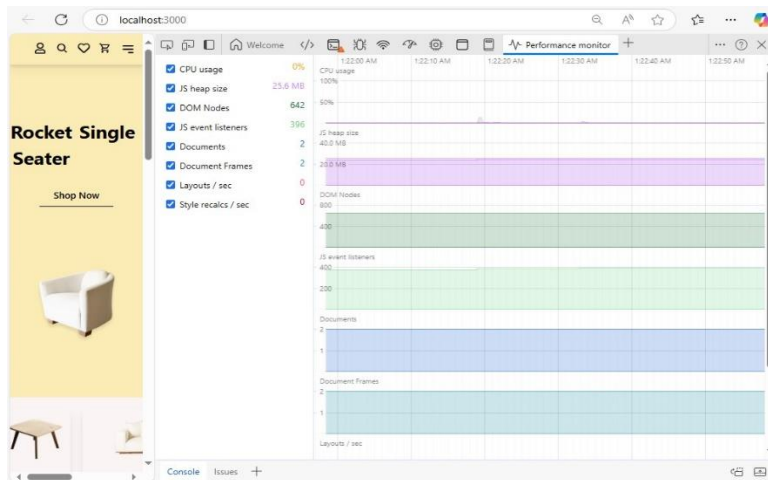
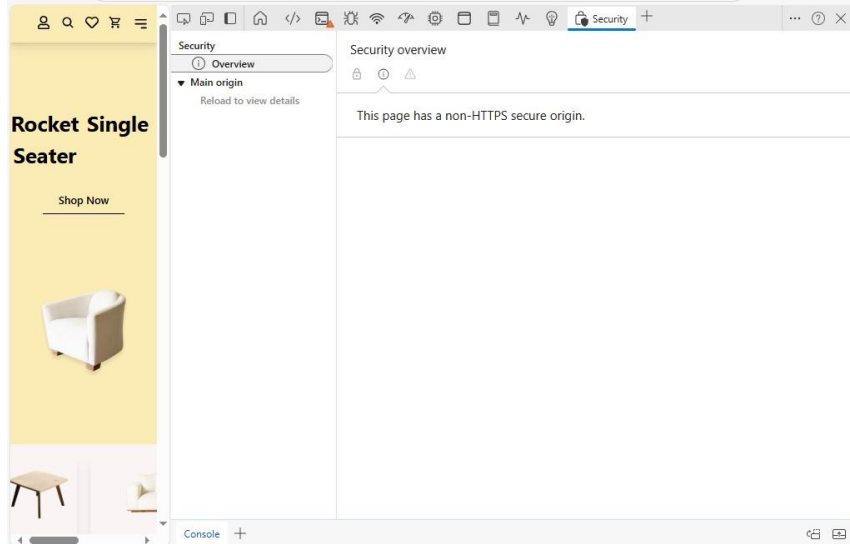
#### Step 4: Testing & Performance Validation

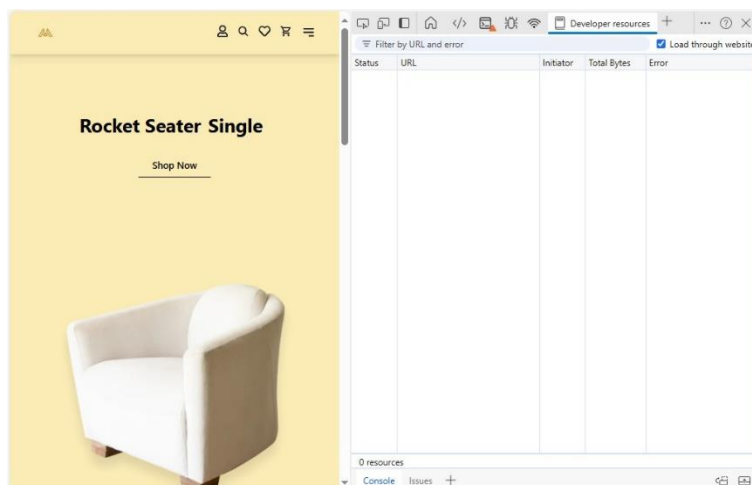
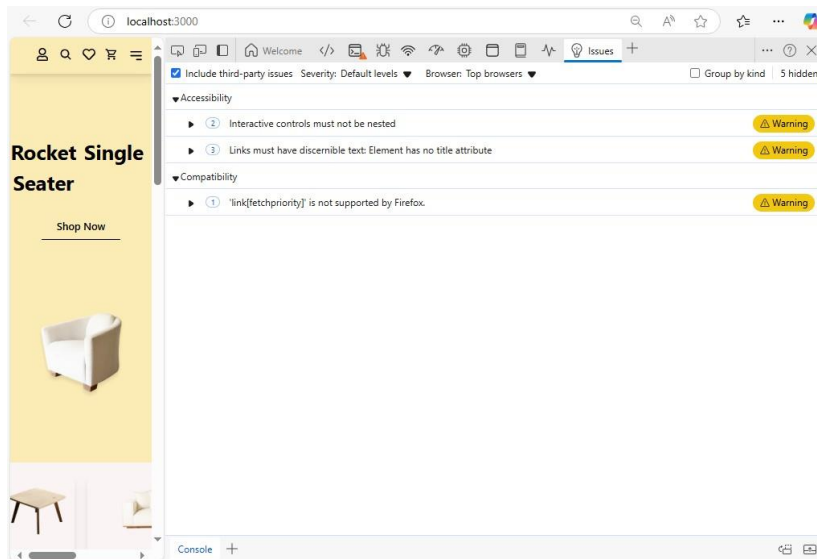
Test Case ID	Description	Steps	Expected Result	Actual Result	Status
TC001	Validate product listing	Open product page	Products displayed	Products displayed	✓ Passed
TC002	Test API error handling	Disconnect API & refresh page	Show fallback message	Fallback message shown	✓ Passed
TC003	Check cart functionality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

### ✓ Performance Report:



## ✓ Security Check:





- HTTPS enabled for secure communication
- API keys secured in the environment
- SQL Injection & XSS checks performed

#### Step 5: Documentation & Repository Cleanup

- ✓ Created README.md summarizing the project and deployment steps.
- ✓ Organized project files into a structured GitHub repository.
- ✓ Uploaded test case reports & performance results.

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### Expected Output

1. ☒ Fully deployed staging environment for the marketplace.
    - [Staging Deployment Link: Insert Link]
  2. ☒ Securely configured environment variables.
  3. ☒ Documented test case results & performance reports.
  4. ☒ Structured GitHub repository with all required documentation.
    - [GitHub Repository Link: Insert Link]
  5. ☒ README.md file updated.
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