HACKATON DAY 6 SAAD DARBARI

# **Hackathon Day 6**

#### **Deployment Preparation and Staging Environment Setup**

#### **Overview:**

Day 6 focuses on preparing the marketplace for **deployment** by setting up a **staging environment**, **configuring hosting platforms**, **and ensuring readiness** for a customerfacing application. This includes **deploying to Vercel**, **managing environment variables securely**, **and conducting thorough testing** to validate the application in a production-like environment.

# 1. Deployment Preparation

#### **Platform Used:**

Vercel

### **Hosting Platform Setup:**

- Platform: Vercel was selected for its simplicity and seamless integration with Next.is.
- **GitHub Integration:** The repository was connected to **Vercel for automated deployment**.
- Build Settings: Build scripts were configured to ensure successful deployment.

### **Environment Variable Configuration:**

 Environment variables were added securely on Vercel to handle API keys and sensitive information.

# 2. Staging Environment Setup

### **Deployment Process:**

- Staging Environment Link: E-commerce Website by Saad
- Build Status: 

  Successful without errors

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#### Steps completed:

- **∀** The application was deployed to a **staging environment using Vercel**.
- **⊘ Deployment logs were monitored** to ensure successful builds.
- **∀** Basic functionality and responsiveness were verified on the staging environment.
- ✓ Sanity Cross-Origin Configuration: The Vercel deployment link was added to the allowed origins in Sanity to enable fetching products without CORS issues.

### **Staging Validation:**

The application was **tested in the staging environment** to ensure all components, including **API integrations and UI**, functioned as expected.

# 3. Staging Environment Testing

### **Functional Testing**

Test Case ID	Description	Steps	Expected Result	Actual Result	Status	Remarks
1117 7117 1	Validate product listing	1 1		Products displayed	I -	No issues found
#17(1002 1	l'est API error handling	and refresh	fallback	Fallback message shown	∜ Passed	Handled well
11111111111	Check cart functionality		•	Cart updates correctly		Works as expected
TC004	Test responsive layout	Resize browser	,	Layout adjusts properly		Responsive verified

#### **Performance Test Results**

Tool Used: GTmetrixPerformance Metrics:

o Page Load Time: 5 240mso Performance Score: 2 100%

• **Recommendations:** Optimize **image sizes further** for improved performance.



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# **Conclusion**

✓ Day 6 successfully marked the completion of the deployment preparation phase. The marketplace was seamlessly deployed to Vercel, with all environment variables securely configured and cross-origin settings for Sanity adjusted to allow smooth API integration. Testing, including functionality, performance, and security, ensured that the application is ready for production.

The use of **GTmetrix provided valuable insights into optimizing performance**, ensuring **fast load times and a smooth user experience** before full deployment. **39**