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**DAY-06** 

# Deployment Preparation and Staging Environment Setup – HEKTO

### **Introduction:**

On Day 6, our primary objective was to ready the Hekto Marketplace for a seamless production deployment. This phase focused on establishing a robust staging environment that mirrors production, executing comprehensive testing procedures, and ensuring all project documentation is updated to reflect the latest changes. By deploying to Vercel, we aimed to validate the application's functionality, performance, and security standards before the final production rollout.

## **Key Achievements:**

## **Staging Environment Setup:**

Successfully deployed the application on Vercel, creating a production-like staging environment that facilitates thorough pre-production testing.

# **Secure Configuration of Environment Variables:**

Sensitive data, including API keys, was securely managed through Vercel's environment variable settings, reinforcing data protection best practices.

## **Comprehensive Testing:**

### **Functional Testing:**

Confirmed that essential features, such as product listings and shopping cart functionalities, operate as expected.

## **Performance Testing:**

Utilized tools like Lighthouse to assess the application's speed, responsiveness, and overall performance, ensuring a high-quality user experience.

## **Security Testing:**

Verified the secure handling of sensitive data and confirmed that HTTPS is implemented for secure communication.

# **Documentation Updates:**

All relevant project documentation and reports were meticulously updated to capture the latest deployment details and test outcomes, ensuring clear communication and traceability.

## **Deployment and Testing Details:**

#### **Platform:**

The application was deployed on Vercel, accommodating both staging and production environments seamlessly.

#### **Production URL:**

https://heckto-e-commerce.vercel.app

# **Testing Breakdown:**

## **Functional Testing:**

Verified core functionalities including user interactions, product searches, and cart operations.

## **Performance Testing:**

Evaluated the application using Lighthouse to ensure optimal speed and responsiveness under simulated production conditions.

# **Security Testing:**

Ensured that all sensitive data is securely transmitted via HTTPS and that environment variables are protected.

#### Final Checklist

Task	Status
Deployment Preparation	✓
Staging Environment Testin	ng 🗸
Documentation Update	✓
Form Submission Testing	✓
Final Review	✓

This structured and detailed approach confirms that the Hekto Marketplace is fully optimized for production deployment, aligning with the latest industry standards for security, performance, and reliability.