# Hekto Marketplace Project: Final Documentation (Day 7)

## **Overview**

Day 7 marks the successful culmination of the Hekto Marketplace hackathon project. The focus was on deploying the marketplace to a live production environment and implementing post-launch best practices. The achievements of this final day are a testament to the structured progress made over the past six days, ensuring a secure, scalable, and customer-ready platform.

# **Day 7: Live Deployment and Post-Launch Practices**

## **Objective**

The goal of Day 7 was to:

- 1. Deploy the marketplace to a live production environment.
- 2. Implement security measures and disaster recovery (DR) plans.
- 3. Establish post-launch practices for branding, marketing, and operational management.
- 4. Set the stage for scalability and long-term business growth.

## **Key Learning Outcomes**

- 1. Successfully deployed a fully functional marketplace.
- 2. Implemented security measures to safeguard customer data and operations.
- 3. Developed a disaster recovery plan to ensure business continuity.

- 4. Established post-launch strategies, including branding, marketing, and investor outreach.
- 5. Prepared a professional pitch deck for business and investor presentations.

## **Go Live Practices**

## 1. Production Deployment

#### • Environment Setup:

- o Configured production environment variables securely using .env files.
- o Encrypted sensitive data, such as API keys and database credentials.

#### • Secure Hosting:

- o Deployed the marketplace on **Vercel**, leveraging its scalable infrastructure.
- o Enabled HTTPS for secure communication using SSL certificates.

## • Codebase Management:

- o Kept the production repository private to safeguard trade secrets.
- o Documented the deployment process for future reference.

## 2. Penetration Testing and Security

#### Penetration Testing:

- Tested vulnerabilities, including SQL injection, XSS, and CSRF, using tools like OWASP ZAP.
- Focused on critical areas, such as payment systems and authentication mechanisms.

## • Data Encryption:

- o Applied strong encryption standards for sensitive user data.
- Ensured secure data transmission over HTTPS.

#### Role-Based Access Control (RBAC):

- Implemented RBAC to restrict access based on user roles (admin, seller, customer).
- Developed a separate admin dashboard for better security.

#### • Periodic Testing:

o Scheduled recurring audits to maintain security standards.

## 3. Disaster Recovery (DR) Planning

#### Backup Strategy:

- Configured automated backups for databases and assets.
- Stored backups in geographically distributed locations.

#### • DR Environment:

- o Developed a DR plan to restore operations in case of failure.
- o Periodically tested the DR environment to ensure reliability.

## 4. Monitoring and Maintenance

#### Real-Time Monitoring:

 Integrated tools like Google Analytics, Sentry, and Pingdom for monitoring performance and issue tracking.

#### Scheduled Maintenance:

 Planned periodic downtime for updates and communicated schedules to customers.

## • Issue Management:

 Maintained a detailed log of bugs and resolutions for continuous improvement.

## **Post Go Live Practices**

## 1. Branding and Marketing

#### • Branding:

- Designed a professional logo and cohesive brand identity for the marketplace.
- o Established a strong presence on social media platforms.

#### Marketing:

Launched targeted ad campaigns (SEO, email marketing, paid ads).

- Collaborated with influencers and partners to boost visibility.
- o Introduced referral programs to increase customer engagement.

## 2. Investor Partnerships

#### • Pitching to Investors:

- Prepared a business pitch deck showcasing the marketplace's scalability and revenue potential.
- Highlighted technology integration, market opportunity, and growth projections.

#### • Contractual Agreements:

- Defined clear terms for equity sharing, roles, and responsibilities in investor contracts.
- o Ensured legal compliance and alignment with long-term goals.

## 3. Inventory and Resource Management

#### Inventory Planning:

- o Automated inventory tracking and demand forecasting.
- Collaborated with suppliers to maintain stock levels.

#### • Resource Allocation:

- o Allocated resources for customer support and order fulfillment.
- Hired specialized roles for marketing and operations.

# **Business Pitch Deck Summary**

The pitch deck prepared for investors includes:

#### 1. Introduction:

- a. Marketplace name and tagline.
- b. Vision and mission of Hekto Marketplace.

#### 2. Problem Statement:

- a. Highlighted challenges faced by small businesses and online shoppers.
- b. Emphasized the need for a niche marketplace for furniture.

#### 3. Solution:

a. Explained how Hekto addresses the identified problems through advanced technology and unique features.

#### 4. Market Opportunity:

- a. Shared data on the growth potential of the online furniture market.
- b. Highlighted trends favoring Hekto's business model.

#### 5. Product Features:

a. Demonstrated platform functionality with screenshots and live demos.

#### 6. Revenue Model:

a. Detailed monetization strategies, including commissions and subscription plans.

#### 7. Marketing Strategy:

a. Outlined plans for customer acquisition and retention.

## 8. **Team**:

a. Highlighted the team's skills and contributions to the project.

#### 9. Financial Projections:

a. Provided expected revenue, costs, and profitability forecasts.

#### 10. Call to Action:

Requested funding and partnerships for scaling operations.

# **Checklist for Day 7**

## **Deployment Checklist:**

- Configured environment variables:
  - Verified .env file setup with API keys and database credentials.
  - Uploaded securely to the Vercel dashboard.
- Enabled HTTPS and SSL certificates:
  - Activated HTTPS through Vercel's automatic SSL configuration.
  - Tested for secure communication on all routes.
- Tested production workflows:
  - Verified navigation and page rendering for all key routes (e.g., product pages, cart, checkout).

 Conducted end-to-end testing for user registration, login, and order placement.

## **Security Checklist:**

- Conducted penetration testing:
  - Used OWASP ZAP and Burp Suite to identify vulnerabilities such as SQL injection, XSS, and CSRF.
  - Focused on critical areas, including payment gateways and authentication endpoints.
- Implemented RBAC and encrypted sensitive data:
  - o Established role-based access control for admin, seller, and customer roles.
  - Used bcrypt for password hashing and AES encryption for sensitive data.
- Scheduled periodic audits:
  - Set quarterly penetration tests and security reviews.
  - o Automated monitoring using Snyk for dependency vulnerability detection.

#### **Post Go Live Checklist:**

- Launched marketing campaigns:
  - o Created targeted ad campaigns (SEO, email, and paid ads).
  - o Collaborated with influencers to boost visibility.
  - Set up referral programs to increase customer engagement.
  - Launched initial campaigns on Facebook, Instagram, and Google Ads.
- Collaborated with potential investors:
  - o Prepared and presented the business pitch deck.
  - Scheduled meetings with early-stage investors and venture capital firms.
  - o Finalized agreements on equity and responsibilities.
- Automated inventory management:
  - Configured automated stock updates through Sanity CMS.
  - Implemented notifications for low inventory levels.
  - Integrated demand forecasting tools for better stock planning.

## **Final Notes and Gratitude**

This hackathon journey has been a transformative experience, evolving from a concept to a fully functional marketplace. The support and guidance from mentors, peers, and the entire team have been invaluable.

#### Key Takeaways:

- 1. The importance of structured workflows and iterative development.
- 2. Practical experience with modern tools like **Next.js**, **Sanity CMS**, and **Vercel**.
- 3. A deeper understanding of post-launch strategies for business growth.

#### **Gratitude:**

A heartfelt thank you to our mentors, teaching assistants, and peers for their unwavering support throughout this journey. A special mention and deepest gratitude to **Sir Ameen** for his guidance, inspiration, and invaluable insights, which were pivotal to the success of this project.

This project stands as a testament to collaborative effort and determination.

Together, we've built not just a marketplace but a foundation for future innovations. The Hekto Marketplace is live and ready to make its mark in the e-commerce world!

#HackathonComplete #Day7 #Hekto #LiveDeployment #ECommerceSuccess