DAY 7 - LIVE DEPLOYMENT AND POST-LAUNCH PRACTICES

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First published: PKT 11:08 AM, January 15, 2025

Document Revision Information

Version	Date	Amendment	Author
1.0	11:08 AM, January 15, 2025	Initial release of Day1	Ameen Alam
1.1	03:00 PM, January 15, 2025	Added Examples in Day1	Ameen Alam
2.0	01:00 PM, January 16, 2025	Day 2 Release	Ameen Alam
2.1	02:00 PM, January 17, 2025	Self-Validation Checklist	Ameen Alam
3.0	04:00 PM, January 17, 2025	Day 3 Release	Ameen Alam
3.1	08:30 PM, January 17, 2025	Minor correction in link	Ameen Alam
4.0	04:00 AM, January 19, 2025	Day 4 Release	Ameen Alam
5.0	02:30 AM, January 20, 2025	Day 5 Release	Ameen Alam
5.1	03:00 AM, January 20, 2025	Test Case Report Sample	Ameen Alam
6.0	03:10 AM, January 21, 2025	Day 6 Release	Ameen Alam
7.0	11:30 PM, January 21, 2025	Day 7 Release	Ameen Alam

Table of Contents

Day 6 Recap:

Day 6 focused on staging deployment and pre-launch readiness. Students prepared their marketplace for a live environment by setting up staging environments, running comprehensive tests, and ensuring compatibility across devices and browsers. Key activities included:

1. Conducting website performance testing to optimize load times and responsiveness.

2. Documenting all test cases, including successes and failures, in professional test reports.

3. Validating the integration of all marketplace components, ensuring seamless functionality.

4. Gaining hands-on experience with deployment tools and understanding the importance of a structured workflow for staging.

By the end of Day 6, students had their projects ready for the final step of live deployment, equipped with testing reports and performance benchmarks.

Day 7 - Live Deployment and Post-Launch Practices

Objective:

Day 7 is the final step of the hackathon, where students will deploy their marketplace to a live production environment, consolidating all the work completed in the previous days to create a fully functional and customer-ready platform. This stage focuses on following industry-standard best practices for deployment, ensuring security, scalability, and operational readiness. Additionally, the document will guide students on post-launch steps, including branding, marketing, and business partnerships, while emphasizing the importance of staying on the technology track.

Key Learning Outcomes:

1. Successfully deploy a fully functional marketplace to a live production environment.

2. Implement best practices for production deployment, including security, monitoring, and disaster recovery (DR) planning.

3. Understand the importance of post-launch activities such as branding, marketing, and investor partnerships.

4. Learn about contracts and agreements with investors, ensuring alignment with business goals and legal standards.

5. Prepare for future AI Agent implementation in the marketplace.

6. For job-oriented students, develop a strong portfolio and coding interview skills.

Go Live Practices:

1. Production Deployment

- **Environment Setup:**

  o Configure production environment variables securely.

  o Ensure all sensitive data (e.g., API keys, database credentials) is encrypted and stored securely.

- **Secure Hosting:**

  o Use reliable hosting platforms like AWS, Azure, or Vercel.

  o Enable HTTPS for all traffic using SSL certificates.

- **Codebase Management:**

  o Keep the production repository private to protect trade secrets and sensitive code.

  o Separate staging and production repositories for better environment management.

  o Document each step of your deployment process for reference in future projects.

2. Penetration Testing and Security

- **Penetration Testing:**

  o Test the application for vulnerabilities such as SQL injection, XSS, CSRF, and more.

  o Use tools like OWASP ZAP or Burp Suite to identify and mitigate risks.

  o Prioritize testing based on critical areas of your marketplace, such as payment systems, login authentication, and sensitive data handling.

  o Focus on vulnerabilities that could compromise customer trust or operational efficiency.

- **Data Encryption:**

- o Encrypt sensitive user data (e.g., passwords, payment details) using strong encryption standards.

- o Ensure secure data storage and transmission.

- **User Management:**

  - o Implement role-based access control for employees.

  - o Maintain a separate admin dashboard to avoid exposing admin functionalities to the public.

- **Periodic Testing:**

  - o Schedule recurring security audits to ensure the marketplace remains protected.

3. Disaster Recovery (DR) Planning

- **Backup Strategy:**

  - o Schedule regular backups of databases and key assets.

  - o Store backups in multiple secure locations to prevent data loss.

- **DR Environment:**

  - o Create a DR plan to restore operations in case of failure.

  - o Test the DR environment periodically to ensure reliability.

  - o Establish a chain of responsibility for DR implementation.

4. Monitoring and Maintenance

- **Monitoring Tools:**

  - o Use tools like Google Analytics, Sentry, and Pingdom for real-time monitoring and issue tracking.

- **Performance Optimization:**

  - o Regularly monitor site performance and optimize speed and reliability.

- **Issue Management:**

  - o Maintain a detailed log of bugs and issues for continuous improvement.

- **Scheduled Maintenance:**

  - o Plan downtime for updates and inform customers in advance.

Post Go Live Practices:

Launching your marketplace is an exciting milestone, but sustaining long-term success requires careful planning and execution of post-launch practices. These practices are crucial for maintaining operational efficiency, ensuring security, and driving business growth.

1. Branding and Marketing

- **Branding:**
    - Design a professional logo and brand identity for your marketplace.
    - Create a strong social media presence to attract customers.
- **Marketing:**
    - Use paid ads, SEO, and email campaigns to reach your target audience.
    - Collaborate with influencers or partners to boost visibility.
    - Launch promotions or referral programs to increase customer engagement.

2. Investor Partnerships

- **Finding Investors:**
    - Pitch your marketplace to potential investors for funding.
    - Highlight your technology, scalability, and business potential.
- **Contract Practices:**
    - Clearly define the terms of partnership, including equity sharing, roles, and responsibilities.
    - Ensure that contracts align with your long-term goals and seek legal advice if needed.
    - Specify timelines, financial expectations, and deliverables in agreements.

3. Inventory and Resource Management

- **Inventory Planning:**
    - Collaborate with investors to stock inventory based on demand forecasts.
    - Automate inventory tracking for efficiency.
- **Resource Allocation:**

- o Allocate resources for data entry, order fulfillment, and customer support.
- o Hire specialized roles, such as marketing managers or inventory specialists.

Career Guidance for Students:

Note: Consider revisiting your hackathon projects as portfolio pieces for future job interviews or business pitches. Highlight your achievements and the technology stack you used to demonstrate your expertise.

For Business-Oriented Students:

- Focus on launching your marketplace successfully and growing your business.
- Develop partnerships with investors to handle inventory, marketing, and operations.
- Stay on the technology track and implement future AI Agent features in your business.
- Build a roadmap for scaling your business, including international market entry.

For Job-Oriented Students:

- **Coding Practice:**
  - o Regularly practice coding interviews on platforms like LeetCode, HackerRank, or Codewars.

- **Resume Building:**
  - o Create a professional resume tailored to your skills and projects.

- **Portfolio Development:**
  - o Build a strong LinkedIn profile showcasing your marketplace and hackathon achievements.
  - o Share your portfolio on GitHub and other professional platforms.

- **Local Market Opportunities:**
  - o Reach out to local businesses to build marketplaces and earn practical experience.

Submission Requirements:

For Day 7, students will submit their **Business Pitch Deck** and **Resume PDF Link** in the provided form. This submission will help them prepare for future presentations and professional opportunities.

1. **Pitch Deck Link:**

    o Provide a link to your business pitch deck, summarizing your marketplace, problem statement, solution, and business plan.

2. **Resume Link:**

    o Submit a professional resume link showcasing your skills, hackathon achievements, and portfolio.

Deadline: 8 February 2025, by 11:59 PM - Keep Working - We will build Ecommerce AI Agent in the Future.

Day 7 marks the beginning of your marketplace's real-world journey, and it will continue until you achieve your first success in business. Continue refining your platform and focus on long-term goals. Moving forward, focus on:

1. Expanding and improving your marketplace.

2. Collaborating with business partners who will manage inventory, sales, and marketing.

3. Starting your Python learning journey in preparation for AI classes.

Submission Form Link:

https://forms.gle/nA5Lv867KpaV659r7

Business Pitch Deck and Presentation:

You will prepare a professional business pitch deck to present your marketplace ideas to potential investors, partners, and mentors. The pitch deck should include:

1. **Introduction:**

    o Marketplace name and tagline.

    o Overview of your business idea and vision.

2. **Problem Statement:**

    o Identify the problem your marketplace aims to solve.

- o Use data and examples to emphasize the importance of addressing this issue.

3. **Solution:**

- o Explain how your marketplace provides a unique and effective solution.

4. **Market Opportunity:**

- o Showcase the target market size and growth potential.

- o Highlight any key trends or insights.

5. **Product:**

- o Demonstrate the features of your marketplace.

- o Include screenshots or live demos of your platform.

6. **Business Model:**

- o Describe how your marketplace will generate revenue (e.g., commissions, subscriptions).

7. **Marketing Strategy:**

- o Explain how you plan to acquire and retain customers.

8. **Team:**

- o Highlight the key members and their roles.

9. **Financial Projections:**

- o Provide a brief overview of expected revenue and costs.

10. **Call to Action:**

- o Clearly state what you're asking for (e.g., funding, partnerships).

Prepare to present this pitch in future sessions. Use it as an opportunity to refine your business vision and strategy.

Checklist for Day 7:

Deployment Checklist:

- • ✓ ✗

Security Checklist:

- • ✓ ✗

Post Go Live Checklist:

- ✓ ✗

Business Pitch Deck:

- ✓ ✗

Resume PDF:

- ✓ ✗

Gratitude and Positive Gestures:

We encourage every student to write a single-line thank-you note for their teachers, teaching assistants, student leaders, senior students, and rising stars. Mention their names and acknowledge their contributions. During the last class, hand over these notes as a token of gratitude. Always show a positive gesture and ensure a warm and respectful see-off for everyone, leaving a lasting impression of goodwill.

Final Notes: A Journey of Success and Values **– Share this on your social network to serve as a lasting reminder of your journey and inspire others to follow in your footsteps.**

"11 months ago, you stepped into the Governor House classes with dreams in your eyes and ambition in your heart. Today, as you stand at the brink of launching your own marketplace, remember that this journey was not yours alone. It was made possible by the tireless efforts of your **faculty members, who volunteered their time and expertise without any financial commitment, solely for your success.** Their hard work and dedication were driven by a shared vision for your future.

Make a promise today: you will not let them or yourself down. Carry these four values with you wherever you go: **Credibility, Transparency, Honesty, and Quality.** These are the pillars of true success.

Keep learning, keep growing, and inspire others to do the same. Together, we will build a successful Pakistan. We will build unicorns, establish thriving businesses, and send

remittances to strengthen our nation. The future of Pakistan lies in your hands, and your success is our greatest return."

FAQs:

1. **Why is a separate admin dashboard recommended?**

   o It enhances security by restricting access to admin functionalities.

2. **What tools should I use for monitoring?**

   o Google Analytics, Sentry, and Pingdom are great options for real-time monitoring and error tracking.

3. **How can I find investors for my marketplace?**

   o Create a business pitch highlighting scalability and potential returns. Leverage platforms like LinkedIn or startup events.

4. **What should I prioritize post-launch?**

   o Focus on customer acquisition, branding, and building a reliable team for operations.

5. **Can I join a job instead of starting a business?**

   o Yes, building a career in the industry is a great way to gain real-world experience. Prepare for coding interviews, build your portfolio, and apply to roles that align with your skills.

6. **What is disaster recovery, and why is it important?**

   o Disaster recovery involves creating a plan to restore operations in case of unexpected failures. It ensures business continuity and data protection.

7. **What should a post-launch branding strategy include?**

   o A strong logo, a consistent social media presence, and targeted marketing campaigns.

8. **How do I ensure my marketplace is scalable?**

   o Use cloud-based services, modular architecture, and implement auto-scaling solutions.

9. **What are some common vulnerabilities in marketplaces?**

   o Weak authentication, unsecured APIs, and improper input validation are common vulnerabilities.

10. **How can I secure customer data?**

    o   Use encryption for data storage and transmission, and regularly audit your security measures.

11. **What is role-based access control (RBAC)?**

    o   RBAC restricts system access based on the roles of individual users, enhancing security by minimizing unnecessary access.

12. **What is the importance of customer feedback post-launch?**

    o   Feedback helps identify issues and improve user experience, leading to better retention and growth.

13. **Should I hire a marketing team after launching?**

    o   Yes, a marketing team can help attract and retain customers through targeted campaigns and promotions.

14. **What should I include in my pitch deck for investors?**

    o   Problem statement, solution, market opportunity, product features, revenue model, and financial projections.

15. **How can I improve site performance?**

    o   Optimize images, use content delivery networks (CDNs), and minimize JavaScript and CSS.

16. **What is A/B testing, and how can it help?**

    o   A/B testing involves comparing two versions of a webpage or feature to determine which performs better, improving customer experience.

17. **What is the purpose of staging environments?**

    o   Staging environments mimic production to test changes before deployment, reducing the risk of live issues.

18. **How do I manage inventory efficiently?**

    o   Use inventory management software, automate stock tracking, and forecast demand based on historical data.

19. **Can I integrate third-party APIs post-launch?**

    o   Yes, integrating APIs for payment gateways, shipping, or analytics can enhance functionality and improve operations.

20. **What are key performance indicators (KPIs) for my marketplace?**

- Traffic, conversion rate, average order value (AOV), and customer lifetime value (CLV).

21. **Why is a separate admin dashboard recommended?**

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