

**DAY 7 - LIVE DEPLOYMENT AND POST-LAUNCH PRACTICES**

**E-Commerce Website**

**Product: Pudding & Jelly Powders**

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**Day/Time: Friday – 09:00 – 12:00**

**Teacher: Sir Hamzah Syed**

**Steps for Day 7:**

**Go Live Practices:**

**1. Production Deployment**

**Environment Setup:**

* Configure production environment variables securely.
* Ensure all sensitive data (e.g., API keys, database credentials) is encrypted and stored securely.

**Secure Hosting:**

* Use reliable hosting platforms like AWS, Azure, or Vercel.
* Enable HTTPS for all traƯic using SSL certificates.

**Codebase Management:**

* Keep the production repository private to protect trade secrets and sensitive code.
* Separate staging and production repositories for better environment management.
* Document each step of your deployment process for reference in future projects.

**2. Penetration Testing and Security**

**Penetration Testing:**

* Test the application for vulnerabilities such as SQL injection, XSS, CSRF, and more.
* Use tools like OWASP ZAP or Burp Suite to identify and mitigate risks.
* Prioritize testing based on critical areas of your marketplace, such as payment systems, login authentication, and sensitive data handling.
* Focus on vulnerabilities that could compromise customer trust or operational eƯiciency.

**Data Encryption:**

* Encrypt sensitive user data (e.g., passwords, payment details) using strong encryption standards.
* Ensure secure data storage and transmission.

**User Management:**

* Implement role-based access control for employees.
* Maintain a separate admin dashboard to avoid exposing admin functionalities to the public.

**Periodic Testing:**

* Schedule recurring security audits to ensure the marketplace remains protected.

**3. Disaster Recovery (DR) Planning**

**Backup Strategy:**

* Schedule regular backups of databases and key assets.
* Store backups in multiple secure locations to prevent data loss.

**DR Environment:**

* Create a DR plan to restore operations in case of failure.
* Test the DR environment periodically to ensure reliability.
* Establish a chain of responsibility for DR implementation.

**4. Monitoring and Maintenance**

**Monitoring Tools:**

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

**Performance Optimization:**

* Regularly monitor site performance and optimize speed and reliability.

**Issue Management:**

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

**Scheduled Maintenance:**

* Plan downtime for updates and inform customers in advance

**Checklist for Day 7:**

* Deployment Checklist:

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* Security Checklist:

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* Post Go Live Checklist:

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* Business Pitch Deck:

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* Resume PDF:

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