

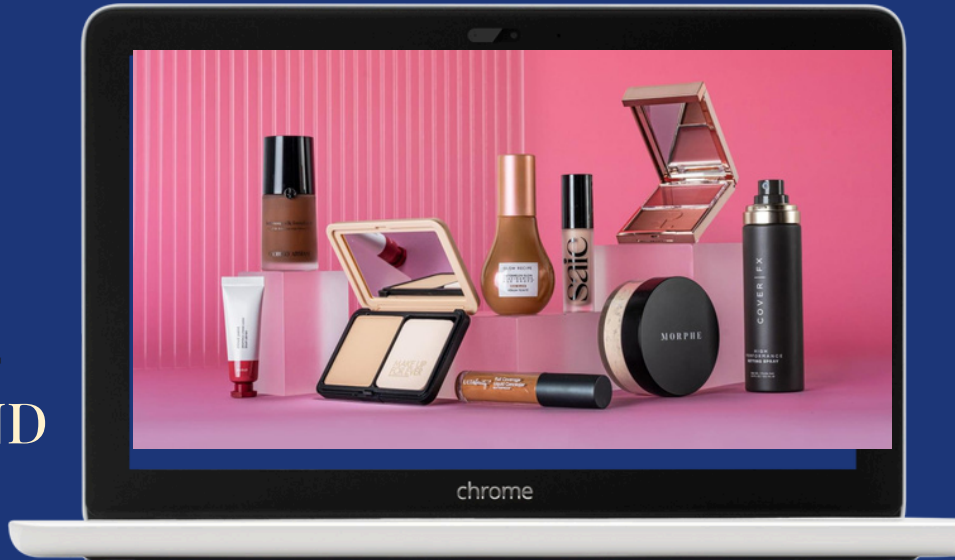
Prepared by  
Osama Hassan

# Hackathon Day 6

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DEPLOYMENT PREPARATION AND  
STAGING ENVIRONMENT SETUP

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# Overview

This document covers the steps required

**to prepare for deployment**

**Beauty Marketplace**

setting up a staging environment and

conducting detailed tests before the first production deployment. The purpose is to

ensure that the application is fully functional, bug-free, and ready for deployment on live servers.

# Deployment Preparation and Staging Environment

## 1. Code Review & Final Adjustments

- Code Review: Ensure clean, well-documented code and remove unnecessary dependencies.
- Version Control: Use Git for version tracking and create a release branch.
- Environment Variables: Verify correct API keys, credentials, and no hardcoded sensitive data.
- Optimizing Assets: Minify files and remove unused assets.
- Cross-Browser Testing: Ensure compatibility across browsers (Chrome, Firefox, Safari).
- Security Checks: Address vulnerabilities like XSS, CSRF, SQL injections, and enable HTTPS.

## 2. Staging Environment Setup

- Clone Production Environment: Use a staging server with the same setup as production.
- CI/CD Pipeline: Set up CI/CD using tools like Jenkins, GitHub Actions.
- Versioning: Tag releases for version control.

## 3. Deploying to Staging

- Build the Application: Use `npm run build` for frontend frameworks.
- Deploy Code to Staging: Push code using Git, Docker, or Kubernetes.
- Database Migration: Apply schema changes to staging database.

# Deployment Preparation and Staging Environment

## 4. Testing Before Final Deployment

### Problem statement

Functional Testing: Verify features like user authentication, product listings, checkout, and admin dashboard.

State the problem you are solving

Non-Functional Testing: Conduct performance, security, usability, and cross-browser testing.

in one or two sentences.

## 5. Final Deployment to Production

Make sure to explain why it is a real problem.


- Backup Production Data: Backup before deployment.
- Deploy to Production: Use the same process as staging.
- Monitor Deployment: Track errors and performance.
- User Communication: Notify users about deployment and release notes.

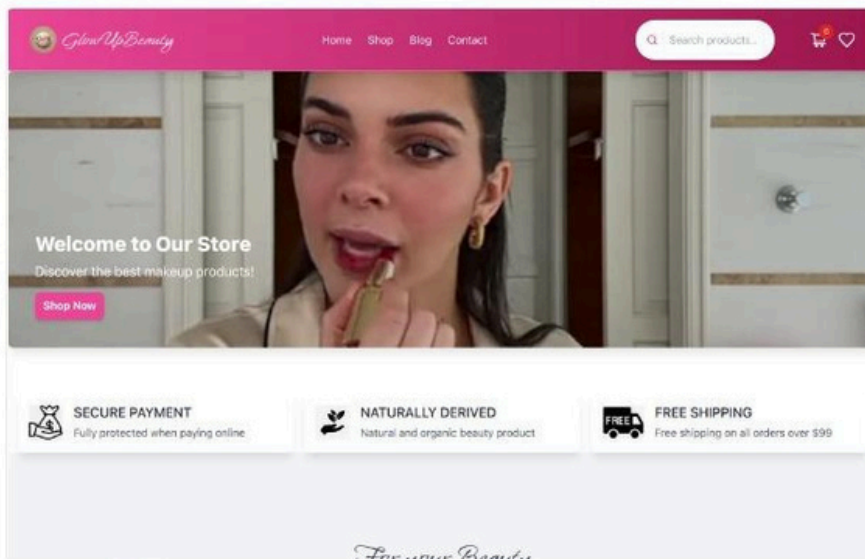
## 6. Post-Deployment Testing

- Smoke Testing: Ensure app functionality in production.
- User Feedback: Collect feedback to ensure good user experience.
- Continuous Monitoring: Monitor errors, performance, and user activity.

[Feedback](#)[Changelog](#)[Help](#)[Docs](#)

## Congratulations!

You just deployed a new project to  sakeenamajeed's projects.



## Vercel link

<https://glow-up-beauty.vercel.app/>

## Github Link

<https://github.com/SakeenaMajeed/GlowUpBeauty>

*Thank you*

By Sakeena Majeed