

Day 6: Deployment Preparation and Staging Environment Setup

Slide 1: Title Slide

- **Title:** Deployment Preparation and Staging Environment Setup
- **Subtitle:** Day 6 Overview
- **Date:** January 21, 2025
- **Prepared By:** Muhammad Qasim

Slide 2: Objective

- Prepare the marketplace for deployment.
- Set up a staging environment.
- Ensure readiness for a customer-facing application.
- Build on testing and optimization efforts from previous stages.

Slide 3: Key Learning Outcomes

1. Configured a staging environment using platforms like **Vercel**.
2. Linked GitHub repository to hosting platform for seamless integration.
3. Ensured secure setup of environment variables.
4. Validated application functionality in a production-like setting.
5. Conducted rigorous testing and documented results.

Slide 4: Environment Management

- **TRN (Training)**: Practice and onboarding.
- **DEV (Development)**: Local code writing and testing.
- **SIT (System Integration Testing)**: Validate system integrations.
- **UAT (User Acceptance Testing)**: Stakeholder validation.
- **PROD (Production)**: Live environment for users.
- **DR (Disaster Recovery)**: Backup for critical issues.

Slide 5: Deployment Strategy

- Selected **Vercel** as the hosting platform.
- Configured environment variables using secure dashboards.
- Planned seamless interaction with backend services like Sanity CMS.
- Deployed application to staging environment.

Slide 6: Testing Highlights

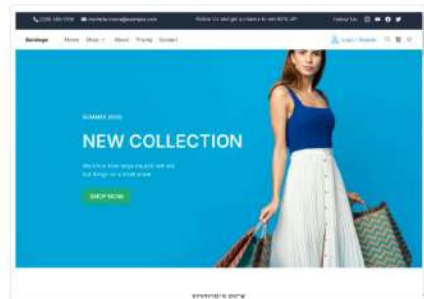
- **Functional Testing**: Verified product listings, search, and cart operations.
- **Performance Testing**: Utilized **Lighthouse** and **GTmetrix**.
- **Security Testing**: Ensured HTTPS usage, secure APIs, and input validation.
- Documented results in professional test case reports.

Mobile Desktop



Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

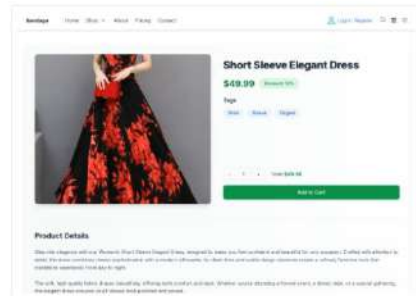


Mobile Desktop



Performance

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Slide 7: Documentation and Organization

- Created a comprehensive **README.md**.
- Organized project files in a clear folder hierarchy:
 - `documents/`
 - `src/`
 - `public/`
- Included:
 - Test case reports (CSV format).
 - Performance reports.
 - Deployment instructions.

Slide 8: Key Achievements and Next Steps

- Successfully deployed a staging environment.
- Validated deployment readiness with detailed testing.
- **Next Steps:**
 - Resolve documented issues.
 - Transition to production deployment.
 - Continue refining for optimal user experience.