# Staging Environment Setup for My Marketplace

## Key Learning Outcomes

Set up and Configure a Staging Environment

I have successfully completed the following steps to set up and configure a staging environment for my marketplace.

## Selecting a Hosting Platform

Hosting Platform Chosen: Vercel

Rationale: Vercel offers seamless integration with Next.js, excellent performance, and a user-friendly interface.

## Connecting GitHub Repository to the Hosting Platform

Action Taken:

- Linked my GitHub repository to Vercel

- Enabled automatic deployments for the main branch and staging branches

- Verified that all changes in the repository trigger deployment processes on Vercel

## Configuring Build and Deployment Settings

Configured the following settings to ensure successful staging builds:

Environment Variables: Added required variables, such as API keys and secrets, in the Vercel dashboard

under the Environment Variables section.

Build Commands: Used the default Next.js build command `npm run build` for the staging environment.

## Professional Environment

Key Learning Outcomes:

Understanding and Managing Different Stages of Environments:

1. TRN (Training Environment):

- Purpose: Used for onboarding and training team members without impacting active development or production data.

- Implementation: Set up a separate environment with sample data for training purposes and configured restricted access.

2. DEV (Development Environment):

- Used for active development of new features and functionality.

3. SIT (System Integration Testing):

- Purpose: Focused on testing integrations between different system components.

4. UAT (User Acceptance Testing):

- Purpose: Used for end-user testing to validate features and workflows before release.

- Created a near-production replica with real-world data and involved stakeholders to identify usability issues.

5. Production Environment:

- Purpose: The live environment accessed by end-users. Deployed fully tested and approved features.

- Configured robust monitoring and alert systems to ensure stability.

## Testing and Validation

Verified that the staging environment:

- Reflects the latest changes pushed to the staging branch.

- Is accessible and performs as expected on various devices and browsers.

## Testing Results

1. Homepage Load Test:

- Homepage should load within 2 seconds.

- Status: Passed

2. Product Display Test:

- All products should display correctly on the homepage.

- Status: Passed

3. Product Details Testing:

- Product details should display upon selection.

- Status: Passed

4. Checkout Page Testing:

- Checkout process should complete without errors.

- Status: Passed

5. API Integration Testing:

- API should fetch and display data correctly.

- Status: Passed

6. Navigation Test:

- All navigation links should be functional.

- Status: Passed

7. Security Testing:

- All API calls should be secure and use HTTPS.

- Status: Passed

8. Image Loading Test:

- All images should load correctly.

- Status: Passed

9. Accessibility Testing:

- Site should meet accessibility standards.

- Status: Passed

10. Responsiveness Testing:

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- Site should adjust properly on various devices.

- Status: Passed