

# **Staging Environment Setup for My Marketplace**

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- **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 userfriendly 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 }**

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**• PROFESSIONAL ENVIRONMENT : {**

Key Learning Outcomes

Understanding and Managing Different Stages of Environments

I have successfully learned and applied professional environment management, which includes the following stages:

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.

Configured restricted access to ensure that trainees cannot affect other environments.

DEV (Development Environment)

Used for active development of new features and functionality }

• **IMPLEMENTATION OF GIT :** {

Configured the environment to use local or mocked services for quick iteration.

Ensured seamless integration with version control (GitHub repository).

SIT (System Integration Testing)

Purpose: Focused on testing integrations between different system components }

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• **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**

**Involved stakeholders and testers to identify usability issues }**

• **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.**

**Additional Practices**

**Version Control: Established branching strategies (eg. main staging feature/" ) for smooth transitions between environments.**

**Environment-Specific Configurations: Used env files and Vercel's environment variable management to ensure accurate setup for each stage.**

**Monitoring: implemented logging and monitoring tools to track performance and errors in SIT, UAT, and PROD }**

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**• 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 : {**

**Test Case Description**

**Expected Result**

**Actual Result**

**Status**

**Remarks**

**TST-001 }**

**• Homepage Load Test : {**

**Homepage should load within 2 seconds**

**Homepage loaded within 2 seconds**

**Passed }**

**• Display : {**

**TST-002**

**Product display Test**

**All should be displayed correctly on the homepage**

**All products displayed correctly**

**Passed**

**No Issues found**

**TST-003 }**

**• Product details Testing : {**

**Car details should display upon selection**

**Car details displayed correctly**

**Passed**

**Showing Correctly**

**TST-004 }**

**• Checkout Page Testing : {**

**Checkout process should complete without errors**

**Checkout completed successfully**

**Passed**

**Successfully**

**TST-005 }**

**• API Integration Testing : {**

**API should fetch and display data correctly**

**API fetched and displayed data as expected**

**Passed**

**Working Properly**

**TST-006 }**

• **Navigation Test : {**

**All navigation links should be functional**

**All navigation links work correctly**

**Passed**

**Working Properly**

**TST-007 }**

• **Security Testing : {**

**All API calls should be secure and use HTTPS**

**All API calls are secure and use HTTPS**

**Passed**

**Working Properly**

**TST-008 }**

• **Image Loading Test : {**

**All car images should load correctly**

**All car images loaded without issues**

**Passed**

**Working Properly**

**TST-009 }**

• **Accessibility Testing : {**

**Site should meet accessibility standards**

**Site meets all accessibility standards**

**Passed**

**Working Properly**

**TST-010 }**

**• Responsiveness Testing : {**

**Site should adjust properly on various devices**

**Site adjusted properly on all tested devices**

**Passed }**

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**( NOW THE WEBSITE DISPLAY ON VERSEL )**