

## 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 ope 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 )**