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 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 }

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 }

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

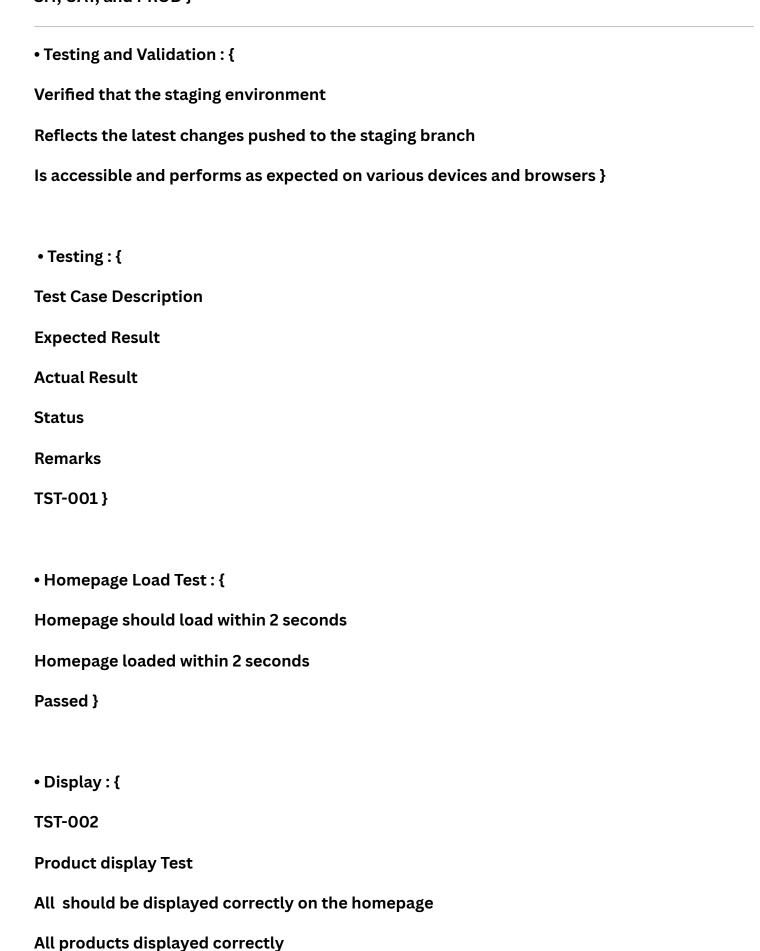
Configured robust monitoring and alert systems to ensure stability.

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 }



```
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 }

(NOW THE WEBSITE DISPLAY ON VERSEL)