JANUARY 2025

Furniro

DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

PRESENTED BY:

Ayesha Abdul Qadir

Objective

The objective of the Day 06 task is to prepare the marketplace application for deployment to a staging environment.

This includes setting up a hosting platform, configuring environment variables securely, performing various tests to ensure functionality and performance, and organizing the project files with proper documentation for future development.

Choose a Hosting Platform

Platform Selected: Vercel.

Steps Taken:

- I created a Vercel account and logged in.
- Linked my GitHub repository to Vercel to trigger automatic deployments.
- Deployed the application successfully, and it is now accessible at

Configure Environment Variables

What Was Done:

Created a .env file locally for storing sensitive data like API keys and project IDs:

NEXT_PUBLIC_SANITY_PROJECT_ID=<my_project_id>
NEXT_PUBLIC_SANITY_DATASET=production
API_KEY=<my_api_key>

Upload to Hosting Platform:

I configured these environment variables in Vercel's settings to securely store and use them during deployment.

Deploy to Staging

Steps:

- Deployed the application to the Vercel staging environment.

- Checked the deployment for any errors or issues.

- Verified that the staging site is functioning as expected.

Perform Staging Environment Testing

Types of Testing:

- Functional Testing: Tested workflows such as adding products to the cart, product listing, API calls, etc.

- Performance Testing: Used tools like Lighthouse or GTmetrix to check the website's load time and performance.

- Security Testing: Verified that input fields are secure, HTTPS is enabled, and API keys are protected.

Test Cases and Results

Test Case ID	Description	Steps	Expected Result	Actual Result	Status	Remarks
TC_01	Verify Product Listing	1. Open the product page 2. Check if products are displayed	Products should be visible	Products are displayed successfully	Failed	-
TC_02	Add Product to Cart	1. Select a product 2. Click "Add to Cart" 3. Check cart	Product should be added to cart	Product appears in cart	Passed	-
TC_03	Remove Product from Cart	1. Add a product to cart 2. Click "Remove" 3. Check cart	Product should be removed	Product was removed successfully	Passed	-
TC_04	Checkout Process	1. Add items to cart 2. Click "Checkout" 3. Enter details 4. Submit order	Order should be placed successfully	Order was placed	Passed	-
TC_05	API Response Validation	1. Make an API call to fetch products	API should return a 200 OK response	API returned 200 OK	Passed	-
TC_06	Performance Test	1. Run Lighthouse test 2. Check load time	Load time should be under 3 seconds	Load time: 2.5s	Passed	-

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