E-commerce Website Testing Report

Project Overview:

- **Project Name:** Furnish & Find
- **Date:** Feb 1, 2025
- **Summary:**
  This report presents a detailed overview of the test cases executed on the e-commerce website. It covers the functionalities tested, their respective outcomes (success or failure), and the challenges encountered along with the corresponding resolutions implemented to address those issues.

Test Cases:

Test Case ID	Description	Status	Problems Faced	Resolution
1	Dynamic Product Display from Sanity after Vercel deployment	✅ Success	Products initially not displaying after deployment.	Issue identified and resolved. Incorrect API endpoint configuration in production fixed by updating environment variables.
2	Search bar functionality - product search and display	✅ Success	Products searchable, but search button not functioning.	Issue identified and resolved. Missing event handler added to the search button.
3	"Add to Cart" button functionality on dynamic product pages	✅ Success	Amounts added to cart resulting in "NaN" values.	Issue identified and resolved. Quantity converted to a number before calculations.
4	Mobile Responsiveness - overall layout and functionality	✖ Failed	Empty spaces appearing due to excessive top bar length, causing main page unresponsiveness.	Partial progress made. Top bar height reduced using CSS media queries. Further refactoring of the top bar component needed for a more responsive layout.

Detailed Test Case Descriptions and Results

1. Dynamic Product Display from Sanity

Description:
This test case verifies that products stored in the Sanity CMS are correctly fetched and displayed on the website after deployment to Vercel.

Test Steps:

1. Deploy the website to Vercel.
2. Navigate to the product display page.
3. Check if the products from Sanity are displayed correctly with their details (name, image, price, etc.).

Result: ✓Success.
Initially, products were not displayed after deployment due to an incorrect API endpoint configuration in the production environment. The issue was identified and resolved by updating the environment variables with the correct API URL.

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2. Search Bar Functionality

Description:
This test case ensures the proper functionality of the search bar, allowing users to search for products and view relevant results.

Test Steps:

1. Enter a product name or keyword in the search bar.
2. Click the search button.
3. Verify that the relevant products are displayed in the search results.

Result: ✓Success.
The search functionality worked as expected, and products were searchable and displayed correctly. Initially, the search button was non-functional due to a missing event handler. This issue was resolved by adding the necessary event listener.

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3. "Add to Cart" Button Functionality

Description:
This test case evaluates the "Add to Cart" functionality on dynamic product pages to ensure that products are accurately added to the shopping cart.

Test Steps:

1. Navigate to a dynamic product page.

2. Click the "Add to Cart" button.
3. Verify that the product is added to the cart and the cart count updates correctly.

Result: ✓Success.
The "Add to Cart" button worked correctly, and products were added to the cart successfully. Initially, an issue occurred where the quantities were treated as strings, causing "NaN" errors. This was resolved by converting the quantity to a number before performing the calculations.

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4. Mobile Responsiveness

Description:
This test case assesses the mobile responsiveness of the website across various devices and screen sizes. It ensures that the layout and functionality remain user-friendly and consistent.

Test Steps:

1. Access the website on various mobile devices or use browser developer tools to simulate different screen sizes.
2. Navigate through different pages.
3. Check for layout issues, overlapping elements, and usability problems.

Result: ✗Failed.
The mobile responsiveness was inadequate due to empty spaces caused by an excessively long top bar, resulting in significant unresponsiveness across the main pages. Partial progress was made by reducing the top bar height using CSS media queries. However, further improvements are necessary, including a full refactoring of the top bar component to create a more responsive layout approach.

This document captures the detailed results of the test cases executed and highlights both the successes and challenges faced during the testing process. Ongoing improvements are planned to address the issues encountered during testing, with particular emphasis on improving mobile responsiveness.