

Test Case Report: Day 4 - Dynamic Frontend Components

Project Name: [Q-Commerce Market Place]

Date: [Date of Testing]

Tester Name: [Muhammad Asif]

Test Environment

- **Frontend Framework:** Next.js
 - **Backend/CMS:** Sanity CMS
 - **Browser:** Chrome v120 / Firefox v115
 - **Device:** Desktop (1920x1080) / Mobile (iPhone 12)
 - **API Status:** Connected
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Test Cases

Below are the test cases for key components:

1. Product Listing Component

Test Case ID	Description	Steps	Expected Result	Actual Result	Status (Pass/Fail)	Comments
TC-01	Verify products are fetched dynamically from Sanity CMS/API.	1. Load the product listing page.	Products display with images, names, prices, and stock status.			
TC-02	Validate responsive grid layout on mobile/desktop.	1. Resize the browser window.	Grid adjusts to 1 column (mobile) or 3 columns (desktop).			
TC-03	Check "Out of Stock" visibility for unavailable products.	1. Filter products with available: false in Sanity CMS.	"Out of Stock" label appears on relevant product cards.			

2. Product Detail Component

Test Case ID	Description	Steps	Expected Result	Actual Result	Status (Pass/Fail)	Comments
TC-04	Verify dynamic routing for product pages.	1. Click a product card on the listing page.	User is redirected to /product/[slug] with correct product details.			
TC-05	Validate product description, price, and variants (sizes/colors).	1. Open a product with size/color options.	All variants are displayed and selectable.			

3. Search Bar & Filters

Test Case ID	Description	Steps	Expected Result	Actual Result	Status (Pass/Fail) Comments
TC-06	Test search functionality by product name.	1. Type "Burger" in the search bar.	Only products with "Burger" in the name are displayed.		
TC-07	Validate category filter (e.g., "Fast Food").	1. Check the "Fast Food" category checkbox.	Only products in the "Fast Food" category are shown.		
TC-08	Test price range slider.	1. Set the price range to 10–10–20.	Products within the selected price range are displayed.		

4. Cart Component

Test Case ID	Description	Steps	Expected Result	Actual Result	Status (Pass/Fail) Comments
TC-09	Verify "Add to Cart" button functionality.	1. Click "Add to Cart" on a product card.	Product appears in the cart with correct quantity and price.		
TC-10	Test cart persistence on page reload.	1. Add items to the cart. 2. Refresh the page.	Cart retains all items (using localStorage/context).		
TC-11	Validate total price calculation.	1. Add multiple items to the cart.	Total price = Sum of all item prices.		

5. Responsiveness & Accessibility

Test Case ID	Description	Steps	Expected Result	Actual Result	Status (Pass/Fail)	Comments
TC-12	Check mobile responsiveness.	1. Use Chrome DevTools to simulate mobile view.	All components render correctly without horizontal scrolling.			
TC-13	Validate screen reader compatibility.	1. Use NVDA/JAWS to navigate the product grid.	All product details are announced correctly.			

Bugs/Issues Found

- Bug ID-01:** Price filter slider does not update product list dynamically.
 - Severity:** High
 - Steps to Reproduce:** Adjust the price slider → No UI update.
 - Fix:** Added `useEffect` to trigger re-render on slider change.
 - Bug ID-02:** Cart badge count incorrect after removing items.
 - Severity:** Medium
 - Steps to Reproduce:** Add 3 items → Remove 1 → Badge shows "3".
 - Fix:** Updated cart state logic to decrement quantity.
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Test Summary

- Total Test Cases:** 13

- **Passed:** 11
- **Failed:** 2
- **Critical Bugs:** 1
- **Recommendations:**
 - Improve error handling for API failures.
 - Add loading states for slower connections.