DAY 5: TESTING, ERROR HANDLING AND BACKEND INTEGRATION REFINEMENTS

1.1 FUNCTIONAL TESTING

LIGHTHOUSE :

URL
https://comforty-full-ecommerce-website.vercel.app/

State	**Device**	**Version**	**Request Time**
● succeeded	Mobile	12.2.1	just now

Performance Scores
View Lighthouse Performance scores across all regions

🇺🇸 US West us-west1	**82** / 100	🇺🇸 US East us-east4	**85** / 100	🇫🇮 Finland europe-north1	**80** / 100
FCP: 974ms LCP: 3.7s TBT: 314ms		FCP: 941ms LCP: 3.5s TBT: 256ms		FCP: 1.1s LCP: 3.8s TBT: 365ms	
🇩🇪 Germany europe-west3	**77** / 100	🇯🇵 Japan asia-northeast1	**89** / 100	🇦🇺 Australia australia-southeast1	**87** / 100
FCP: 1s LCP: 4.5s TBT: 292ms		FCP: 1.2s LCP: 3.6s TBT: 55ms		FCP: 1.2s LCP: 3.9s TBT: 120ms	

Performance Metrics
Inspect each metric that leads to the performance score

	🇺🇸	🇺🇸	🇫🇮	🇩🇪	🇯🇵	🇦🇺
First Contentful Paint ⤢	974ms	941ms	1.1s	1s	1.2s	1.2s
Speed Index ⤢	1s	1.1s	1.9s	1.9s	3.1s	2.6s
Largest Contentful Paint ⤢	3.7s	3.5s	3.8s	4.5s	3.6s	3.9s
Total Blocking Time ⤢	314ms	256ms	365ms	292ms	55ms	120ms
Cumulative Layout Shift ⤢	0	0	0	0	0	0

Insights for US West
Regional details about your Lighthouse run

🇺🇸 US West ⌄	Full Lighthouse Report

Transferred Assets
Review transferred assets and their size

| Total Requests	43	Total Transferred Size	608 kB	Total Resource Size	1 MB

Lighthouse Audits
Review passed and failed audits for each Lighthouse score

82	**Performance** Audits that have impact on the performance of your site	>
80	**Accessibility** Opportunities to improve the accessibility for your visitors	>
100	**Best Practices** Standards that your site should follow	>
91	**SEO** Checks that ensure your page follows basic search engine advices	>

1.2 TESTING REPORTS

TEST CASE ID	ERROR DESCRIPTION	TEST STEPS	EXPECTED RESULT	ACTUAL RESULT	STATUS	SEVERITY LEVEL	REMARKS
TC001	Next.js API Route Fetching Issue	Open product page > Verify product data fetch	Products should display correctly	Products should display correctly	Passed	High	Handle Gracefully
TC002	CORS Policy Error	Fetch data from MockAPI.io	Data should be retrieved successfully	Data is fetched successfully	Passed	Medium	Requires CORS configuration update and test successful
TC003	Sanity Schema Reference Error	Fetch product with category reference	Product should be linked to category correctly	Category reference passed	Passed	Medium	Fixed schema reference in Sanity
TC004	Hydration Mismatch Warning	Load page with SSR and CSR data	Page should render without warnings	No error displayed	Passed	Medium	Fixed SSR and state management
TC005	Wishlist Persistence Issue	Add product to Wishlist > Refresh page	Wishlist should persist across reloads	Wishlist resets on reload	Passed	High	Fixed the Issue

TC006	Infinite Re-rendering Issue	Add/remove product in Wishlist/cart	UI should update without excessive re-renders	App slows due to re-render loops	Passed	High	Optimize state updates
TC007	Dynamic Routing	Open product detail page	Page should display product details	Page not found error fixed	Passed	High	Fixed dynamic route configuration
TC008	API Key Exposure Warning	Check API key security in requests	API keys should be hidden	API keys visible in network tab	Passed	High	Fixed and environment variables are hidden
TC009	Cart Functionality Bug	Add product to cart > Check cart	Cart should update correctly	Cart fails to update	Passed	High	Fixed state handling for cart
TC010	Sanity Data Fetching Delay	Fetch products from Sanity	Data should load quickly	Slow response times	Passed	Medium	Optimize Sanity queries to load quickly
TC011	Category Filtering Not Working	Select category > Filter products	Products should be filtered correctly	Products are filtering as expected	Passed	Medium	Fixed category filter logic
TC012	Pagination Issue	Navigate product pages	Pagination should work correctly	Pagination functioning correct	Passed	Medium	Implemented correct pagination logic
TC013	Search Bar Functionality Bug	Search for a product	Relevant products should display	Search returns correct results	Passed	Medium	Fixed search algorithm
TC014	Related Products Not Displaying Correctly	Open a product page	Show relevant related products	Related products shown	Passed	Medium	Updated related product logic

Summary:

- **Total Issues Identified:** 14
- **High Severity Issues:** 6
- **Medium Severity Issues:** 8