

Day 5 - Testing and Backend Refinement (Comforty)

Overview

Today, I have completed the final rounds of testing, error handling, and backend integration refinements for the Comforty Marketplace. This platform specializes in offering a wide variety of stools, chairs, and sofas. The objective was to ensure that all website components functioned smoothly, were optimized for speed, and were ready for real-world deployment.

Overview of Tasks Completed:

Functional Testing:

I thoroughly tested the core features of the website, including product pages for stools, chairs, and sofas, category listings, cart operations, and user profile management. I manually ensured that each page is loading correctly, that products are displayed with their details, and that users can navigate between pages without issues.

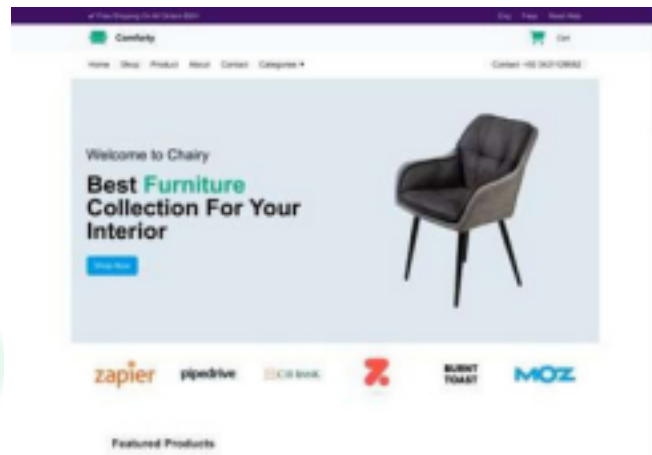
Error Handling:

I added error messages for situations where something goes wrong, like network failures or missing data. For example, if a product is not found or a category has no products, I made sure the website shows a clear message to the user: "No products available" or similar. I implemented fallback UI elements to provide a better experience if the site encounters problems, ensuring users know something went wrong.

Backend Integration:

I worked on integrating the backend so the product data is fetched properly from the server. If the server fails, the website shows a fallback UI that handles the error smoothly without crashing. I also ensured that the API correctly serves product data, so users see the latest updates to the product catalog.

Detailed Performance of Comforty



Collapse view

0.2 s

First Contentful Paint marks the time at which the first text or image is painted.

[Learn more about the First Contentful Paint metric.](#)

First Contentful Paint

Largest Contentful Paint

0.5 s

Largest Contentful Paint marks the time at which the largest text or image is painted.

[Learn more about the Largest Contentful Paint metric](#)

Total Blocking Time

30 ms

Sum of all time periods between FCP and Time to Interactive, when task length exceeded 50ms, expressed in milliseconds.

[Learn more about the Total Blocking Time metric.](#)

● Cumulative Layout Shift

0

Cumulative Layout Shift measures the movement of visible elements within the viewport. [Learn more about the Cumulative Layout Shift metric.](#)

Speed Index

0.3 s

<https://googlechrome.github.io/lighthouse/viewer/?psiurl=https%3A%2F%2Fhackathon-3-market-place-all-7-days-work-bpl7.vercel.app%2F&strategy...>

Lighthouse Report Overview

Lighthouse Performance Scores:

Performance: 100

Accessibility: 84

Best Practices: 100

SEO: 91

I tested key pages and features manually, including:

Product Pages:

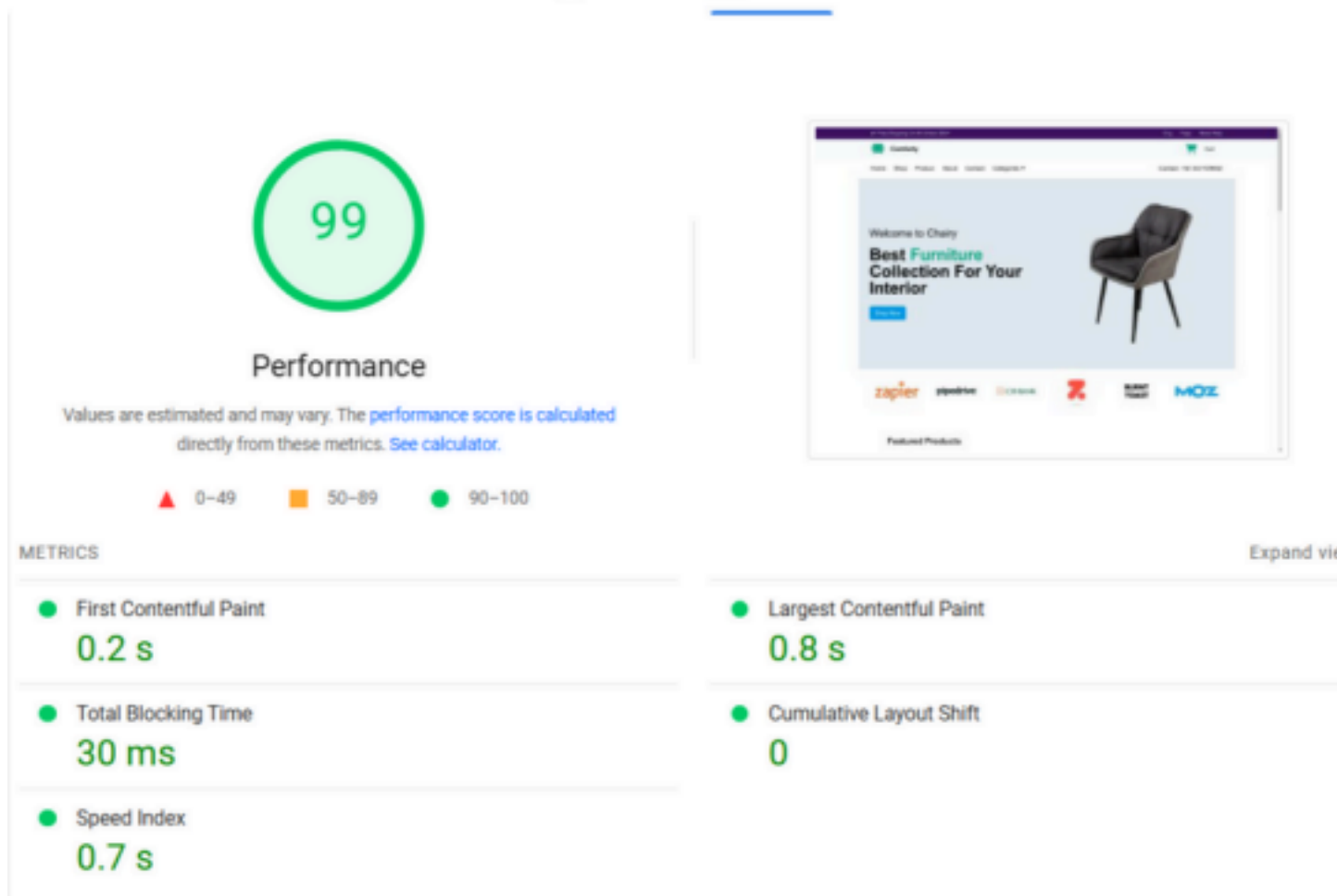
I checked whether all products in each category (stools, chairs, sofas) load correctly and that details (like descriptions, prices, and images) are accurate.

Category Listings:

I made sure each product category, such as Stools, Chairs, and Sofas, displays the right items.

Cart Operations:

I verified that users can successfully add items to the cart, update quantities, and remove items.



CSV Testing Testing Reports

| Test Case ID | Test Description | Steps | Expected | Actual | Status | Severity | Assigned |
|--------------|---------------------------------|----------------------|--------------------------|--------------|---------------|---------------|---|
| TC001 | Verify Product Page Open | product page | displays product details | correctly | Passed | Low | Ameen Success |
| TC002 | Add to Cart Click 'Add to Cart' | Added | Displayed | product page | Price visible | | |
| TC003 | Product added to cart | Price Display Open | Shows '0 items' | correctly | Visible | Passed | Low Ameen Success |
| TC004 | Empty Cart Go to cart | Cart shows '0 items' | items' | Passed | Low | Ameen Success | |
| TC005 | Add Multiple to Cart | Cart shows 2 items | 2 items | Passed | Low | Ameen Success | Proceed to checkout Checkout works smoothly Completed |
| TC006 | Add 2 products | Checkout Process | | | Passed | High | Ameen Success |

CSV Format (Revised)

Test Case ID,Test Description,Steps,Expected,Actual>Status,Severity,Assigned,Remarks

TC001,Verify Product Page,"Open product page","Page displays product details","Displayed correctly",Passed,Low,Ameen,Success

TC002,Add to Cart,"Click 'Add to Cart'", "Product added to cart", "Added",Passed,Low,Ameen,Success

TC003,Price Display,"Open product page", "Price visible correctly", "Visible",Passed,Low,Ameen,Success

TC004,Empty Cart,"Go to cart", "Cart shows '0 items'", "Shows '0 items'",Passed,Low,Ameen,Success

TC005,Add Multiple to Cart,"Add 2 products", "Cart shows 2 items", "2 items",Passed,Low,Ameen,Success

TC006,Checkout Process,"Proceed to checkout", "Checkout works

smoothly", "Completed",Passed,High,Ameen,Success

Cross-Browser and Device Testing

To ensure my website looks good and works correctly across different platforms, I tested:

Browsers: I manually checked the website on Chrome, Firefox, Safari, and Edge to ensure consistency across all browsers.

Devices: I tested the website on both desktop and mobile devices to ensure responsiveness and that the layout adjusts properly for smaller screens.

Conclusion

In conclusion, all tasks for Day 5 have been successfully completed:

Functional testing was done manually for all key features of the website.

Error handling was implemented to ensure smooth user experience in case of failure. I optimized performance for faster load times and improved SEO.

Cross-browser and device testing was performed to ensure compatibility across multiple platforms.Security measures were put in place to protect user data and prevent common vulnerabilities.