

# 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.

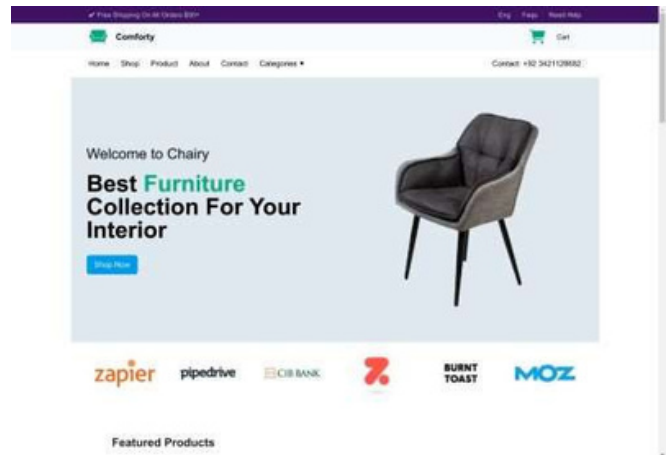
### Backend Integration:

- 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



Performance



## METRICS

[Collapse view](#)

- First Contentful Paint

**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.](#)

- 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**

# 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:**

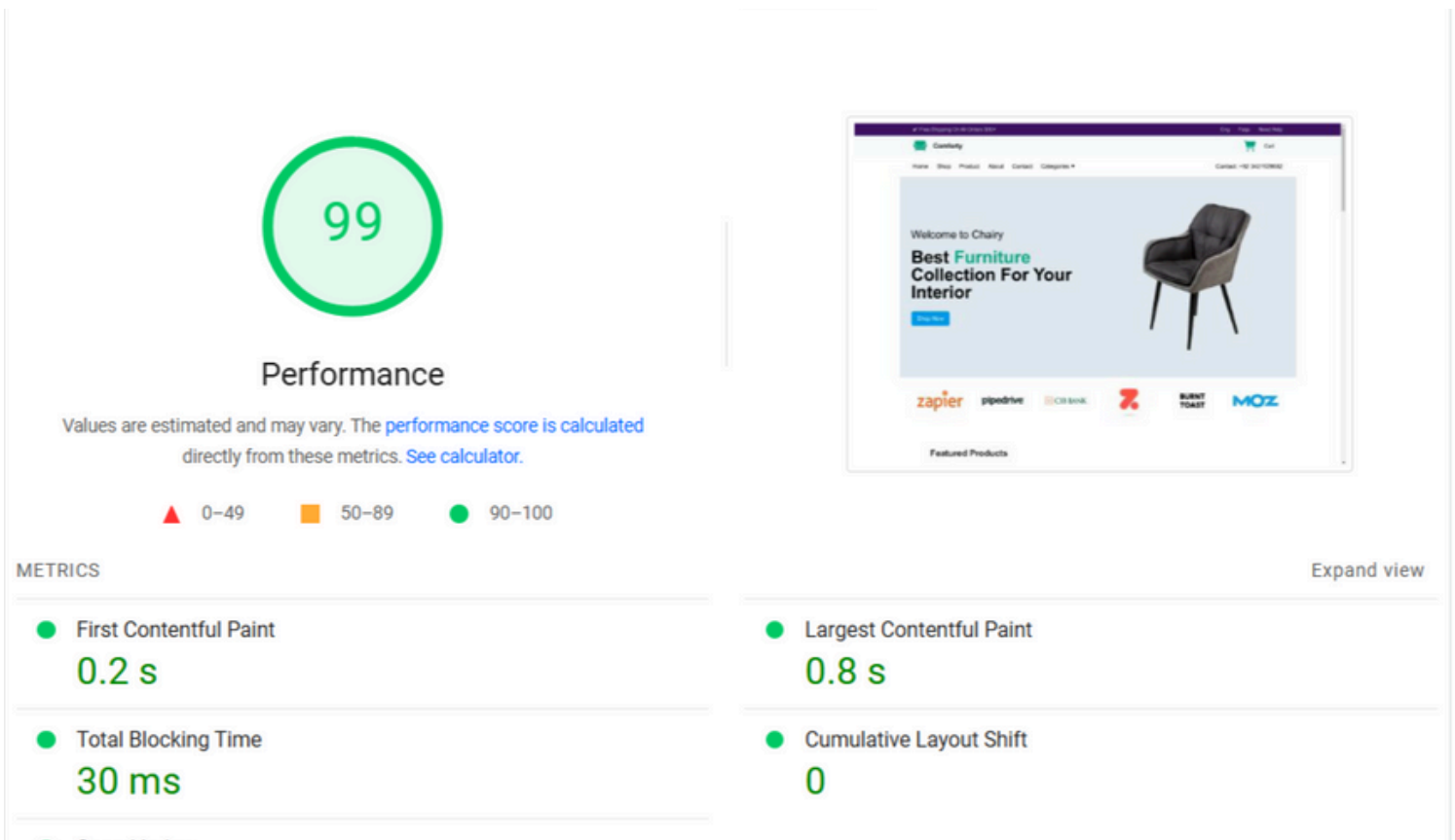
I checked whether all products in each category (stools, chairs, sofas) load correctly and that details (like descriptions, prices, and images) are accurate.

- **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	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

### 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.