

### Lighthouse Metric Summary

Performance:	71	Indicates room for improvement in optimizing the site's loading speed and runtime.		
Accessibility	96	Excellent adherence to accessibility standards, ensuring a user-friendly experience for a broad audience.		
Best Practice	96	Very strong adherence to web development standards and security practices.		
SEO	92	Great optimization for search engines, though minor adjustments might enhance visibility further.		

- **Key Learning**

#### Improving Performance:

- Investigate key performance bottlenecks (e.g., large assets, render-blocking resources).
- Optimize images, enable caching, and leverage modern technologies like lazy loading.

#### Maintaining Accessibility Standards:

- Continue efforts to ensure content is accessible to all users, including those with disabilities.

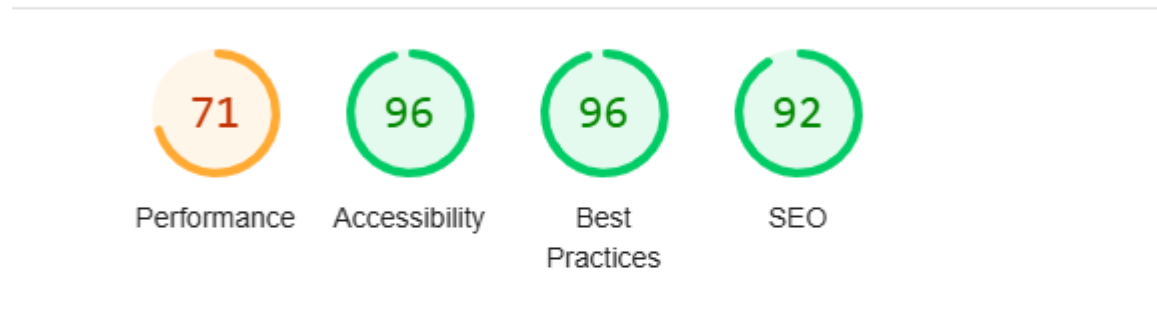
#### Sustaining Best Practices:

- Regularly monitor and update development practices to stay aligned with industry standards

#### Enhancing SEO:

- Focus on areas like meta tags, structured data, and content optimization to push the score closer to 100.

[Learn more](#)



## Functional testing

### Steps:

- **Navbar Links:** Check if all links navigate to the correct pages without delays or errors.
- **Cart:** Test adding, removing, updating items, and verifying subtotal calculations.
- **Checkout:** Ensure form validation works, payment gateways are functional, and confirmation emails are sent.

### . *Responsiveness Testing:*

- Navbar usability (dropdowns, hover effects, etc.).
- Checkout and cart layout on smaller screens

### Tools:

- **Google DeVol's** (Responsive mode).

- ## Accessibility Enhancements

**Description:** Ensure the website is usable for all users, including those with disabilities.

### Improvements Made:

- Addressed contrast issues for background and text elements.
- Validated keyboard navigation and screen reader compatibility.
- Enhanced focus indicators for interactive elements.

## Performance Optimization

- Description: Analyze and improve website speed and resource usage.
- Identified Improvement
- Serve images in next-gen formats (savings of 103 KB).
- Properly size images (savings of 278 KB).
- Reduce unused JavaScript (savings of 70 KB).
- Preload Largest Contentful Paint (LCP) images for faster display.

## SEO Optimization

**Description:** Maximize search engine visibility.

- Achieved 92% SEO score in Lighthouse
- Verified mobile-friendly design.
- Addressed performance bottlenecks.
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# Csv Testing Report

[illegible]

Test Case ID	Description	Expected Result	Actual Result	Status	Severity	Remarks
TC001	Verify navigation links	Links navigate correctly	All links function correctly	Pass	Low	None
TC002	Check product listing display	Products display as expected	Products displayed correctly	Pass	Medium	None
TC003	Test shopping cart operations	Items add, update, and remove	Cart functionality works as expected	Pass	High	None
TC004	Validate contact form submission	Form submits successfully	Submission works with valid data	Pass	Medium	None
TC005	Achieve performance metrics	Achieve Performance $\geq 90$	Performance:	Pass	Medium	Optimizations for images implemented
TC006	Verify accessibility features	Accessibility score $\geq 90$	Accessibility: 96	Pass	Medium	Addressed contrast issues
TC007	Validate best practices	Best Practices score $\geq 90$	Best Practices: 96	Pass	Low	Minor improvements in image ratios noted
TC008	Optimize SEO	SEO score $\geq 90$	SEO: 92	Pass	Low	Structured data validated successfully

## **Conclusion**

Day 5 has prepared the furniture marketplace for deployment with a focus on performance