*Day5 Testing Report of Marketplace....*

**Lighthouse Metric Summary**

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| *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.



**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).
* **Browser Stack** or **Lambda Test** for cross-device and browser testing

**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.

Csv Testing Report

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| **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 ≥ 90 | Performance: | Pass | Medium | Optimizations for images implemented |
| TC006 | Verify accessibility features | Accessibility score ≥ 90 | Accessibility: 96 | Pass | Medium | Addressed contrast issues |
| TC007 | Validate best practices | Best Practices score ≥ 90 | Best Practices: 96 | Pass | Low | Minor improvements in image ratios noted |
| TC008 | Optimize SEO | SEO score ≥ 90 | SEO: 92 | Pass | Low | Structured data validated successfully |

**Conclusion**

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

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