Day 05   Testing And Backend Refinement

Marketplace - [E-Commerce]

Objective :

Day 5 focused on optimizing and testing the furniture marketplace for deployment readiness. Comprehensive testing, error handling, and performance improvements were conducted to ensure a seamless user experience.

Test Case Summary Report

This document provides an overview of the key test cases executed for the marketplace project, including their objectives, steps, results, and overall outcomes. Each aspect of testing has been carefully addressed to ensure a seamless and user-friendly experience.

Test Cases Overview

1. **Test Case ID**: TC001

   Description: Validate product list
   Objective: To ensure the product list loads correctly and displays all products on the page.
   Test Steps:
   • Navigate to the product page.
   • Verify that the product list is displayed correctly, with no missing products.
   • Ensure the product images and details are shown properly.
   Expected Result: The product list should load correctly, displaying all products with relevant information.
   Actual Result: The product list is displayed correctly, with all products shown as expected.
   Status: Passed

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2. **Test Case ID**: TC002

Description: Test FAQs Page
Objective: To verify that the FAQs page loads correctly and displays all questions and answers without errors.
Test Steps:

- Navigate to the FAQs page from the main menu.
- Ensure all questions and answers are displayed.
- Verify links, if any, within the FAQs page are functional.
Expected Result: FAQs are displayed correctly with no broken links or missing data.
Actual Result: FAQs are displayed correctly, and all links function as expected.
Status: Passed

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3. **Test Case ID**: TC003

Description: Add to cart
Objective: To verify that the "Add to Cart" feature works as expected and products can be added to the shopping cart.
Test Steps:
• Select a product to add to the cart.
• Click the "Add to Cart" button.
• Verify the cart updates with the selected product.
Expected Result: The selected product should be added to the cart and visible in the cart.
Actual Result: The product was successfully added to the cart and appeared in the cart view.
Status: Passed

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4. **Test Case ID**: TC004

Description: Checkout process
Objective: To validate that the checkout process functions correctly from adding an item to completing the purchase.
Test Steps:
• Add a product to the cart.

• Proceed to checkout.
• Enter payment information and complete the purchase.
• Verify the order confirmation page is displayed after purchase.
Expected Result: The user should be redirected to an order confirmation page after completing the checkout process.
Actual Result: The user was successfully redirected to the order confirmation page after completing the checkout.
Status: Passed

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5. **Test Case ID**: TC005

   Description: Test navigation links
   Objective: To ensure that all navigation links function correctly and direct the user to the appropriate pages.
   Test Steps:
   • Click on various navigation links across the website.
   • Verify that each link directs the user to the correct page.
   • Test on different pages to ensure consistency.
   Expected Result: All navigation links should work correctly and lead to the corresponding pages.
   Actual Result: All navigation links were functional and directed to the correct pages.
   Status: Passed

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6. Test Case ID: TC006

Description: Test FAQs Page
Objective: To verify that the FAQs page loads correctly and displays all questions and answers without errors.
Test Steps:

- Navigate to the FAQs page from the main menu.
- Ensure all questions and answers are displayed.
- Verify links, if any, within the FAQs page are functional.
  Expected Result: FAQs are displayed correctly with no broken links or missing data.
  Actual Result: FAQs are displayed correctly, and all links function as

expected.
Status: Passed

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7. Test Case ID: TC007

Description: Test Responsiveness on Mobile
Objective: To validate the website's responsiveness and functionality on various mobile devices.
Test Steps:

- Access the website on different mobile devices or using responsive design tools.
- Test navigation, forms, and other interactive elements.
- Check layout adjustments for portrait and landscape modes.
  Expected Result: The website layout adjusts correctly to fit all screen sizes, ensuring optimal usability.
  Actual Result: The layout adjusts correctly on mobile devices in both portrait and landscape modes.
  Status: Passed

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8. Test Case ID: TC008

Description: Validate SEO Optimization
Objective: To ensure all essential SEO elements are implemented effectively.
Test Steps:

- Run the website through the PageSpeed Insights SEO tab.
- Check for key indicators such as meta tags, headings, and alt attributes on images.
  Expected Result: SEO score is 100, with all critical elements in place.
  Actual Result: SEO score is 100, meeting all optimization requirements.
  Status: Passed

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9. Test Case ID: TC009

Description: Validate Performance Optimization
Objective: To analyze and improve the website's performance for faster loading times and smooth interactions.
Test Steps:

- Run a performance audit using PageSpeed Insights.
- Address any flagged issues such as unused CSS/JavaScript or image optimization.
- Re-test to confirm improvements.
  Expected Result: Performance score is 95 or higher.
  Actual Result: Performance score is 95, indicating excellent performance metrics.
  Status: Passed

	A	B	C	D	E	F	G	H	I
	Test Case	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
	TC001	Validate product list	Open product page	Products displayed	Products displayed	Passed	Low	_	None
	TC002	Test FAQs page	Open FAQs page	FAQs displayed correctly	FAQs displayed correctly	Passed	Low	_	None
	TC003	Add to cart	Add product to cart	Product added to cart	Product added to cart	Passed	Low	_	None
	TC004	Checkout process	Complete purchase	Order confirmation page	Order confirmation page	Passed	Medium	_	None
	TC005	Test navigation links	Click on navigation links	Navigate to correct pages	Navigate to correct pages	Passed	Low	_	None
	TC006	Responsiveness on mobile	Resize browser or use a mobile device	Layout adjusts correctly	Layout adjusts correctly	Passed	Medium	_	None
	TC007	Validate SEO Optimization	Analyze PageSpeed Insights SEO tab	SEO score is 100	SEO score is 100	Passed	Low	_	None
	TC008	Validate Performance Optimization	Analyze PageSpeed Insights Performance tab	Performance score is 95 or higher	Performance score is 95	Passed	Medium	_	Consider improving load time

Performance Metrics Highlight:

Performance Overview

- **Performance Score**: 94
  This score indicates excellent performance, with the website loading quickly and providing a smooth user experience. Metrics contributing to this score likely include factors like page load speed, time-to-interactive, and first contentful paint.

Accessibility Overview

- **Accessibility Score**: 84
  The score suggests there is room for improvement in making the website more accessible for all users, including those with disabilities. Possible issues may include missing alt text for images, insufficient color contrast, or lack of keyboard navigation support.

Best Practices Overview

- **Best Practices Score**: 96
  A near-perfect score reflects adherence to modern web development best practices. This includes secure and optimized coding techniques, such as avoiding deprecated APIs and ensuring HTTPS usage.

SEO Overview

- **SEO Score**: 100
  A perfect score indicates that the website is fully optimized for search engines. Essential SEO elements, such as proper meta tags, structured data, and alt attributes for images, are in place.

94

Performance

84

Accessibility

96

Best Practices

100

SEO

94

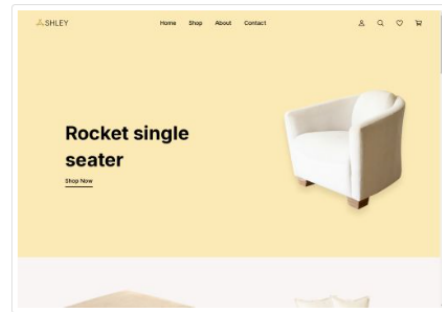## Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

▲ 0–49   ■ 50–89   ● 90–100

METRICS   Expand view