



# Task-02: Compatibility Testing Report



## Task Overview

**Title:** Conduct Compatibility Testing for a Basic Web Page

**Objective:** To evaluate the consistency and behavior of a demo e-commerce website across different web browsers and devices. This includes detecting layout issues, functional errors, and UI discrepancies, and documenting the compatibility findings along with recommended fixes.

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## Website Under Test

- **Target URL:** Demo Website
  - **Project Type:** Static/Dynamic E-commerce Interface
  - **Test Type:** Manual Compatibility Testing
  - **Date of Testing:** 7th October, 2025
  - **Tested By:** Amritangshu Dey
  - **Tools Used:** Manual inspection using built-in developer tools and different devices/browsers.
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## Testing Scope & Approach



### Browsers Tested:

- Google Chrome (latest version)
- Mozilla Firefox (latest version)
- Microsoft Edge (Chromium-based)
- Safari (iOS, macOS)

## ✓ Devices Tested:

- Desktop (Windows 10, macOS Ventura)
- Tablet (Android & iPad)
- Mobile (Android 12, iOS 16)

## ✓ Test Methodology:

1. Open the demo website in each browser/device.
2. Interact with key elements: navigation, buttons, forms, links, and media.
3. Observe rendering, responsiveness, and performance.
4. Document any bugs, misalignments, or inconsistencies.
5. Suggest actionable fixes in simple terms.



## Detailed Findings

### ✓ 1. Layout and Design Consistency

Browser/Device	Observation	Issue/Working	Notes
Chrome/Desktop	Layout renders correctly	✓ Working	Font and spacing consistent
Safari/Mobile	Product grid overlaps	✗ Issue	Grid layout breaks under 375px width
Firefox/Tablet	Button overlaps image	✗ Issue	Likely a flexbox or padding issue
Edge/Mobile	Layout shifts slightly	⚠ Minor Issue	Slight spacing inconsistency

### Recommendation:

Use responsive design techniques such as **media queries** to properly adapt the layout across screen sizes. Test with browser developer tools set to various breakpoints (320px, 768px, 1024px).

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## ✅ 2. Functional Compatibility

Feature	Device/Browser	Status	Notes
Navigation Bar	All devices	✅ Working	Responsive, hamburger menu works
Search Function	Chrome, Firefox	✅ Working	Results load correctly
Contact Form	Edge, Safari	✅ Working	Submits data with validation
“Buy Now” Button	Chrome/Tablet	❌ Issue	Partially cut off

### Recommendation:

Ensure button components are within flexible containers and don't have fixed widths. Use `max-width` and `min-width` properties for better flexibility.

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## ✅ 3. Link and Routing Behavior

Page Link	Status	Issue
Home Page	✅	No issues
Contact Us	❌	404 error on Firefox
Product Details	✅	Loads properly
Cart Page	✅	Fully functional

### Recommendation:

Check the routing configuration and link paths. The broken link might be due to incorrect case sensitivity (e.g., `Contact.html` vs `contact.html`) or missing deployment.

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## 📌 UI/UX Discrepancies

- **Font Rendering on Edge Mobile:**  
Custom font not applied. Browser defaults to fallback system font.  
*Fix:* Ensure web font formats like `.woff2` and `.ttf` are loaded properly with `@font-face`.

- **Image Scaling on iPad:**  
Some images appear stretched.  
*Fix:* Use `object-fit: cover` or `contain` in CSS.
  - **Hover Effects Missing on Touch Devices:**  
Buttons on mobile do not show hover feedback.  
*Note:* This is expected behavior on touch devices; consider adding a `:focus` style instead.
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## Suggested Fixes Summary

Issue	Recommendation
Layout Overlap (Safari Mobile)	Use media queries, grid adjustments
Broken Link (Firefox)	Fix or update route/link
Button Overflow (Tablet)	Set max-width, avoid fixed positioning
Font Issues (Edge Mobile)	Load <code>.woff2</code> and ensure HTTPS access

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## Retesting Plan

After applying the suggested fixes:

- Retest the website on the same set of browsers and devices.
  - Verify fixes are successfully applied.
  - Recheck for regressions or new issues introduced by changes.
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## Best Practices for Compatibility

- Use **responsive design frameworks** (Bootstrap, Tailwind).
- Avoid fixed widths and heights wherever possible.

- Use **progressive enhancement**: basic functionality should work even if advanced features fail.
  - Test with **real devices** and not only browser emulators.
  - Use **cross-browser testing tools** (e.g., BrowserStack, LambdaTest) for broader coverage.
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## Conclusion

The basic web page generally works well across most platforms with minor issues identified in layout alignment, button sizing, and font rendering. With the suggested improvements, the website can deliver a consistent and user-friendly experience across all major browsers and devices.

**Status:** Partially Compatible (With Fixes Recommended)