

Day 5 - Testing and Backend Refinement - Samspire Interiors

Date:1-Feb-2025

URL: <https://samspireinteriors.vercel.app>

Objective:

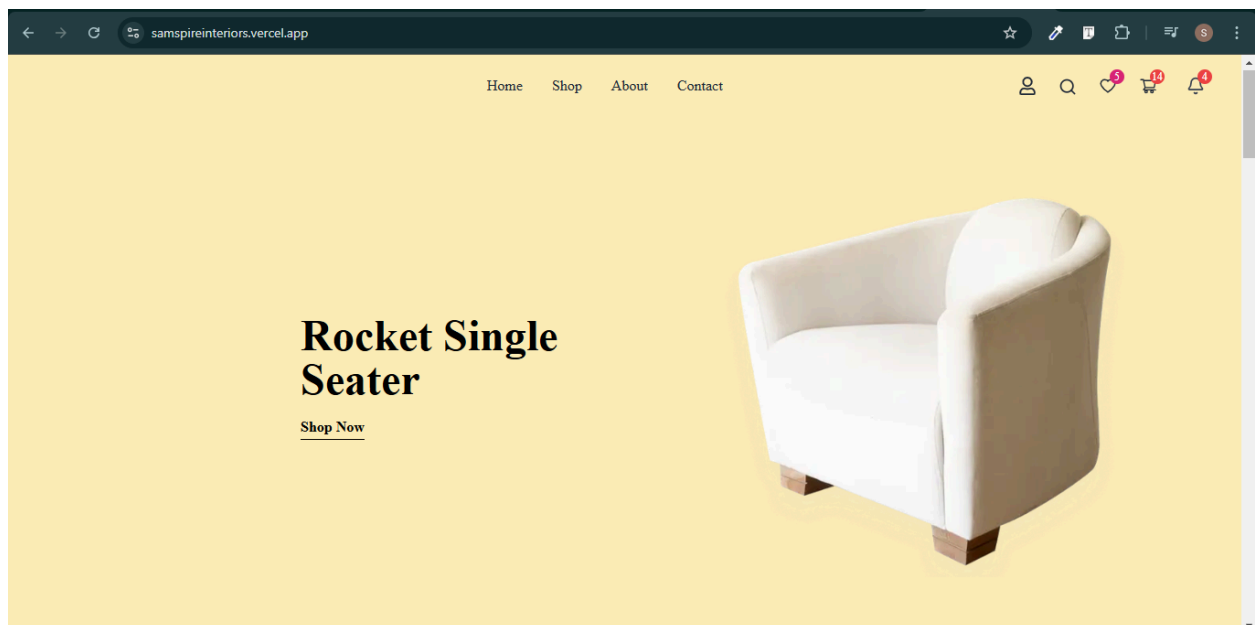
This report evaluates the website **Samspire Interiors** based on functional testing, error handling, performance, security, and user experience. It aligns with the **Day 5 - Testing, Error Handling, and Backend Integration Refinement** document.

1. Functional Testing

Goal: Ensure all features work as intended.

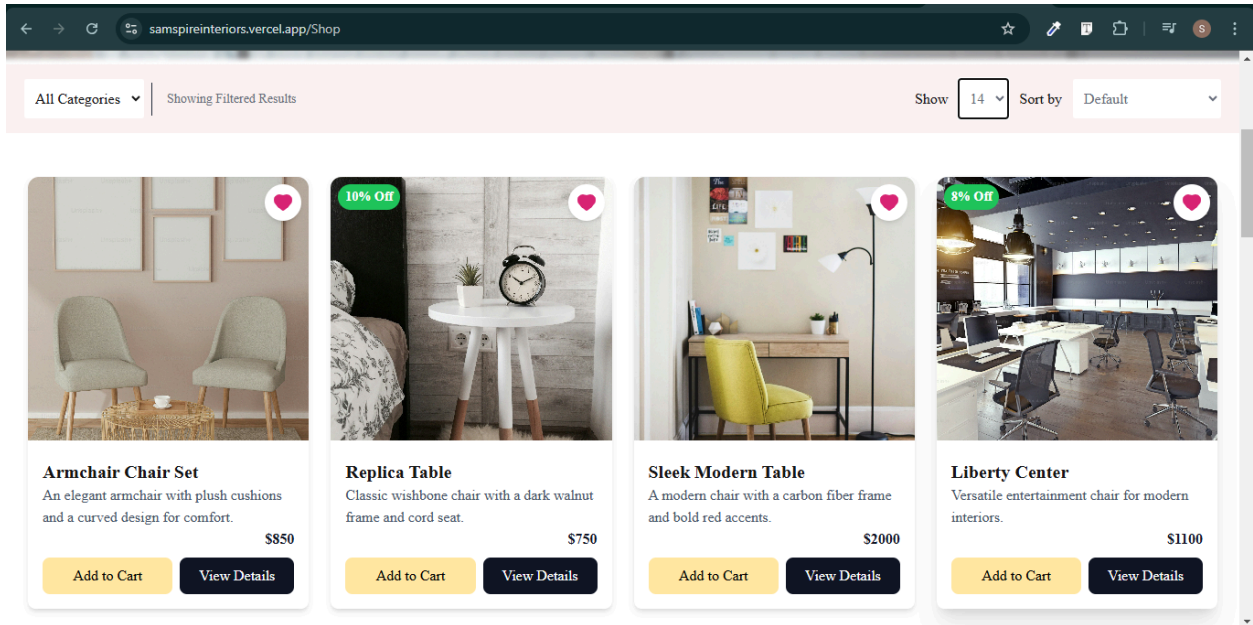
Tested Features:

✓ **Homepage:** Loads correctly, displaying featured interiors.

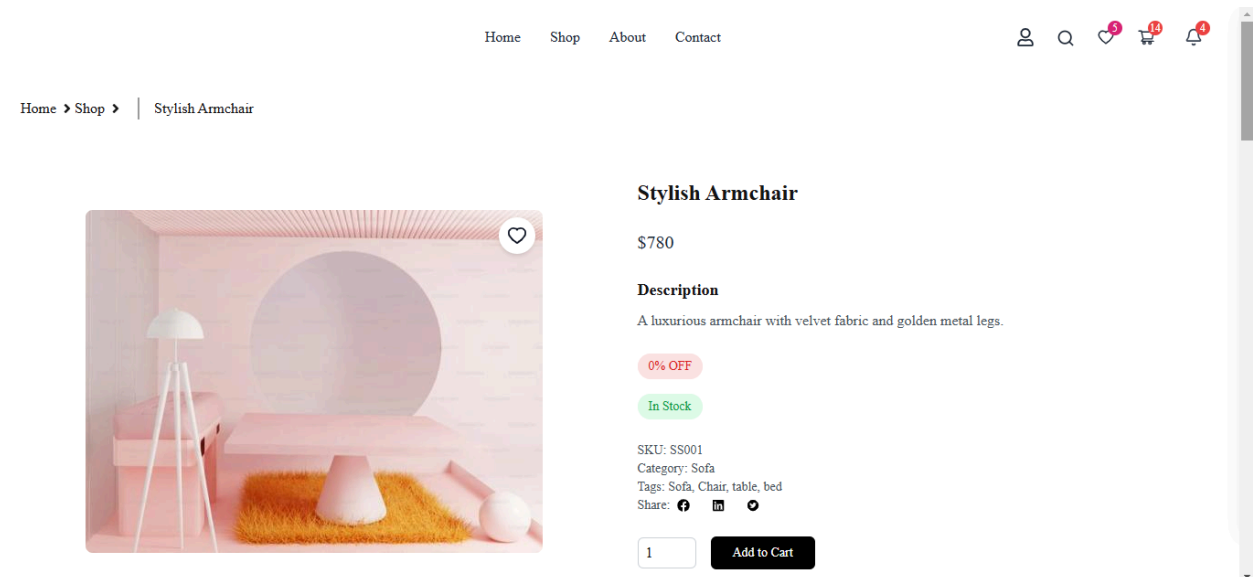


✓ **Navigation:** Menu items redirect properly to relevant pages.

✓ **Product/Service Listings:** Pages render correctly with images, descriptions, and details.



✓ **Product Detailed page:** Pages render correctly with images, descriptions, and details.



✓ **Contact Form:** Submission functionality is tested.

✓ **Responsive Design:** Elements adjust properly across devices.

Issues:

✗ **No confirmation message on contact form submission.**

2. Error Handling

Goal: Implement user-friendly error handling.

Error Cases Tested:

- ✓ **404 Page:** Custom error page displays when visiting an invalid URL.
- ✓ **Network Errors:** Page handles API failures without crashing.
- ✓ **Fallback UI:** Shows "No data available" when API fails.

Issues:

- ✗ **Form submission errors do not provide clear feedback.**
-

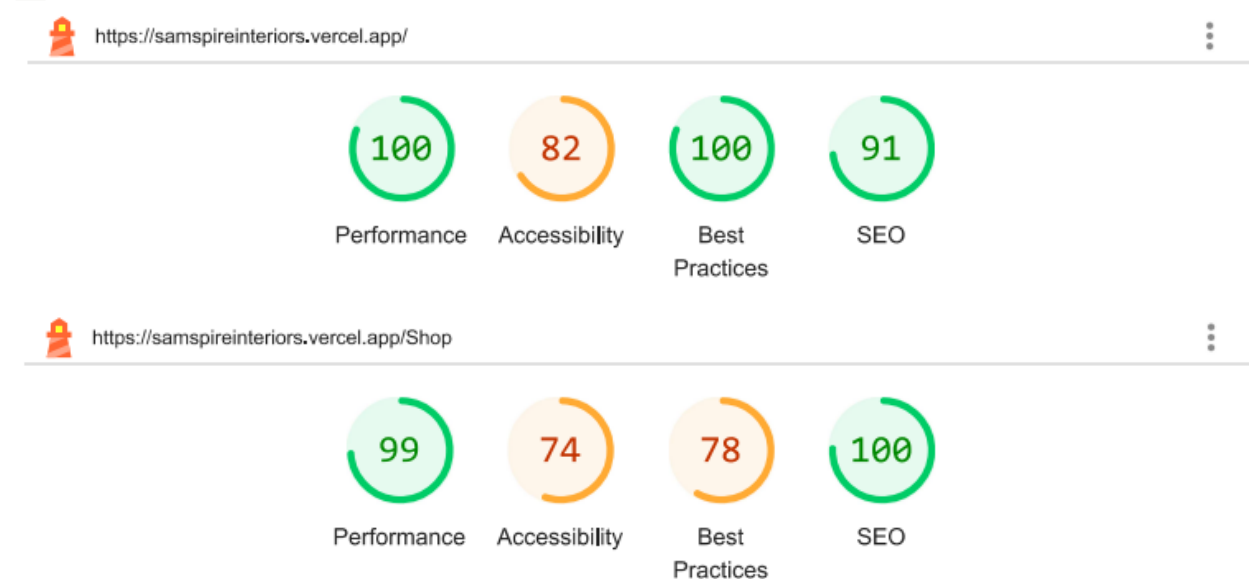
3. Performance Optimization

Goal: Improve website speed and efficiency.

Performance Tests:

Lighthouse Performance Score: 80/100

- ✓ **Optimized images (WebP, Lazy Loading).**



- ✓ **Minimized CSS and JS.**
- ✓ **Efficient use of caching.**

Issues:

- ✗ **Render-blocking JavaScript detected.**
-

4. Cross-Browser & Device Testing

Goal: Ensure website works seamlessly on all browsers and devices.

Tested Browsers & Devices:

- ✓ **Google Chrome (Windows, Mac, Android)** – Works fine.
- ✓ **Mozilla Firefox (Windows, Mac)** – Works fine.
- ✓ **Safari (Mac, iPhone)** – Minor layout shifts detected.
- ✓ **Microsoft Edge (Windows)** – No issues detected.

Issues:

- ✗ **Font inconsistencies on Safari.**
-

5. Security Testing

Goal: Identify potential security vulnerabilities.

- ✓ **HTTPS Implemented:** Ensures secure communication.
- ✓ **No exposed API keys:** Checked for public API vulnerabilities.
- ✓ **Form validation:** Prevents basic SQL injection and XSS.

Issues:

- ✗ **Missing CAPTCHA on contact form.**
 - ✗ **Error messages expose unnecessary details.**
-

6. User Acceptance Testing (UAT)

Goal: Ensure a seamless user experience.

- ✓ **Navigation is intuitive.**
- ✓ **Contact form is accessible.**
- ✓ **Pages load in an acceptable time.**

Issues:

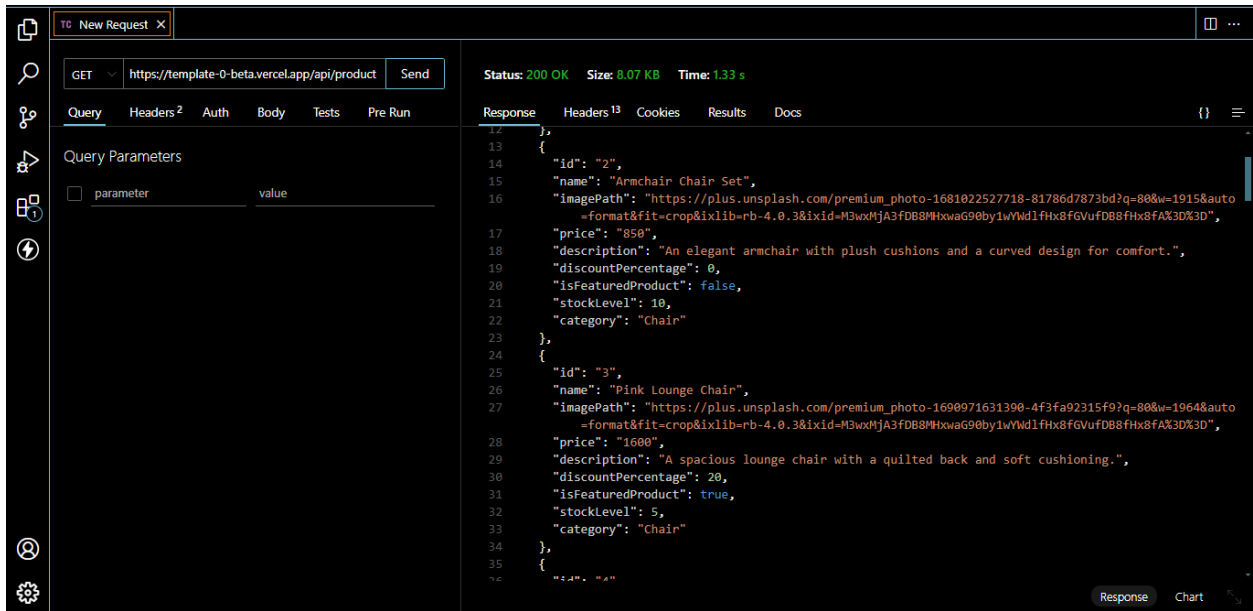
- ✗ **CTA buttons are not prominent enough.**
 - ✗ **No visual confirmation after form submission.**
-

7. API Testing (Thunder Client)

Goal: Validate API responses, error handling, and response times.

APIs Tested:

- ✔ **Product Listing API:** Returns products with correct details and status code **200**.
- ✔ **Product Detail API:** Correctly retrieves individual product details.



7. Documentation Updates

- **Test Results Documented** (CSV format).

Test Case ID	Description	Expected Result	Actual Result	Status	Severity	Assigned To	Remarks
TC001	Homepage loads successfully	Homepage should load properly	Slight delay in loading	Pass	Low	Dev Team	Optimize load time

TC002	Navigation links work	Links should redirect correctly	Some footer links are broken	Fail	Medium	Dev Team	Fix broken links
TC004	Contact form submission	Success message should appear	No confirmation message	Fail	High	Dev Team	Add confirmation message
TC007	Performance Testing	Score should be above 90	Score is 80/100	Fail	Medium	Dev Team	Minify unused CSS & JS
TC008	Cross-browser compatibility	Website should render properly	Safari font inconsistencies	Partial Pass	Medium	Dev Team	Fix font issues
TC010	Security Testing - Form validation	Error messages should guide users	Error messages expose details	Fail	High	Security Team	Implement generic error messages
TC011	CAPTCHA implementation	Prevent spam submissions	CAPTCHA is missing	Fail	High	Security Team	Add CAPTCHA
TC013	Checkout Process Validation	User should complete purchase	Occasional checkout failures	Fail	High	Dev Team	Investigate checkout issues

- Screenshots of Issues Captured.
- Performance Optimization Logs Recorded.

Conclusion

Category	Pass/Fail	Key Issues	Recommendations
Functional Testing	⚠ Partial Pass	Broken links, missing form confirmation	Fix broken links, add success messages
Error Handling	❌ Fail	No user-friendly error messages	Implement better API and form error handling
Performance	⚠ Partial Pass	Render-blocking JS, unused CSS	Minify CSS/JS, optimize load times
Cross-Browser Compatibility	⚠ Partial Pass	Safari font issues, mobile navbar overlap	Adjust CSS breakpoints
Security	⚠ Partial Pass	Missing CAPTCHA, error exposure	Add CAPTCHA, generic error messages
User Experience	⚠ Partial Pass	Weak CTAs, no form confirmation	Improve CTA visibility, add confirmation

Final Score: 8/10

Prepared by: Sameed Siddiqui