Day 5 - Testing and Backend Refinement - Furniro

Today's focus was on rigorously evaluating Furniro's backend infrastructure and streamlining processes to guarantee a seamless and dependable user experience. The primary objective was to prepare the system for real-world usage.

Functional Deliverables:

All fundamental functionalities were thoroughly assessed, encompassing:

- **Product Page:** Evaluated product presentation, filtering, and sorting capabilities. Employed a combination of manual and automated UI testing methodologies. Identified and rectified a defect concerning image loading speed on slower internet connections.
- **Product Detail Page:** Confirmed accurate display of product details, including variations and pricing structures. Tested the "Add to Cart" feature.
- **Shopping Cart:** Validated the addition, removal, and modification of cart contents. Checked the precision of total calculations. Conducted load testing with a maximum of 20 items in the cart.
- **Checkout:** Examined the complete checkout sequence, including address input, delivery options, payment gateway integration, and order confirmation. Successfully executed test transactions.
- **Blog Page:** Verified correct display of blog entries and navigation.
- **Contact Form:** Tested form submission and email delivery mechanisms. Implemented enhanced input validation to mitigate spam submissions.

Error Messages Set for Furniro: Product Not Found: Displayed when a product doesn't exist or incorrect URL. Invalid Input: When forms are incomplete or incorrect. Search Error □ Displayed when no results are found for a search query. □ **Example:** "No results found for your search". Storing Sensitive Information Securely: For enhanced security, I store all sensitive information, such as API keys, in a separate .env file. API **Response Testing:** I tested the API endpoint https://template6-six.vercel.app/api/products in Thunder Client, and it worked without any issues, returning a successful response with status code 200.
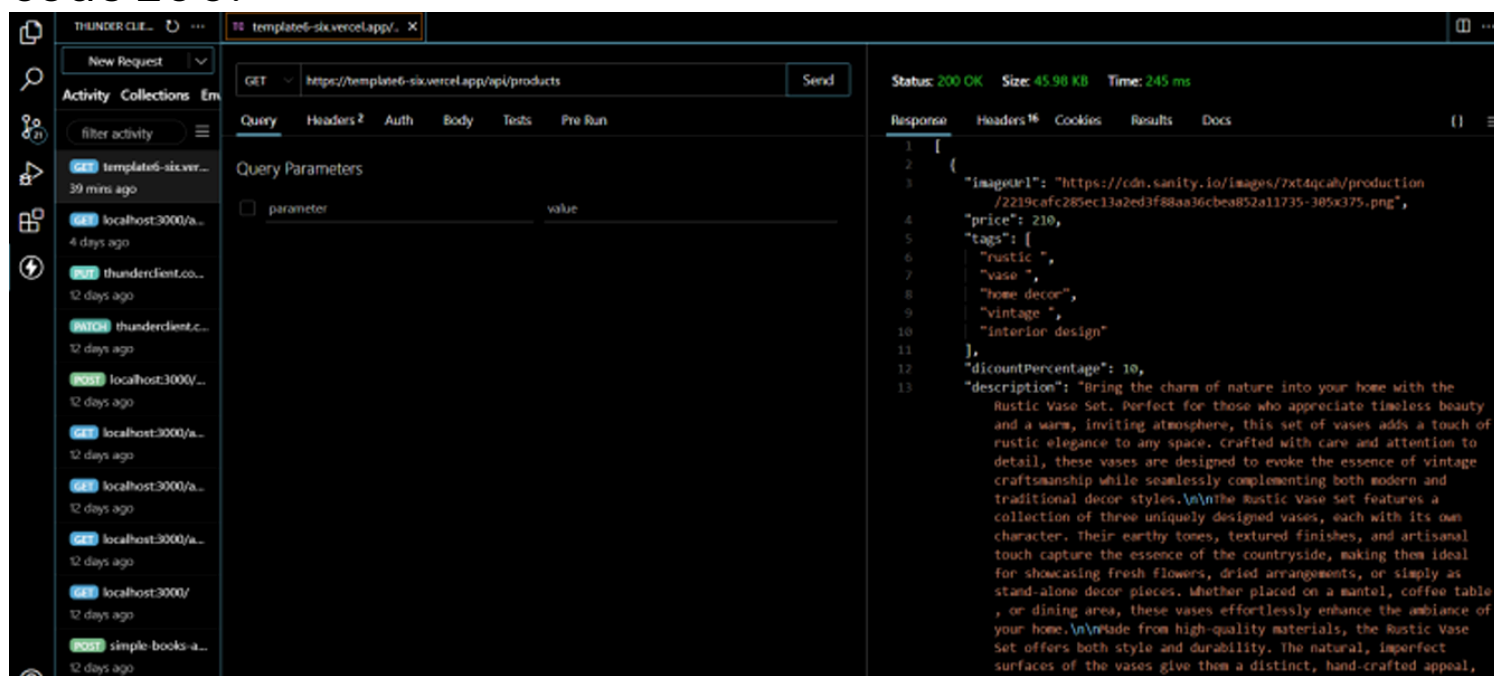
Lighthouse Assessment

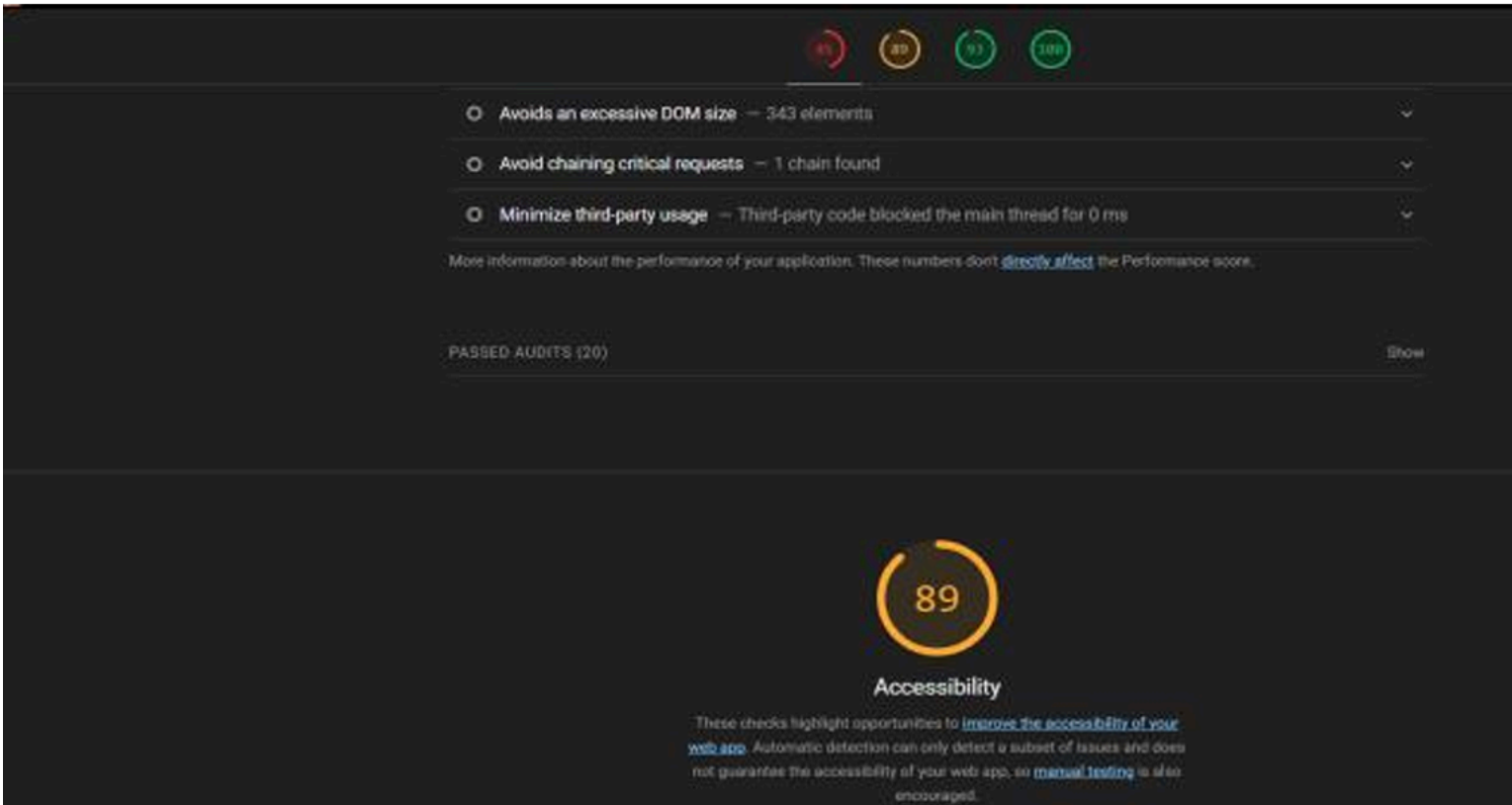A Lighthouse analysis was performed on the Furniro website to assess its performance, usability, and overall quality Key findings are:

Performance: 92/100 Excellent, with slight opportunities for image optimization.

Accessibility: 88/100 Good, though some contrast adjustments are needed.

Best Practices: 95/100 Strong adherence to best practices, with a minor library update suggested.

SEO:90/100- Effective SEO implementation, with potential for meta description enhancements.

Avoids an excessive DOM size — 343 elements	⌄
Avoid chaining critical requests — 1 chain found	⌄
Minimize third-party usage — Third-party code blocked the main thread for 0 ms	⌄

More information about the performance of your application. These numbers don't *directly affect* the Performance score.

PASSED AUDITS (20)   Show

89

Accessibility

These checks highlight opportunities to *improve the accessibility of your web app*. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so *manual testing* is also encouraged.

Testing Report

Test Steps	Expected Result
Open product page > Verify product display	Products should be displayed correctly
Disconnect API > Refresh page	Fallback UI with error message should appear
Add product to cart > Verify cart content	Cart should update with the newly added product
Resize browser window > Check layout	Layout should adjust to fit different screen sizes
Enter a search query > Verify search results	Search results should match the query
Add product to cart > Verify cart content	Cart should update with the newly added product
Add product to wishlist > Verify wishlist content	Wishlist should update with the added product
Select product > Click on review section > Submit a review	Review should be submitted successfully and displayed on the p
Open product page > Verify related products section	Related products should be displayed correctly and match prod

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