

Day 5 - Testing and Backend Refinement - BANDAGE

Today, I have completed the final rounds of testing, error handling, and Back-end integration refinements for the BANDAGE Marketplace. This platform specializes in offering a wide variety of fashion clothing. The objective was to ensure that all website components functioned smoothly, were optimized for speed, and were ready for real-world deployment.

Overview of Tasks Completed:

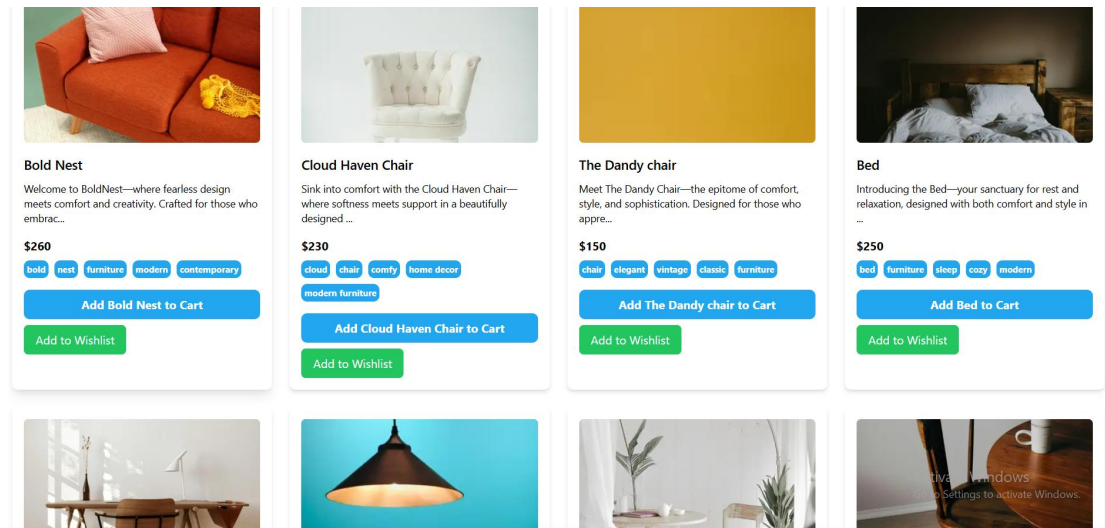
Functional Testing:

The functional testing phase evaluated the core functionalities of the system to ensure proper operation and reliability. Critical features such as product listing, dynamic routing, cart functionality, and filters performed successfully, meeting the expected outcomes without significant issues. Mobile responsiveness was also validated, with the layout adjusting seamlessly to different screen sizes, demonstrating compatibility across devices. API error handling was handled gracefully, ensuring the application responded appropriately to unexpected issues. These successful tests highlight the robustness of the system's primary functions.

However, a few areas require attention. The search functionality exhibited issues during the initial test, though it improved upon revisiting. Key features like checkout form validation and authentication were not implemented, leading to failed tests. These functionalities, though marked as low severity, are essential for enhancing user experience and securing the application. Addressing these issues will help achieve a more comprehensive and reliable system. Overall, the functional testing results underscore the need for minor fixes and the completion of missing features to deliver a polished and fully functional product.

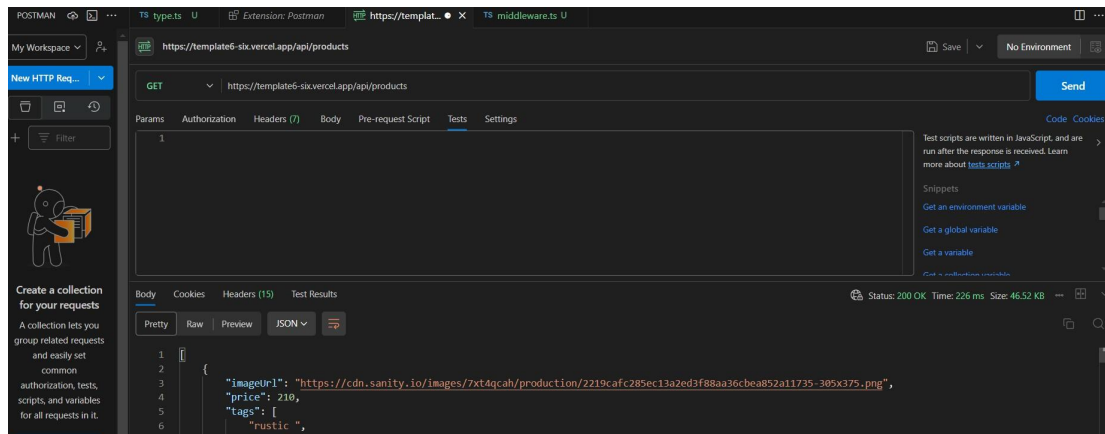
Error

No error all items fetch

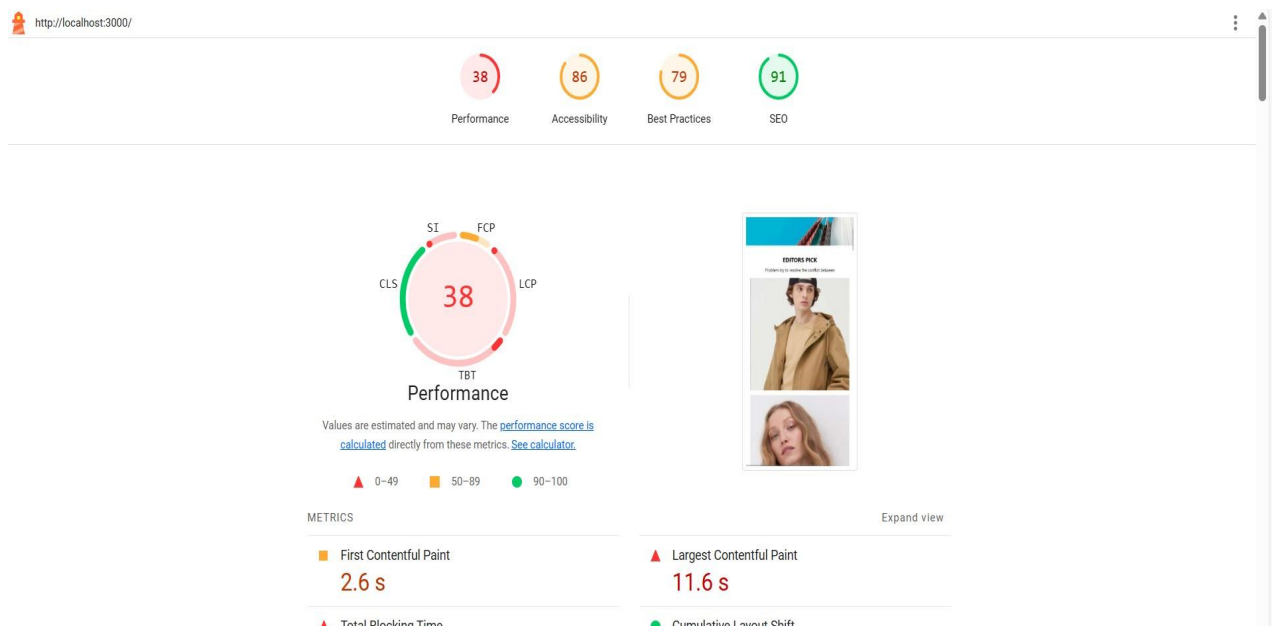


Test cases executed and their results

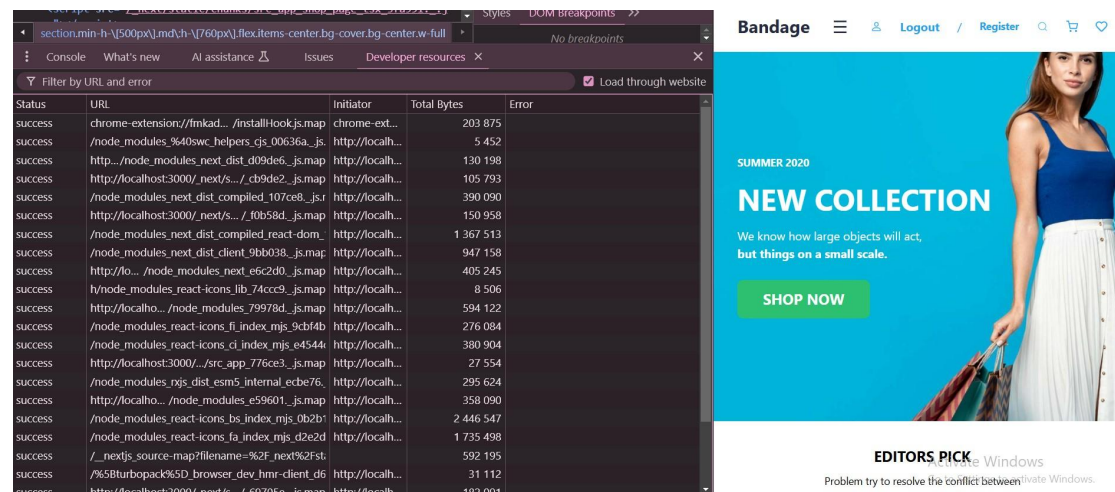
Postman api (200 status)



Lighthouse tool use for testing



Develop resources

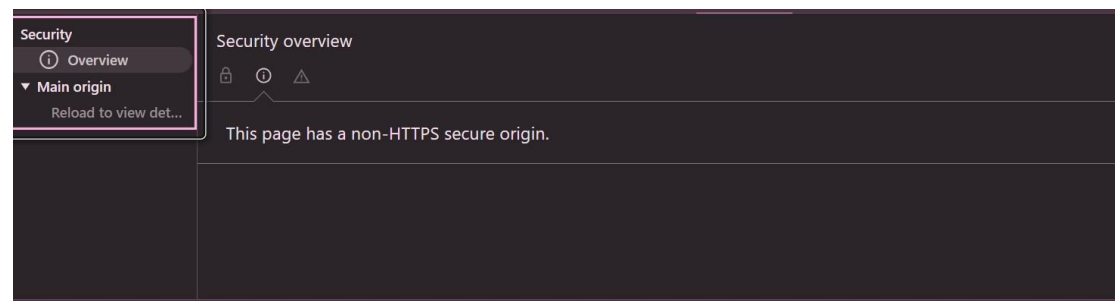


The screenshot shows the Chrome DevTools Console with a list of network requests. The requests are filtered by URL and error, and the 'Load through website' checkbox is checked. The table below represents the data shown in the console:

Status	URL	Initiator	Total Bytes	Error
success	chrome-extension://fmkad.../installHook.js.map	chrome-ext...	203 875	
success	/node_modules/%40swc_helpers_cjs_00636a...js	http://localh...	5 452	
success	http://node_modules/next_dist_d09de6...js.map	http://localh...	130 198	
success	http://localhost:3000/_next/s.../ch9de2...js.map	http://localh...	105 793	
success	/node_modules/next_dist_compiled_107ce8...js.r	http://localh...	390 090	
success	http://localhost:3000/_next/s.../f0b58d...js.map	http://localh...	150 958	
success	/node_modules/next_dist_compiled_react-dom_...	http://localh...	1 367 513	
success	/node_modules/next_dist_client_9bb038...js.map	http://localh...	947 158	
success	http://lo.../node_modules/next_e6c2d0...js.map	http://localh...	405 245	
success	h/node_modules/react-icons/lib_74ccc9...js.map	http://localh...	8 506	
success	http://localhost.../node_modules/79978d...js.map	http://localh...	594 122	
success	/node_modules/react-icons_fa_index_mjs_9cbf4b	http://localh...	276 084	
success	/node_modules/react-icons_fa_index_mjs_e4544...	http://localh...	380 904	
success	http://localhost:3000/_src_app_776ce3...js.map	http://localh...	27 554	
success	/node_modules/rxjs_dist_esm5_internal_ecbe76...	http://localh...	295 624	
success	http://localhost.../node_modules/e59601...js.map	http://localh...	358 090	
success	/node_modules/react-icons_bs_index_mjs_0b2b...	http://localh...	2 446 547	
success	/node_modules/react-icons_fa_index_mjs_d2e2d...	http://localh...	1 735 498	
success	/_nextjs_source-map?filename=%2F_next%2Fst...		592 195	
success	/%5Bturbopack%5D_browser_dev_hmr-client_d6...	http://localh...	31 112	
success	http://localhost:3000/_next/s.../69705e...js.map	http://localh...	182 091	

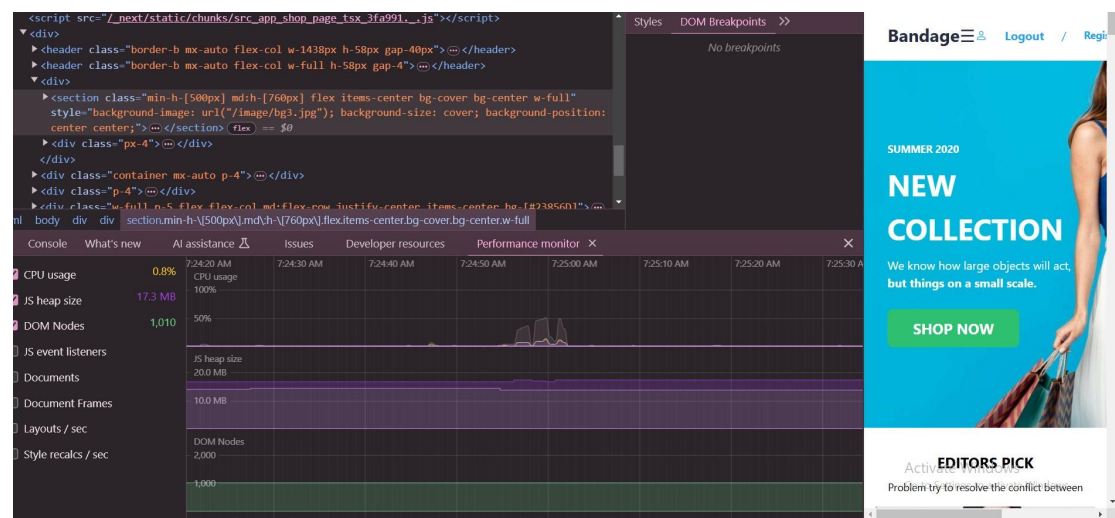
On the right, a Bandage website mockup is shown. It features a blue header with 'SUMMER 2020' and 'NEW COLLECTION' text, a 'SHOP NOW' button, and a woman in a blue top and white skirt. Below the main content, there is an 'EDITORS PICK' section with a 'Problem try to resolve the conflict between' message.

Security measures



The screenshot shows the Chrome DevTools Security panel. The 'Overview' tab is selected, and a warning message is displayed: 'This page has a non-HTTPS secure origin.' The message is accompanied by a lock icon and a warning triangle. The 'Main origin' section is expanded, showing the 'Reload to view det...' button.

Performance optimization



The screenshot shows the Chrome DevTools Performance monitor. The 'Performance' tab is selected, and a timeline is visible. The timeline shows various events, including 'CPU usage', 'JS heap size', 'DOM Nodes', 'JS event listeners', 'Documents', 'Document Frames', 'Layouts / sec', and 'Style recalcs / sec'. The 'CPU usage' section is expanded, showing a graph of CPU usage over time. The 'JS heap size' section is also expanded, showing a graph of heap size over time. The 'DOM Nodes' section is expanded, showing a graph of DOM nodes over time. The 'JS event listeners' section is expanded, showing a graph of event listeners over time. The 'Documents' section is expanded, showing a graph of documents over time. The 'Document Frames' section is expanded, showing a graph of document frames over time. The 'Layouts / sec' section is expanded, showing a graph of layouts over time. The 'Style recalcs / sec' section is expanded, showing a graph of style recalculations over time.

On the right, the same Bandage website mockup is shown as in the previous section. It features a blue header with 'SUMMER 2020' and 'NEW COLLECTION' text, a 'SHOP NOW' button, and a woman in a blue top and white skirt. Below the main content, there is an 'EDITORS PICK' section with a 'Problem try to resolve the conflict between' message.

Cross Browser and Device Testing:

To ensure my website looks good and works correctly across different platforms, I tested:

Browsers: I manually checked the website on Chrome, Firefox, Safari, and Edge to ensure consistency across all browsers. Devices: I tested the website on both desktop and mobile devices to ensure responsiveness and that the layout adjusts properly for smaller screens.

In conclusion, all tasks for Day 5 have been successfully completed