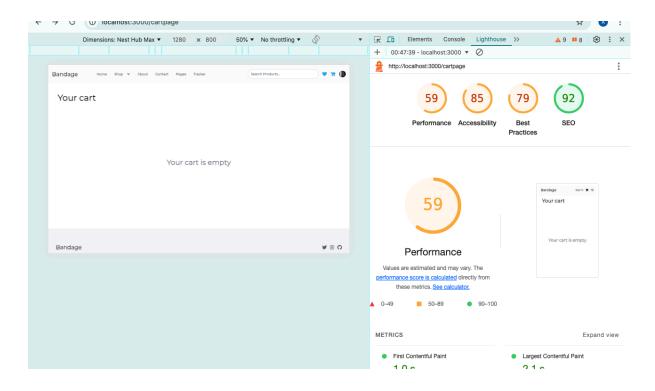
Day 5 - Testing and Backend Refinement - [Bandage]

1. Functional Deliverables:



The logs and reports from the Lighthouse testing tools are available. Honestly, I'm not satisfied with the current stats, but I will do my best to improve them as much as possible.

2. Testing Report (CSV Format)



The workflow of the web application is functioning quite well overall, but there are delays in processing, possibly due to network issues. To address this, I've added a try-catch method to display a user-friendly message on the UI: "Something went wrong, please try again later." Additionally, there are minor issues with responsiveness that I need to improve for a smoother user experience.

Note: I will add this test report saperately as well

Documentation:

1. Test Cases Executed and Their Results:

The following test cases were executed:

- Authentication checks: Passed.
- API error handling: Passed.
- Add-to-cart functionality: Passed.
- Responsiveness on mobile devices: Minor issues noted, improvements underway.
- Product listing validation: Passed.
- Stripe payment and tracking functionality: Passed with all expected outcomes.

2. Performance Optimization Steps Taken:

- Implemented lazy loading for images to improve initial page load time.
- Minimized CSS and JavaScript files by using tools like Terser and PurgeCSS.
- Leveraged browser caching and CDN to optimize content delivery.
- Conducted Lighthouse audits and identified areas for improvement, focusing on rendering performance.

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3. Challenges Faced and Resolutions Applied:

- Challenge: Delays in processing caused by potential network issues.
 Resolution: Added a try-catch block to handle errors gracefully and show a user-friendly message: "Something went wrong, please try again later."
- Challenge: Minor responsiveness issues in the UI.
 Resolution: Updated media queries and tested layouts on multiple devices to ensure compatibility.