

HACKATHON 3

DAY 5

TESTING, ERROR HANDLING, AND BACKEND

Functional Testing:

- Test core functionalities like product listing, detail pages, cart operations, and user profile management.

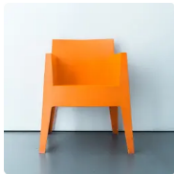
Cart Operation:

- Item added successfully! Proceed to checkout when you're ready

Your Shopping Cart

Cart 3

Bag






Citrus Edge

MRP:\$20

Ashen Slate/Cobalt Bliss

Quantity 1





Nordic Spin

MRP:\$20

Ashen Slate/Cobalt Bliss

Quantity 1

Summary

Subtotal	\$60.00
Estimated Delivery and Handling	Free
Total	\$60.00


Member Checkout

Checkout Page:

Address


Subject

Message




Citrus Edge

\$20



Nordic Spin

\$20



Rose Luxe Armchair

\$20

Total Price: \$60.00

Submit

Work Contact Form:

Full Name

Your Full Name

Email address

email.address@gmail.com

Subject

Your Subject

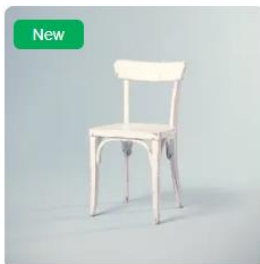
Message

Hi! id like to ask about

Submit

Product Listing:

Featured Products



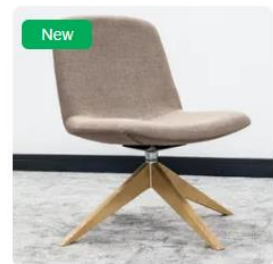
Library Stool Chair
\$20



Scandi Dip Set
\$20



SleekSpin
\$20



Nordic Spin
\$20



Detail Pages:

- Detail Pages with dynamic Routing and add to card functionality.



SleekSpin

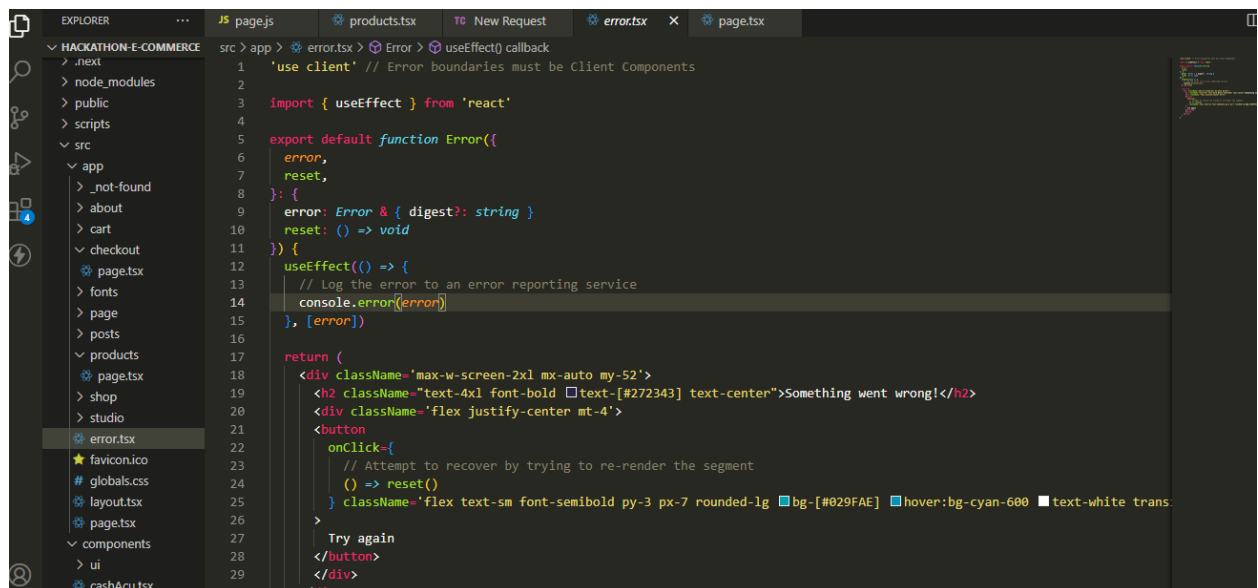
\$20.00 USD

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam tincidunt erat enim. Lorem ipsum dolor sit amet, consectetur adipiscing

 Add to Cart

Error Handling:

- Implement proper error messages for:
- Display fallback UI elements (e.g., "Something went wrong!" when the API returns no data).

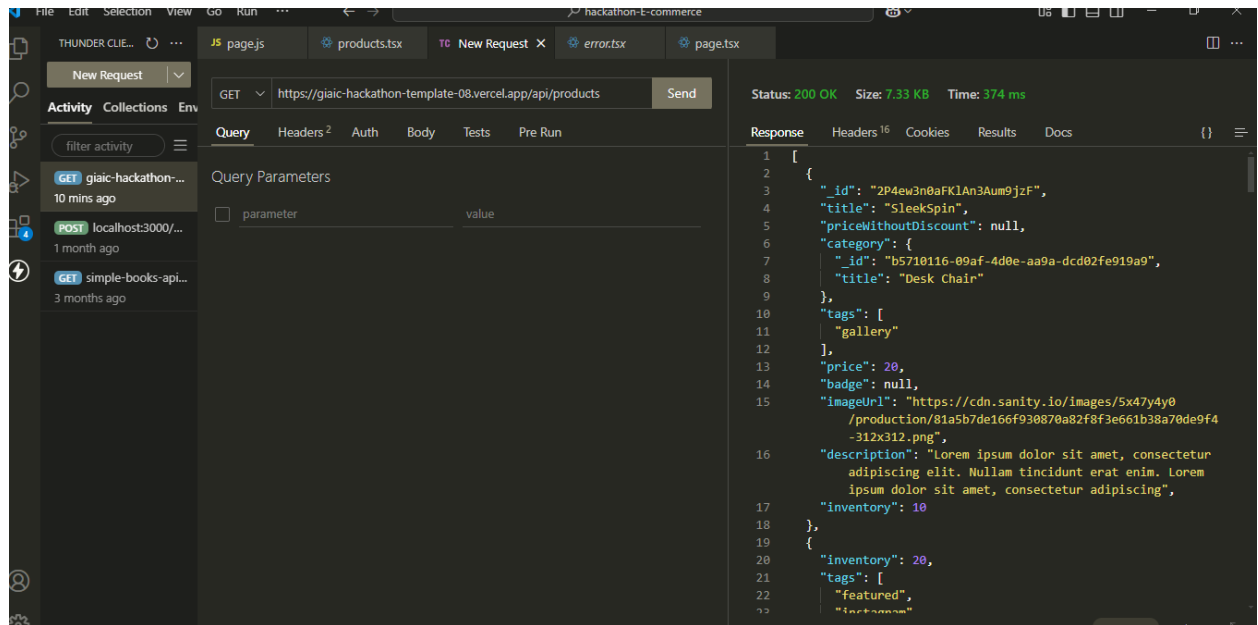


```
EXPLORER  JS  page.js  products.tsx  New Request  error.tsx  page.tsx
HACKATHON-E-COMMERCE
  .next
  node_modules
  public
  scripts
  src
    app
      _not-found
      about
      cart
      checkout
      page.tsx
      fonts
      page
      posts
      products
        page.tsx
        shop
        studio
      error.tsx
    favicon.ico
    globals.css
    layout.tsx
    page.tsx
  components
    ui
    cashAcu.tsx

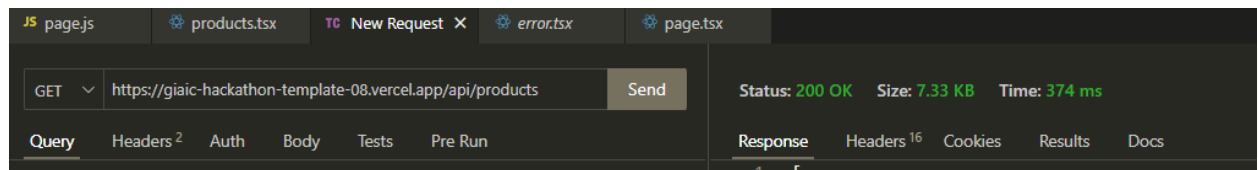
src > app > error.tsx > Error > useEffect() callback
1  'use client' // Error boundaries must be Client Components
2
3  import { useEffect } from 'react'
4
5  export default function Error({
6    error,
7    reset,
8  }) {
9    error: Error & { digest?: string }
10   reset: () => void
11 } {
12   useEffect(() => {
13     // Log the error to an error reporting service
14     console.error(error)
15   }, [error])
16
17   return (
18     <div className='max-w-screen-2xl mx-auto my-52'>
19       <h2 className='text-4xl font-bold text-[#272343] text-center'>Something went wrong!</h2>
20       <div className='flex justify-center mt-4'>
21         <button
22           onClick={
23             // Attempt to recover by trying to re-render the segment
24             () => reset()
25           }
26           className='flex text-sm font-semibold py-3 px-7 rounded-lg bg-[#029FAE] hover:bg-cyan-600 text-white trans
27         >
28         Try again
29       </button>
30     </div>
31   )
32 }
```

Performance Testing:

- APIs Get Successfully working



200 Ok

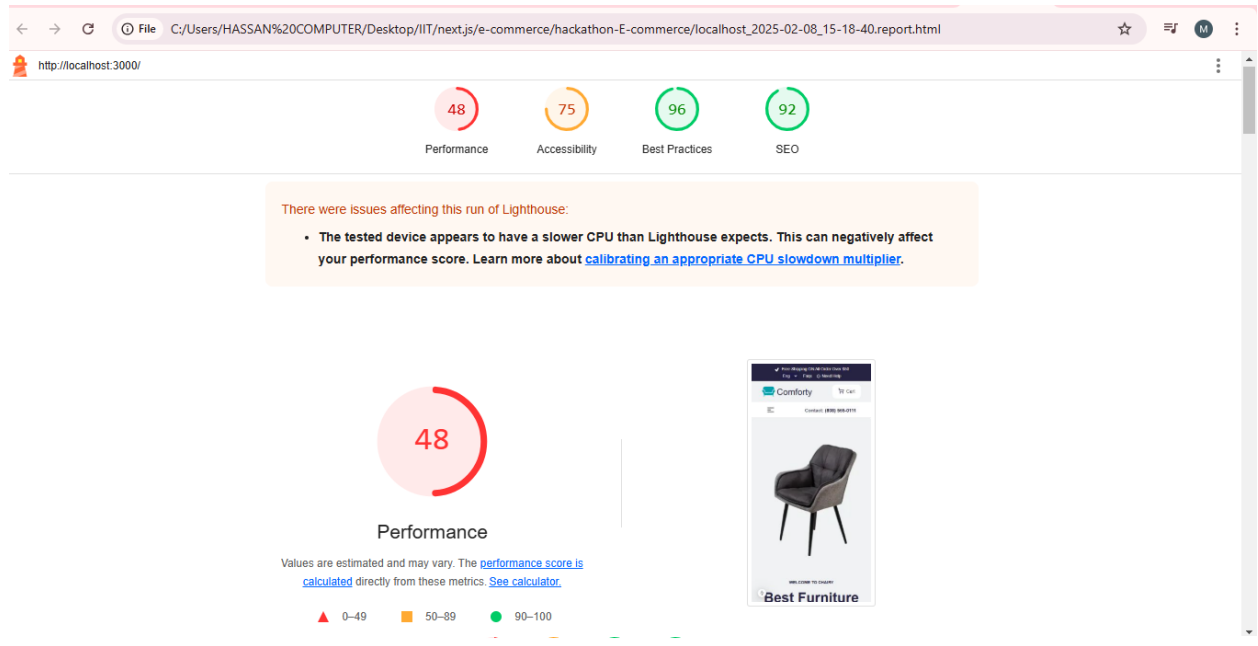


Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
2	TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Low	- No issues found
3	TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	- Handled gracefully
4	TC003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	- Works as expected
5	TC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	- Test successful

Performance Optimization:

npm install -g lighthouse

lighthouse http://localhost:3000 --view



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.

NAMES AND LABELS

- ▲ Buttons do not have an accessible name
- ▲ Links do not have a discernible name
- ▲ Select elements do not have associated label elements

These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.



Best Practices

USER EXPERIENCE

- ▲ Displays images with incorrect aspect ratio

TRUST AND SAFETY

- Ensure CSP is effective against XSS attacks
- Use a strong HSTS policy
- Ensure proper origin isolation with COOP



SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more about Google Search Essentials](#).

CRAWLING AND INDEXING

- ▲ robots.txt is not valid Lighthouse was unable to download a robots.txt file

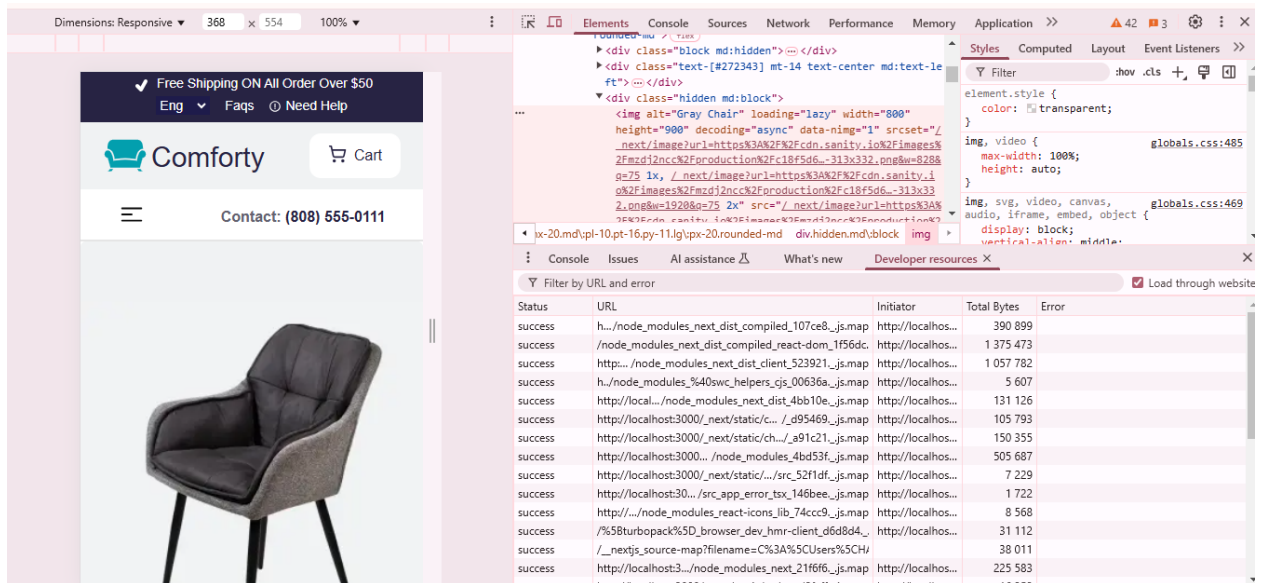
To appear in search results, crawlers need access to your app.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

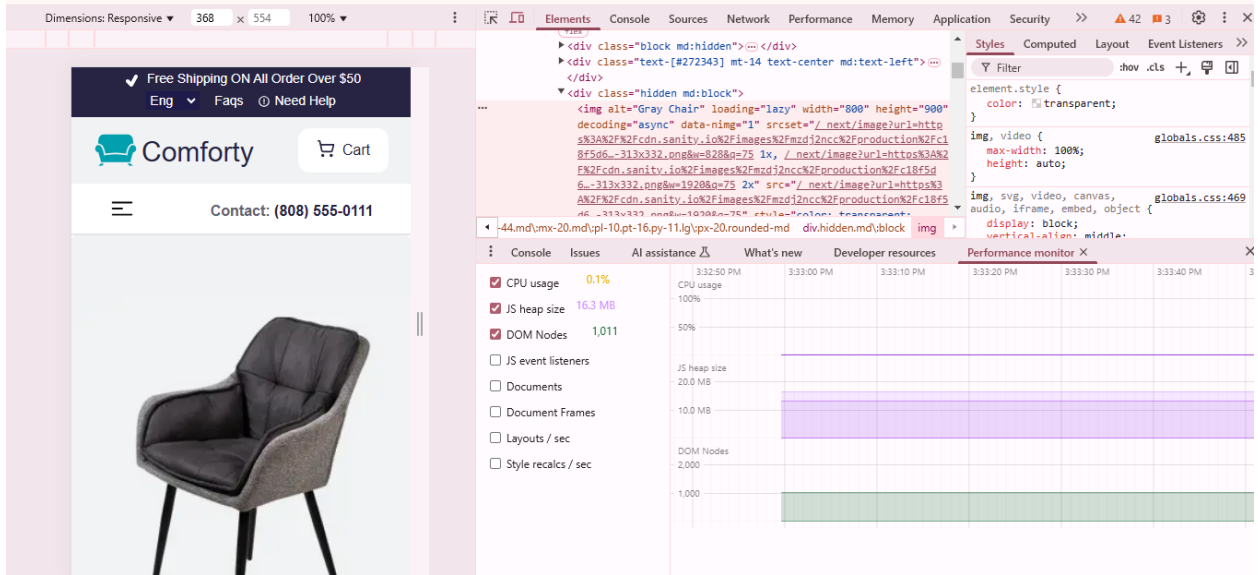
Show

Run these additional validators on your site to check additional SEO best practices.

Developer Resources:



Performance monitor:



Security Overview:

