General E-Commerce

Testing and Backend Refinement

"LuxeSeaters"

Owner: "Syed Hamail"

- **Test Core Features:**

- All the products on the website are displayed properly.

Featured Products

Nautilus Lounge Chair

Rs 1450 ~~Rs 1624~~

Futuristic Sleek Modern ...

Rs 2000

Leisure Sofa Chair Set

Rs 1800 ~~Rs 2124~~

- Add to Cart working properly.

- Remove Item from cart working properly.

Before:

After:

Your Cart

Luxury Flower Shell Sofa Chair - Rs 2500
Remove

Alpha Chair – Solid Ebonised Oak - Rs 900
Remove

Leisure Sofa Chair Set - Rs 1800
Remove

Nordic Net Red Chair - Rs 320
Remove

Uchiwa Quilted Lounge Chair - Rs 1600
Remove

View Cart

Close

Your Cart

Luxury Flower Shell Sofa Chair - Rs 2500
Remove

Alpha Chair – Solid Ebonised Oak - Rs 900
Remove

Leisure Sofa Chair Set - Rs 1800
Remove

Nordic Net Red Chair - Rs 320
Remove

View Cart

Close

- Remove all Item's from cart working properly.

Before:

After:

localhost:3000/ShoppingCart

Product	Price	Quantity	Total

Your cart is empty.

Clear Cart

Cart Totals

Subtotals:	Rs 0
Shipping:	Rs 0
Totals:	Rs 0

Proceed To Checkout

- Filtering products working properly.

If i choose 1 Filter then it's works...

If i choose 1+ Filter then it's also works...

localhost:3000/Products

Discount Item

☐ 25%

☐ 15%

☑ 10%

Rating Item

☐ ★★★★★

☐ ★★★★★

☑ ★★★★★

☐ ★★★★★

☐ ★★★★★

Price Filter

☐ $1 - $500

☑ $500 - $1000

☐ $1000 - $1500

☐ $1500+

Reset Filters

Diondre Chair - Tuft Button - Acrylic Legs

Rs 720 ~~Rs 770~~ ★ ★ ★ ★ ★ (1600)

In Stock: 10

A tufted chair with acrylic legs for a chic, modern touch.

View Details

If i choose that Filter in which there is no matching product, so it will show No product found.

localhost:3000/Products

Discount Item

☐ 25%

☐ 15%

☑ 10%

Rating Item

☑ ★★★★★

☐ ★★★★★

☐ ★★★★★

☐ ★★★★★

☐ ★★★★★

Price Filter

☐ $1 - $500

☑ $500 - $1000

☐ $1000 - $1500

☐ $1500+

Reset Filters

No products found.

- Detail page of the Product working properly.

localhost:3000/ProductDetails/17

Varmora Plastic Chair Solid

★★★★★ (800)

Rs 100 ~~Rs 125~~

In Stock: 100

Category: Chair

Description: Durable and lightweight plastic chair for everyday use.

Share:

Add To Cart   ❤️
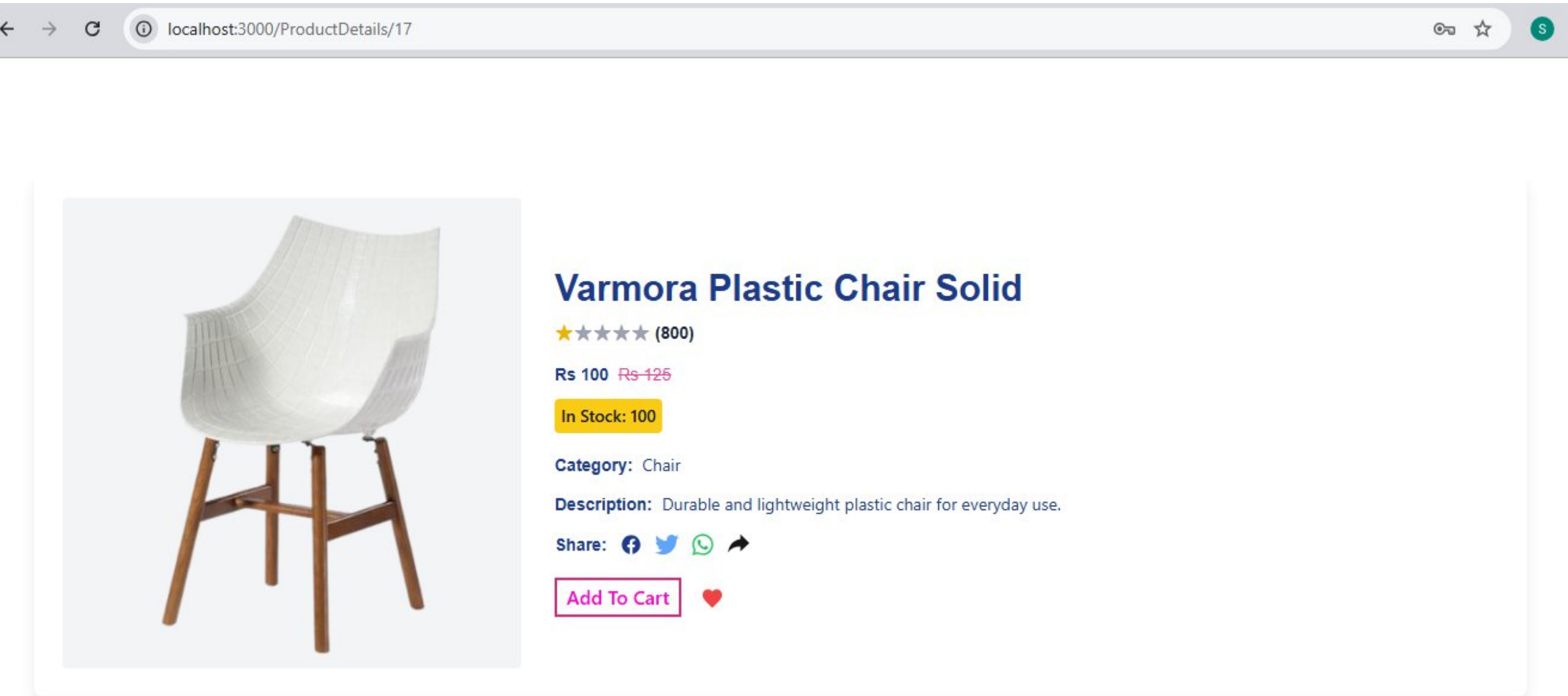
- **<u>Responsiveness:</u>**

- Whole website is responsive on all screen.
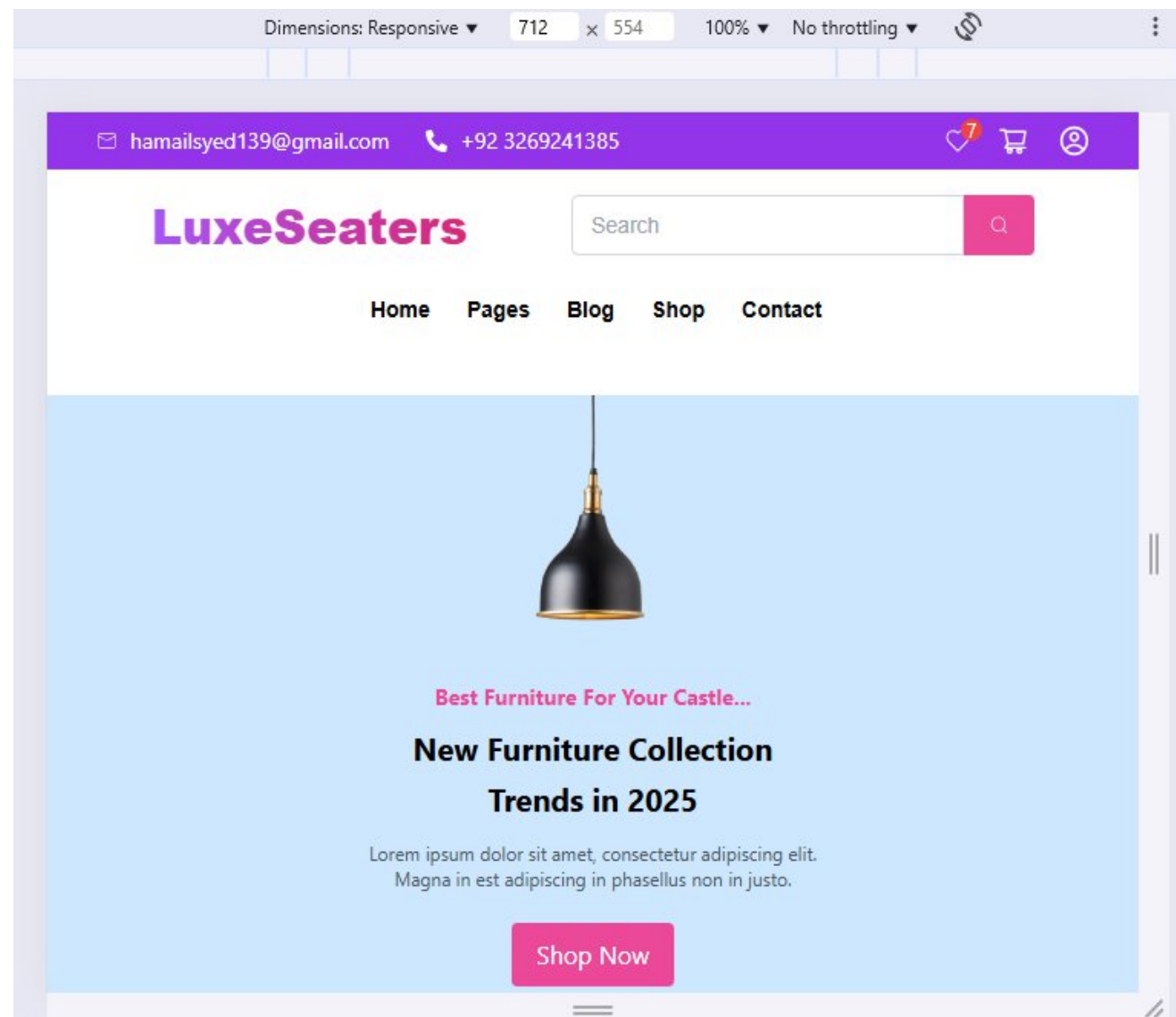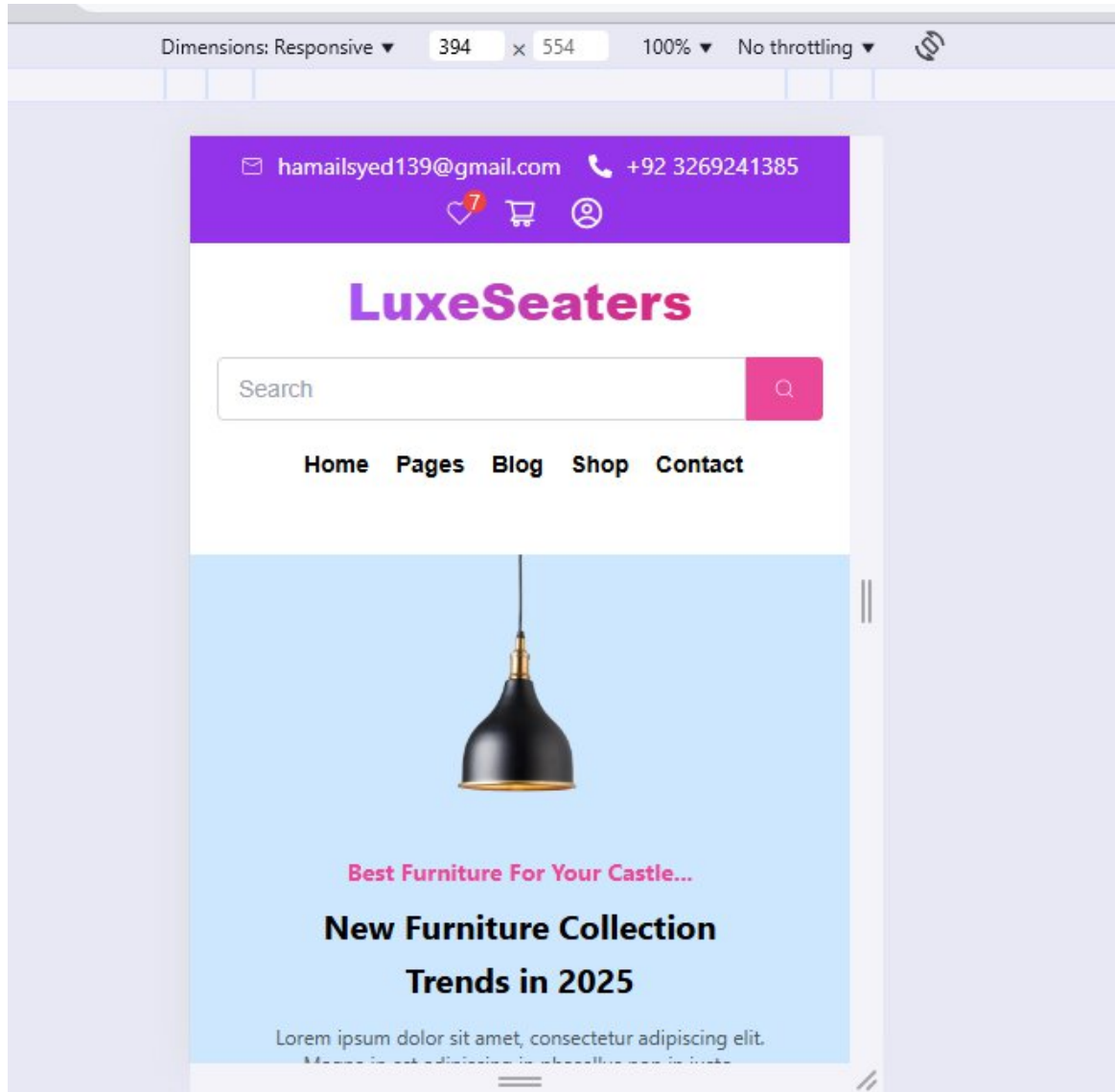
- **API Response Testing:**
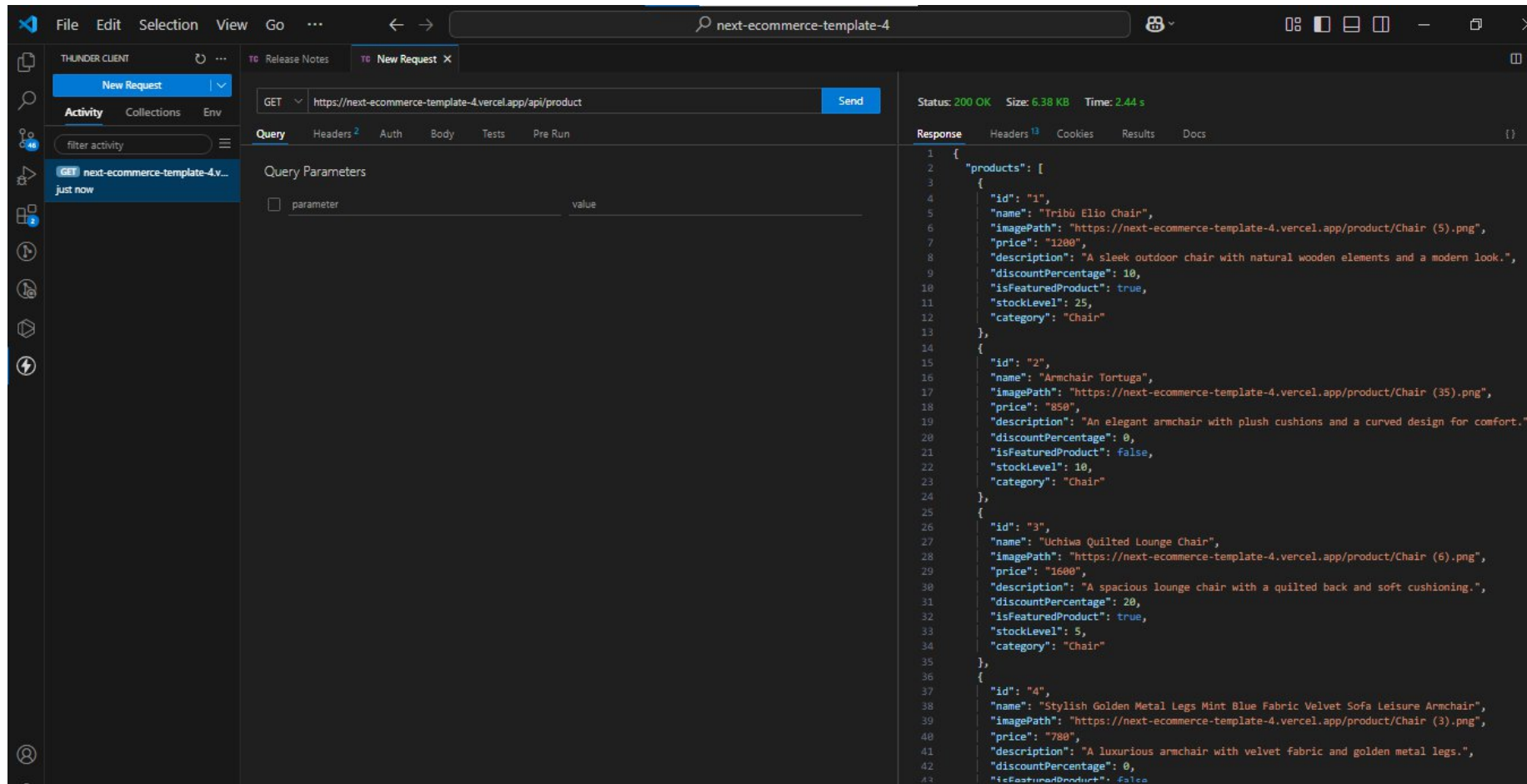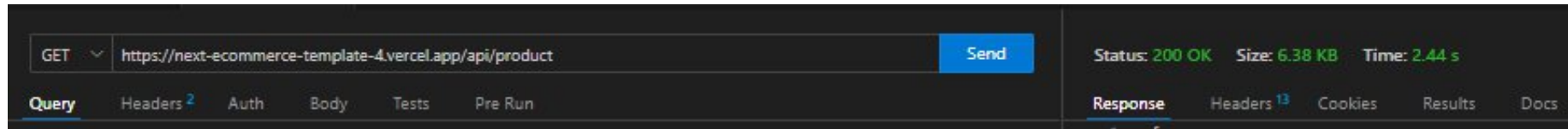
- **Testing Report:**

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Low	-	No issues found
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-	Handled gracefully
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
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 (using lighthouse):**

http://localhost:3000/

35	76	96	91
Performance	Accessibility	Best Practices	SEO
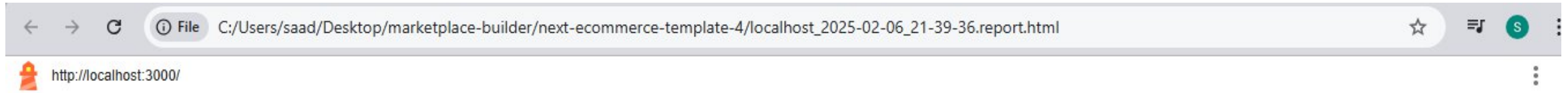
There were issues affecting this run of Lighthouse:

- **The page loaded too slowly to finish within the time limit. Results may be incomplete.**

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Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

▲ 0–49   ■ 50–89   ● 90–100

METRICS

http://localhost:3000/

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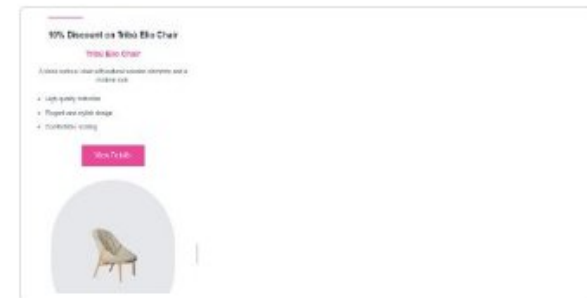
METRICS

Expand view

● First Contentful Paint

1.3 s

▲ Largest Contentful Paint

27.6 s

▲ Total Blocking Time

10,760 ms

● Cumulative Layout Shift

0.003

▲ Speed Index

25.7 s

⊞ View Treemap

Show audits relevant to: All   FCP   LCP   TBT   CLS

DIAGNOSTICS

▲ Reduce JavaScript execution time   — 18.6 s   ⌄

▲ Minimize main-thread work   — 29.3 s   ⌄

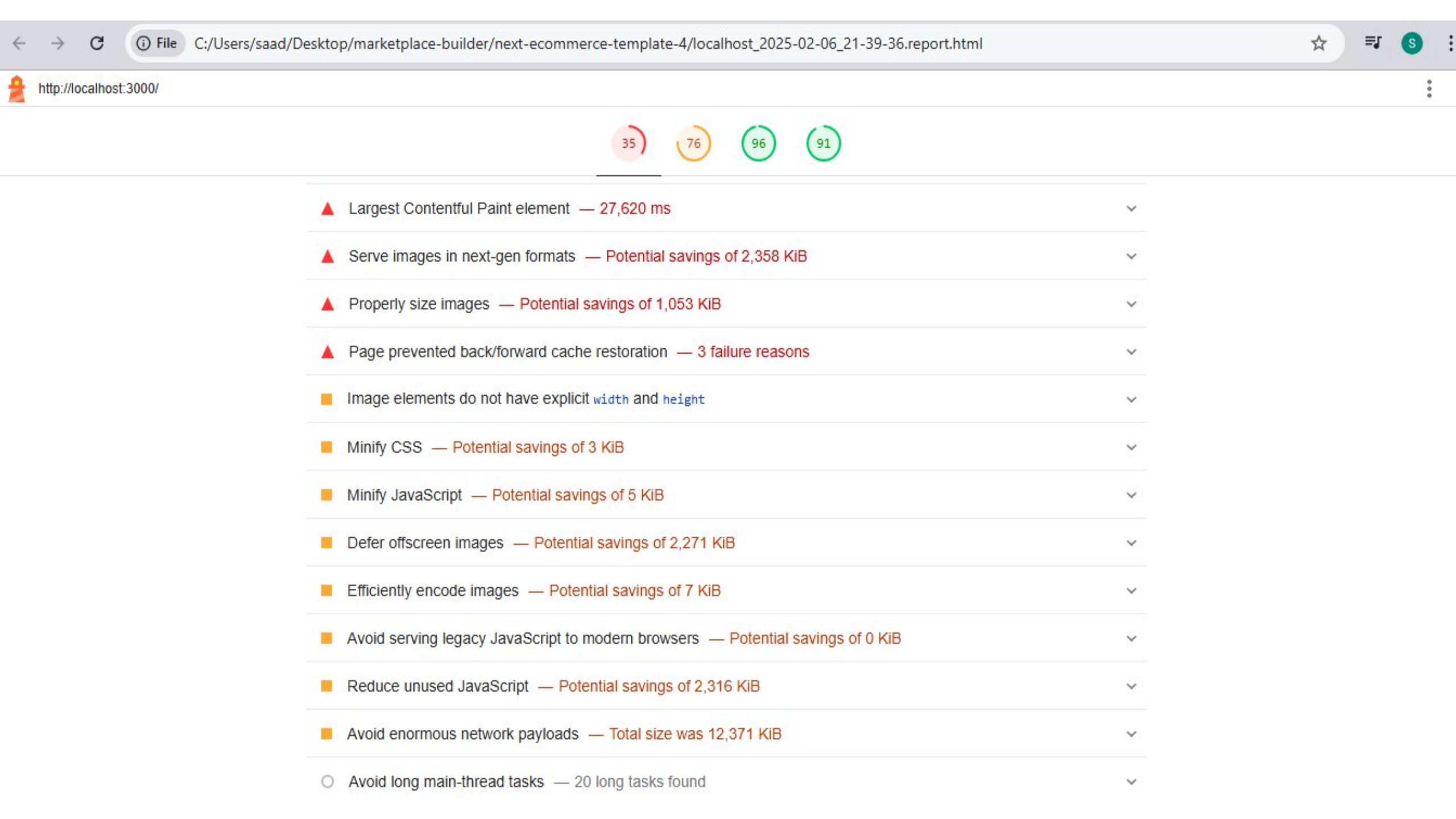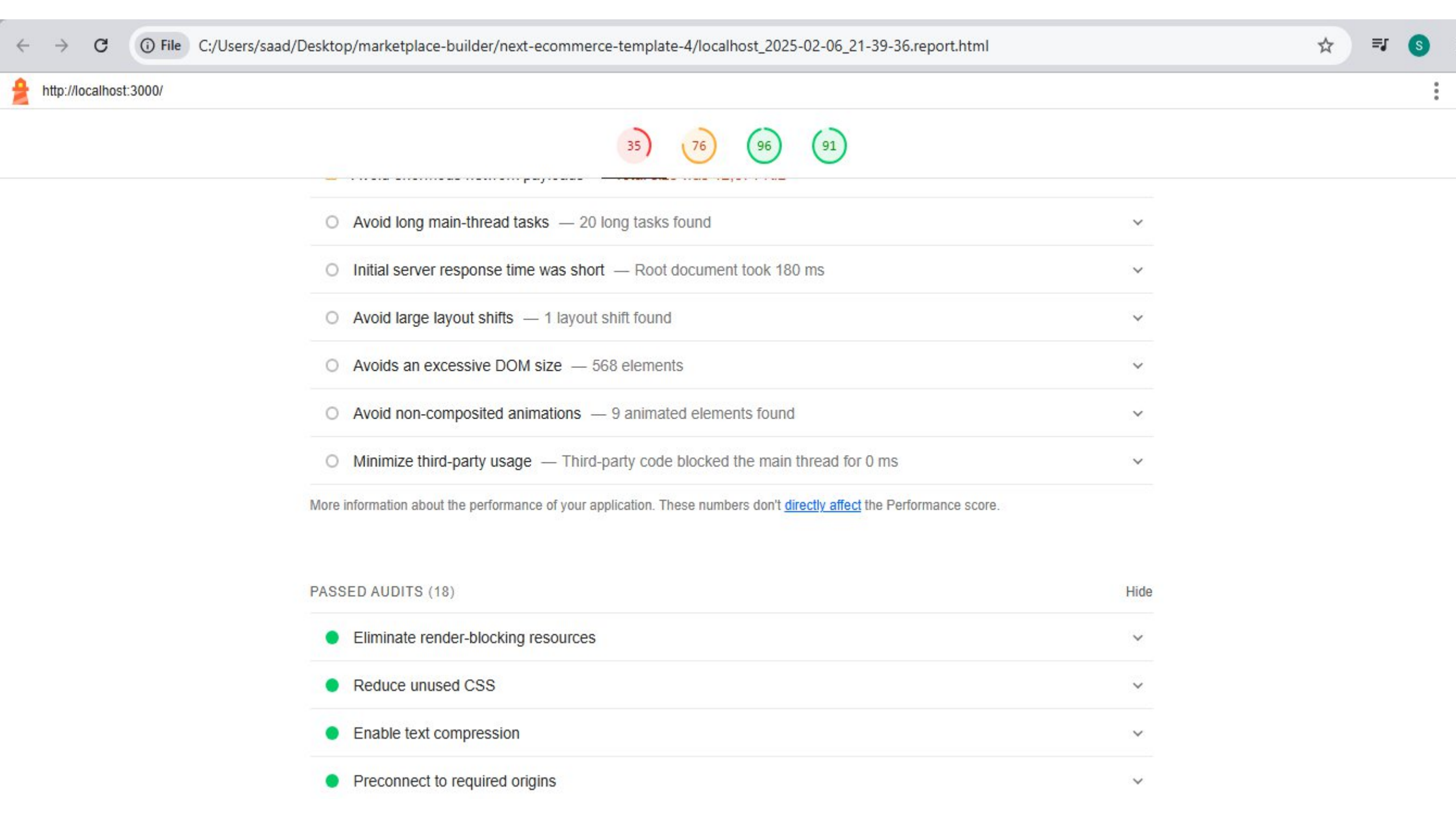35   76   96   91

▲ Largest Contentful Paint element — 27,620 ms

▲ Serve images in next-gen formats — Potential savings of 2,358 KiB

▲ Properly size images — Potential savings of 1,053 KiB

▲ Page prevented back/forward cache restoration — 3 failure reasons

■ Image elements do not have explicit `width` and `height`

■ Minify CSS — Potential savings of 3 KiB

■ Minify JavaScript — Potential savings of 5 KiB

■ Defer offscreen images — Potential savings of 2,271 KiB

■ Efficiently encode images — Potential savings of 7 KiB

■ Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 KiB

■ Reduce unused JavaScript — Potential savings of 2,316 KiB

■ Avoid enormous network payloads — Total size was 12,371 KiB

○ Avoid long main-thread tasks — 20 long tasks found

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Avoid long main-thread tasks — 20 long tasks found ⌄

Initial server response time was short — Root document took 180 ms ⌄

Avoid large layout shifts — 1 layout shift found ⌄

Avoids an excessive DOM size — 568 elements ⌄

Avoid non-composited animations — 9 animated elements 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 (18)   Hide

● Eliminate render-blocking resources ⌄

● Reduce unused CSS ⌄

● Enable text compression ⌄

● Preconnect to required origins ⌄

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● Avoid multiple page redirects ⌄

● Use HTTP/2 ⌄

● Use video formats for animated content ⌄

● Remove duplicate modules in JavaScript bundles ⌄

● Preload Largest Contentful Paint image ⌄

● Uses efficient cache policy on static assets — 0 resources found ⌄

○ Avoid chaining critical requests ⌄

○ User Timing marks and measures ⌄

● All text remains visible during webfont loads ⌄

○ Lazy load third-party resources with facades ⌄

● Largest Contentful Paint image was not lazily loaded ⌄

● Uses passive listeners to improve scrolling performance ⌄

● Avoids `document.write()` ⌄

- Largest Contentful Paint image was not lazily loaded ⌄

- Uses passive listeners to improve scrolling performance ⌄

- Avoids `document.write()` ⌄

- Has a `<meta name="viewport">` tag with `width` or `initial-scale` ⌄

http://localhost:3000/

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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   ⌄

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.

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CONTRAST

⚠️ ▲ Background and foreground colors do not have a sufficient contrast ratio. ⌄

These are opportunities to improve the legibility of your content.

TABLES AND LISTS

▲ List items (`<li>`) are not contained within `<ul>`, `<ol>` or `<menu>` parent elements. ⌄

These are opportunities to improve the experience of reading tabular or list data using assistive technology, like a screen reader.

BEST PRACTICES

▲ Touch targets do not have sufficient size or spacing. ⌄

These items highlight common accessibility best practices.

NAVIGATION

▲ Heading elements are not in a sequentially-descending order ⌄

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ADDITIONAL ITEMS TO MANUALLY CHECK (10)   Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review.

PASSED AUDITS (18)   Show

NOT APPLICABLE (33)   Show

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Best Practices

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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   ⌄

GENERAL

⚠ Missing source maps for large first-party JavaScript   ⌄

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⚠ Missing source maps for large first-party JavaScript   ⌄

PASSED AUDITS (13)   Hide

● Uses HTTPS   ⌄

● Avoids deprecated APIs   ⌄

● Avoids third-party cookies   ⌄

● Allows users to paste into input fields   ⌄

● Avoids requesting the geolocation permission on page load ⌄

● Avoids requesting the notification permission on page load ⌄

● Serves images with appropriate resolution   ⌄

● Has a `<meta name="viewport">` tag with `width` or `initial-scale` ⌄

● Document uses legible font sizes — 100% legible text   ⌄

● Page has the HTML doctype   ⌄

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● Document uses legible font sizes — 100% legible text ⌄

● Page has the HTML doctype ⌄

● Properly defines charset ⌄

● No browser errors logged to the console ⌄

● No issues in the `Issues` panel in Chrome Devtools ⌄

NOT APPLICABLE (2)   Hide

○ Redirects HTTP traffic to HTTPS ⌄

○ Detected JavaScript libraries ⌄

http://localhost:3000/

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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.

CONTENT BEST PRACTICES

⚠ Links do not have descriptive text — 3 links found   ⌄

Format your HTML in a way that enables crawlers to better understand your app's content.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)   Hide

○ Structured data is valid   ⌄

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

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PASSED AUDITS (7)   Hide

● Page isn't blocked from indexing   ∨

● Document has a `<title>` element   ∨

● Document has a meta description   ∨

● Page has successful HTTP status code   ∨

● Links are crawlable   ∨

● Image elements have `[alt]` attributes   ∨

● Document has a valid `hreflang`   ∨

NOT APPLICABLE (2)   Hide

○ robots.txt is valid   ∨

○ Document has a valid `rel=canonical`   ∨

- **<u>Developer Resources:</u>**

- **Performance Monitor:**

- **Issues:**

- **<u>Security:</u>**

Day 5 Checklist:

Functional Testing:

- ✔

Error Handling:

- ✔

Performance Optimization:

- ✔

Cross-Browser and Device Testing:

- ✔

Security Testing:

- ✔

Functional Testing:

- ✔

Final Review:

- ✔

Hackathon 03

Day 05

Completed