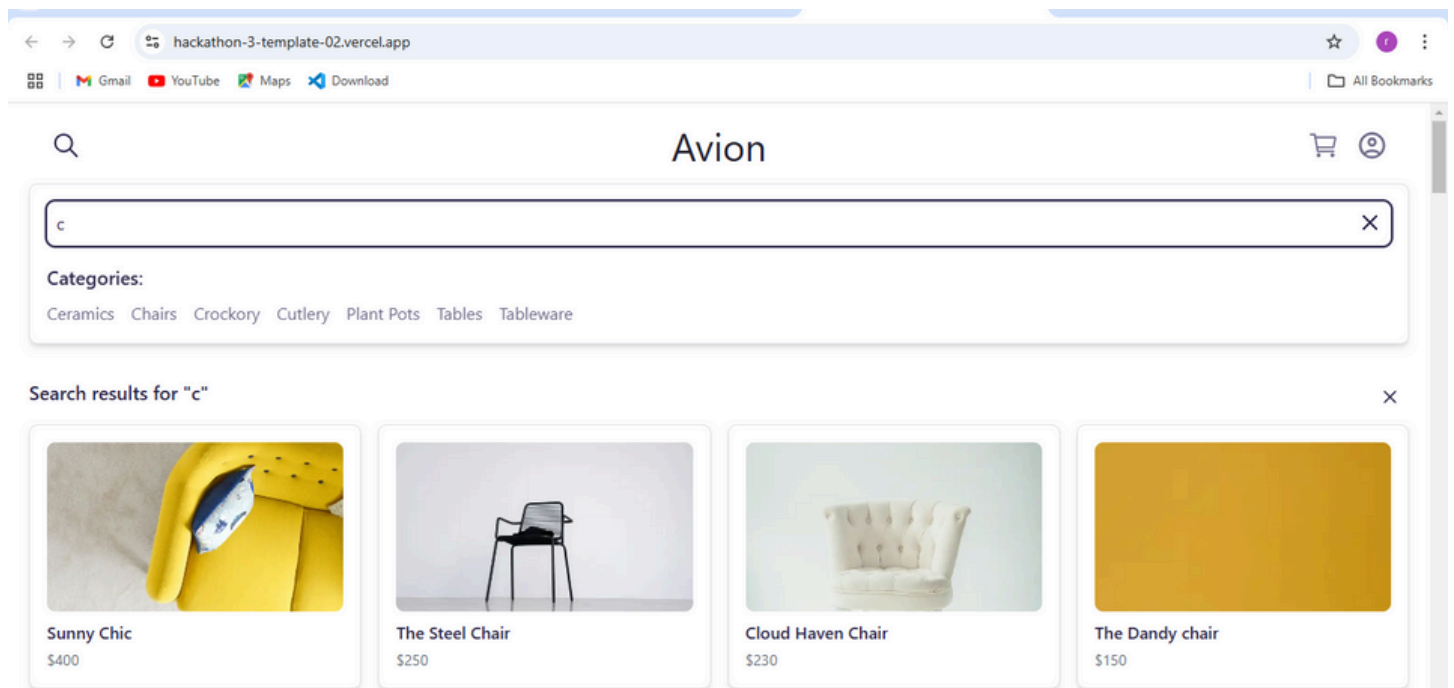# Day 6-: Staging Environment Testing [Avion E-commerce]
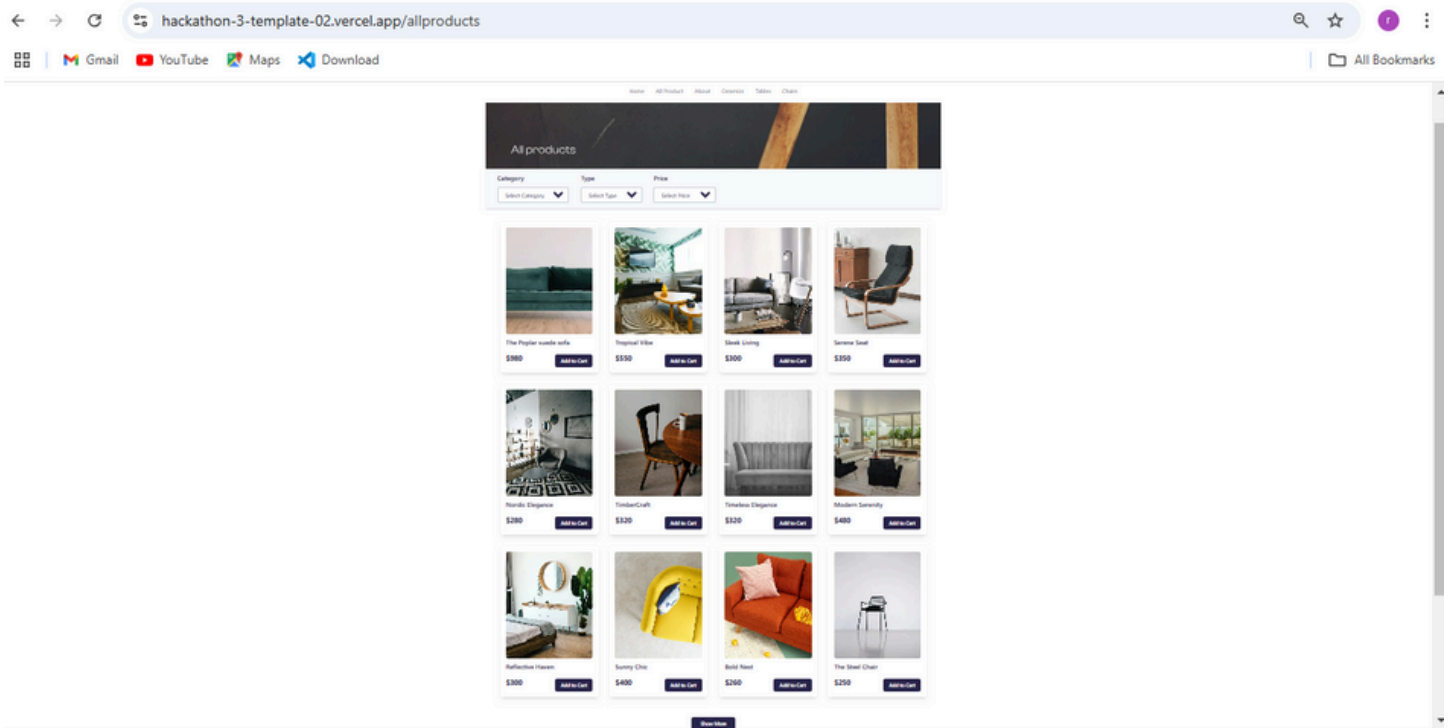
- **Testing Types:**

  ## 1. Functional Testing

- Search Bar In Action:
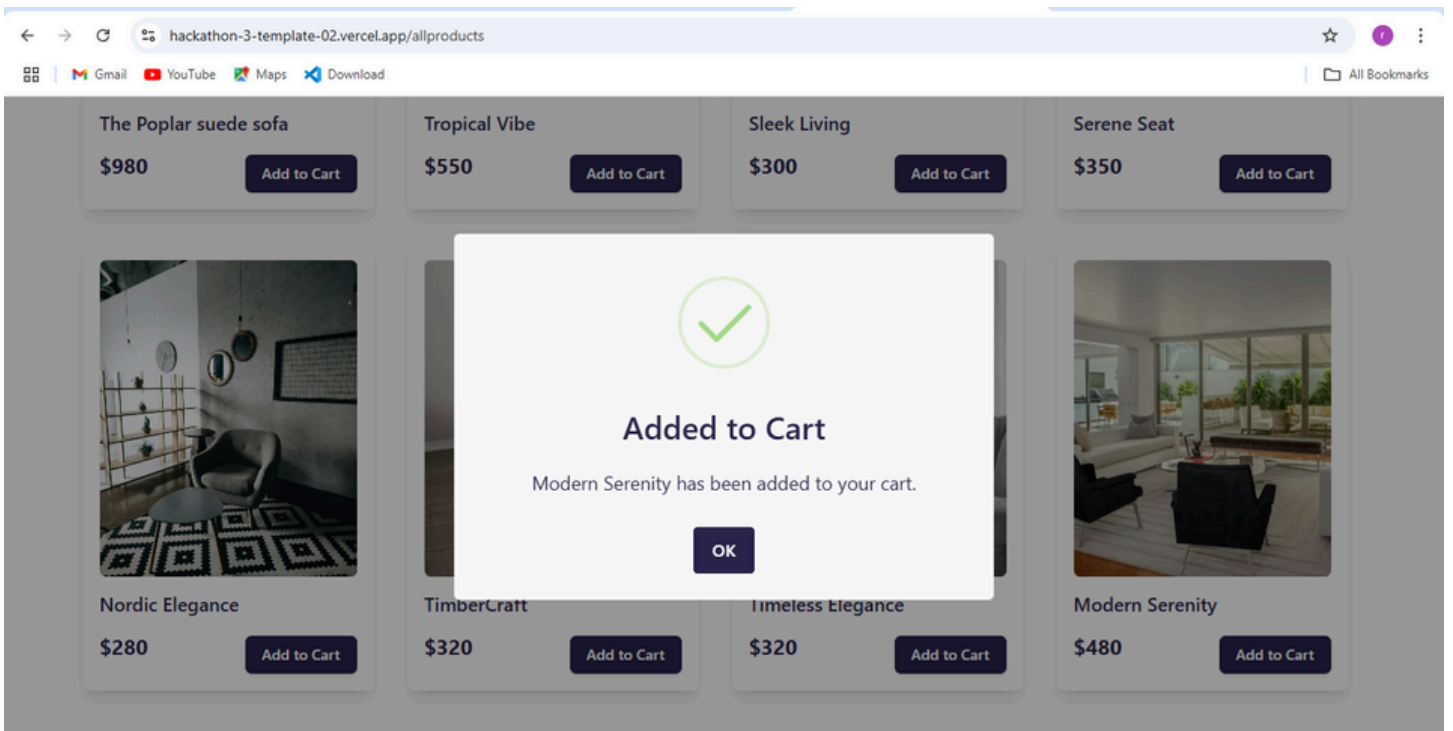

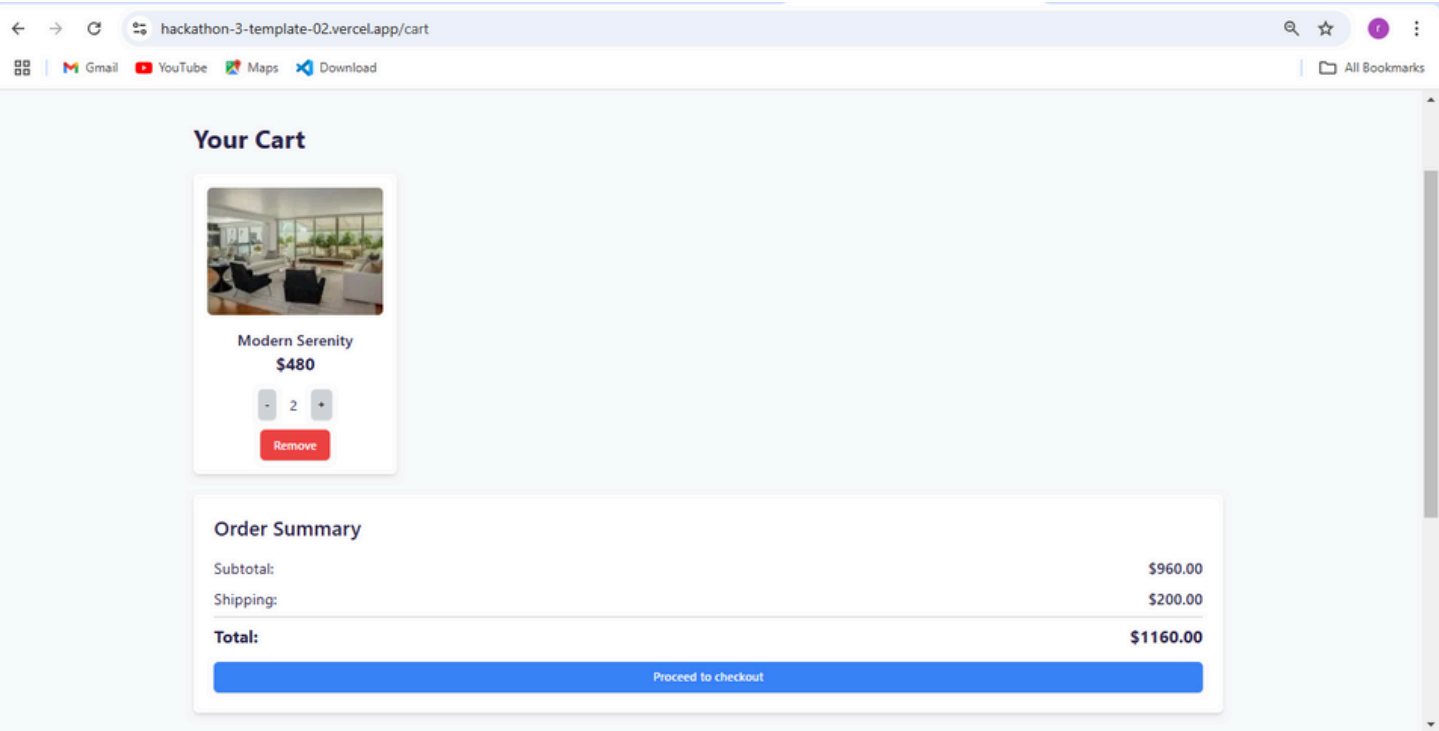- AllProducts Data Successfully Display on UI:

- Cart Operations:

1. Add to cart Message:

2. Add to Cart Icon:

3.Add to Cart Page:

• Filter in Action:
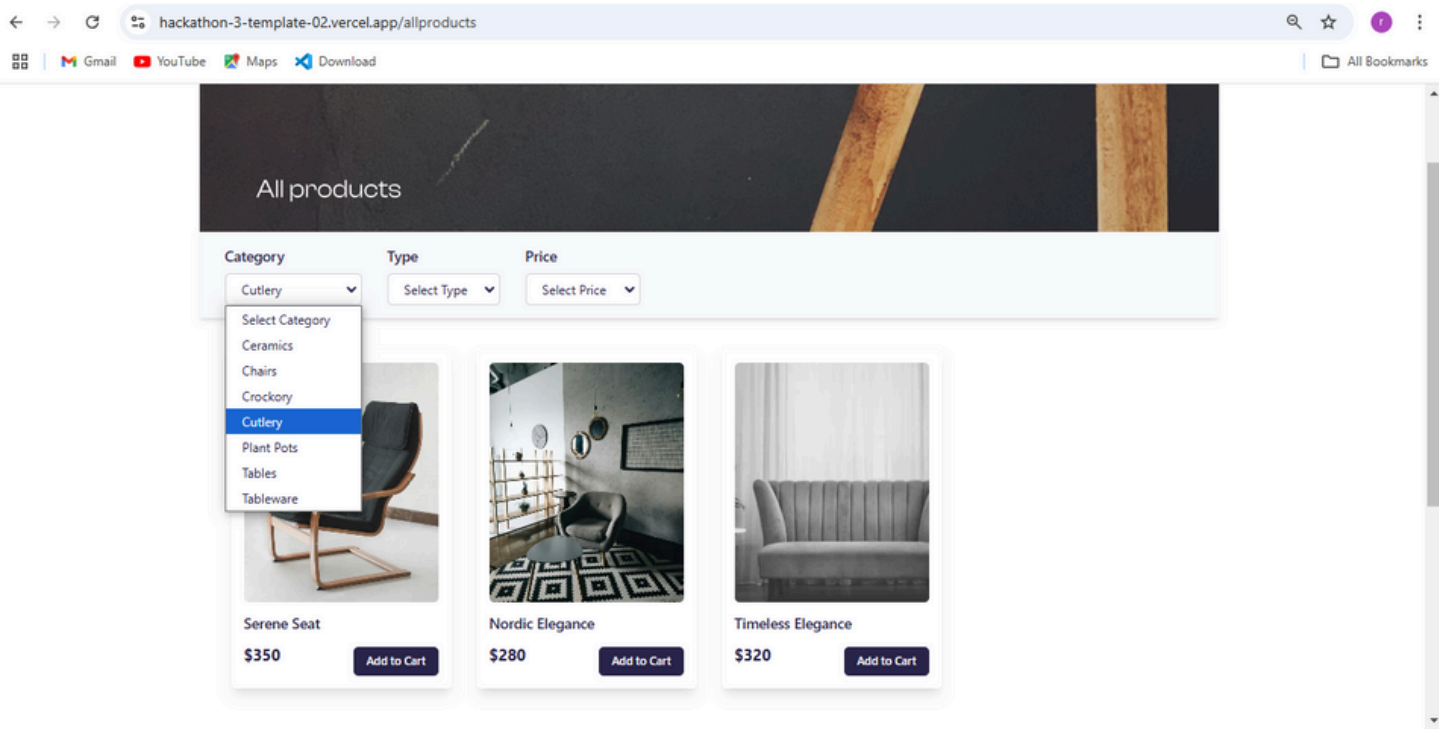
2. Performance Testing
(LightHouse Report):

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▦ | M Gmail ▶ YouTube 🗺 Maps ✖ Download | 📁 All Bookmarks

http://localhost:3000/ ⋮

67 Performance **95** Accessibility **100** Best Practices **92** SEO

67

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 Expand view

● First Contentful Paint ● Largest Contentful Paint
0.9 s 1.3 s

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http://localhost:3000/ ⋮

67 **95** **100** **92**

METRICS Expand view

● First Contentful Paint ● Largest Contentful Paint
0.9 s 1.3 s

▲ Total Blocking Time ● Cumulative Layout Shift
9,110 ms 0

■ Speed Index
4.4 s

▦ View Treemap

Show audits relevant to: **All** FCP LCP TBT

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http://localhost:3000/   ⋮

67   95   100   92

DIAGNOSTICS

▲ Minimize main-thread work — 11.3 s   ⌄

▲ Reduce JavaScript execution time — 9.3 s   ⌄

▲ Reduce initial server response time — Root document took 920 ms   ⌄

▲ Page prevented back/forward cache restoration — 4 failure reasons   ⌄

■ Minify CSS — Potential savings of 2 KiB   ⌄

■ Minify JavaScript — Potential savings of 5 KiB   ⌄

■ Eliminate render-blocking resources — Potential savings of 0 ms   ⌄

■ Properly size images — Potential savings of 24 KiB   ⌄

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

■ Avoid enormous network payloads — Total size was 7,312 KiB   ⌄

○ Avoid long main-thread tasks — 10 long tasks found   ⌄

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http://localhost:3000/   ⋮

67   95   100   92

95

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

▲ Links do not have a discernible name   ⌄

▲ Image elements have [alt] attributes that are redundant text.   ⌄

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.

← → C ⓘ File D:/Next.js/hackathon-3-template-2/hackathon-3-template-02/localhost_2025-02-02_20-21-51.report.html ☆ ⊟✓ r :

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🔒 http://localhost:3000/   ⋮
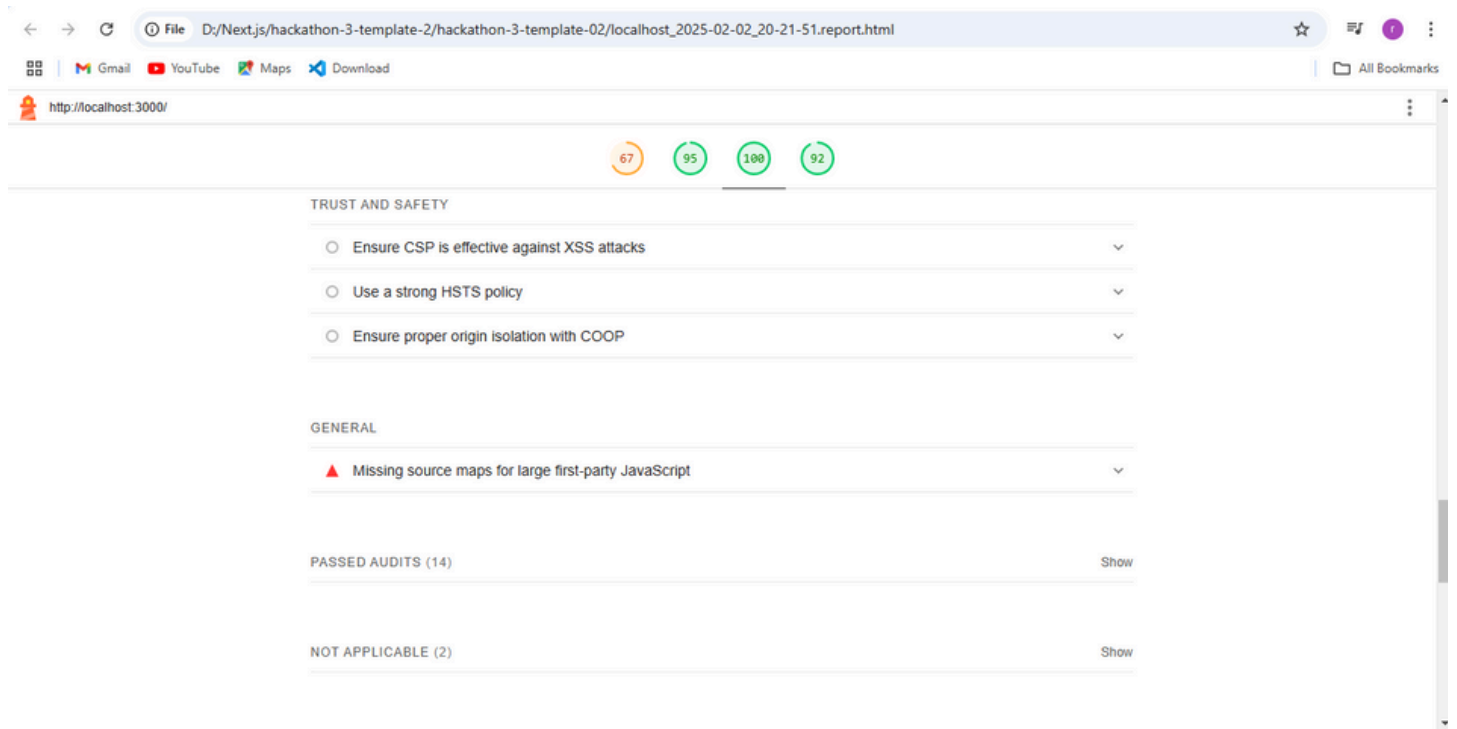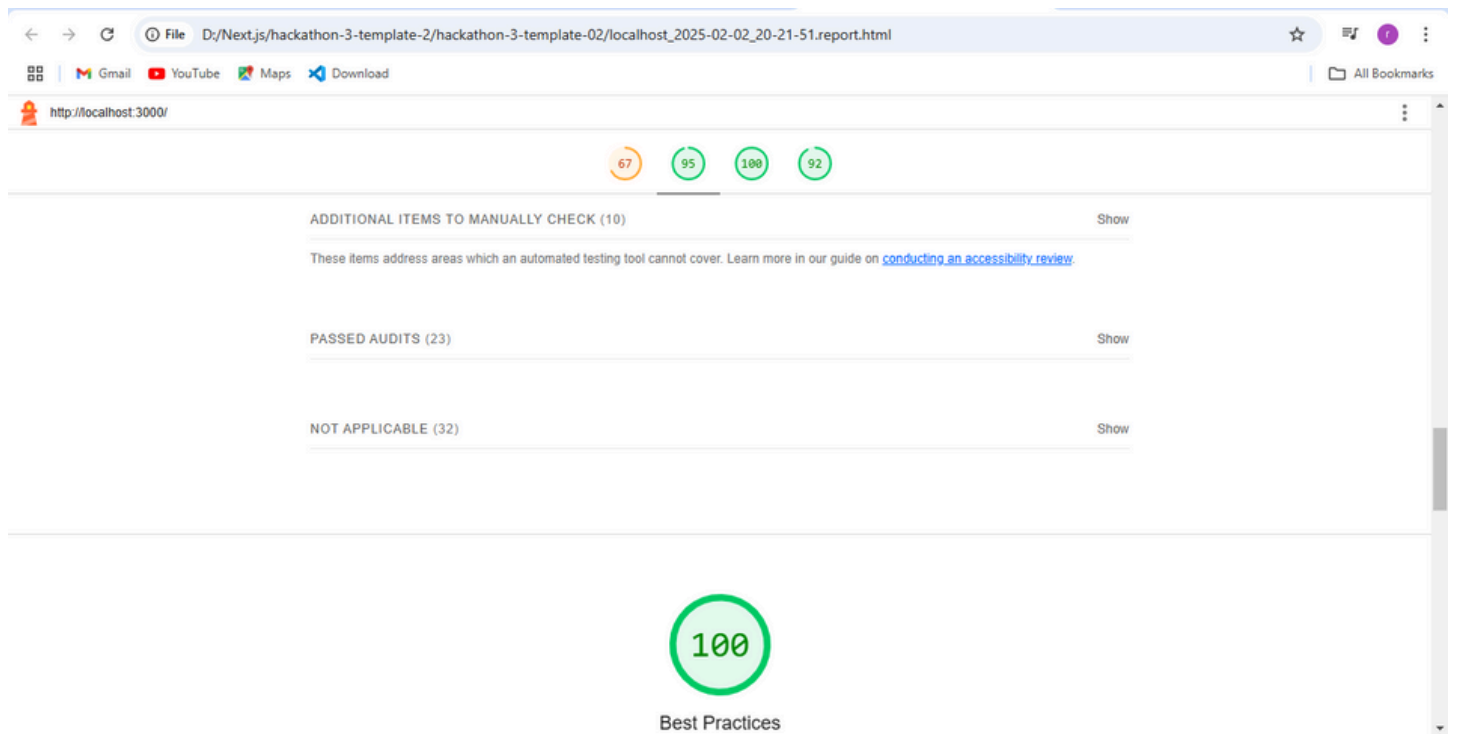
67 95 100 92

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 (23)   Show

NOT APPLICABLE (32)   Show

100

Best Practices

← → C ⓘ File D:/Next.js/hackathon-3-template-2/hackathon-3-template-02/localhost_2025-02-02_20-21-51.report.html ☆ ⊟✓ r :

▦ | M Gmail ▶ YouTube 🗺 Maps ✗ Download   ☐ All Bookmarks
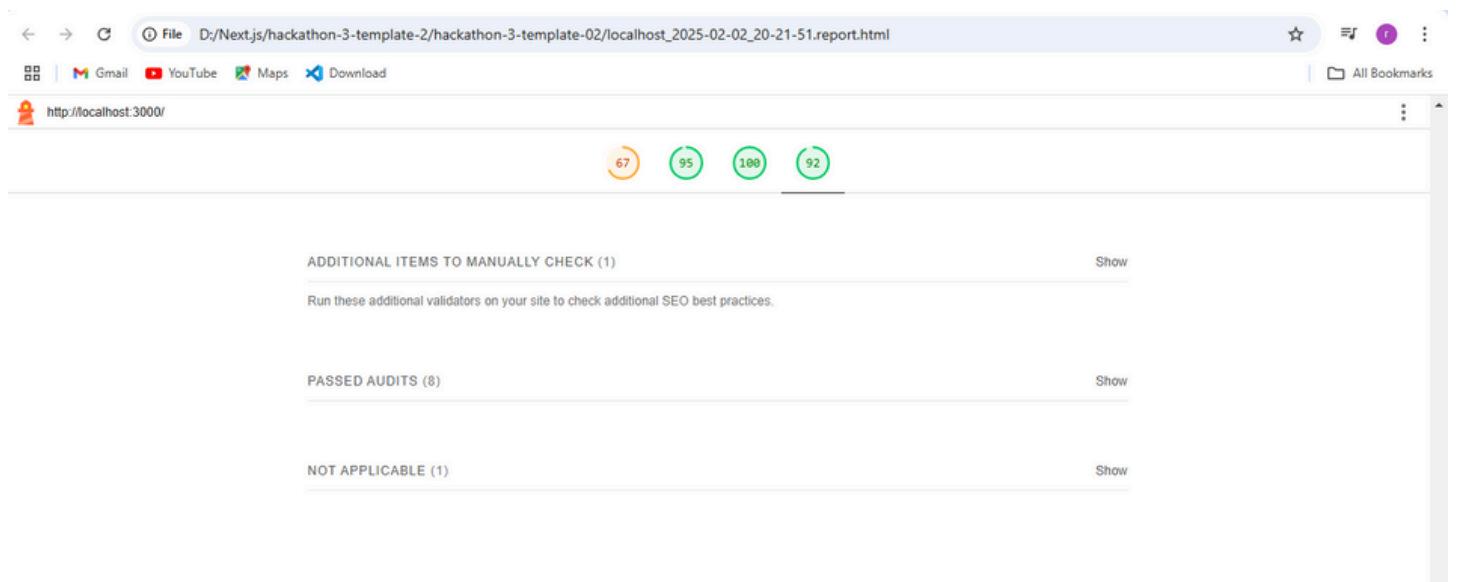
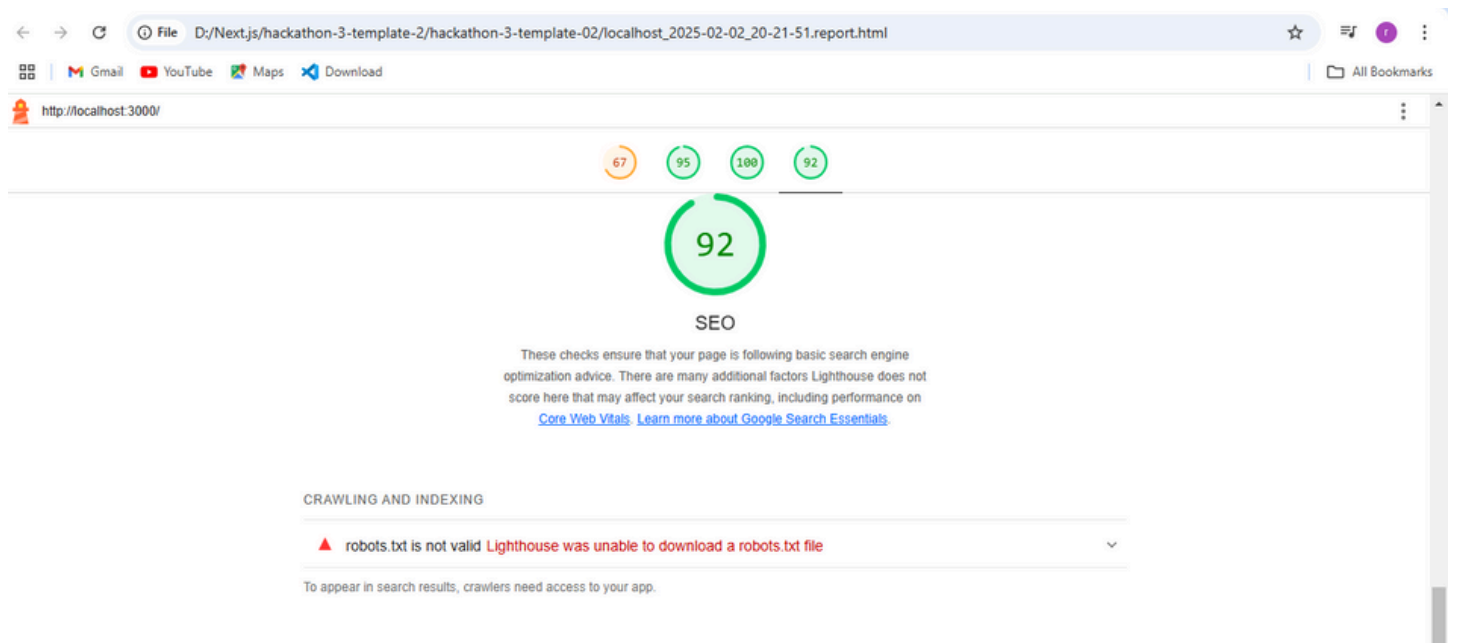🔒 http://localhost:3000/   ⋮

67 95 100 92

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   ⌄

PASSED AUDITS (14)   Show

NOT APPLICABLE (2)   Show

(67)   (95)   (100)   (92)

92

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.

---

(67)   (95)   (100)   (92)

ADDITIONAL ITEMS TO MANUALLY CHECK (1)   Show

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

PASSED AUDITS (8)   Show

NOT APPLICABLE (1)   Show

- Developer Resources:

- ## Performance Monitor:

3. Security Testing:

secure API communications:
Template-2 API (https://hackathon-apis.vercel.app/api/products)

THUNDER CLIE... ↻ ···   emics.tsx M   AboutHeader.tsx   Products.tsx M   page.tsx ...\cart M   page.tsx ...\checkout M   page.tsx ...\[slug] M   TC New Request ✕

New Request ∨

Activity Collections Env

filter activity ≡

GET hackathon-apis.v...
just now

GET ∨   https://hackathon-apis.vercel.app/api/products   Send

Query   Headers ²   Auth   Body   Tests   Pre Run

Query Parameters

☐   parameter   value

Status: 200 OK   **Size:** 14.43 KB   **Time:** 447 ms

Response   Headers ¹⁶   Cookies   Results   Docs   {} ≡

```json
1   [
2     {
3       "name": "The Poplar suede sofa",
4       "description": "A timeless design, with premium materials
          features as one of our most popular and iconic pieces.
          The dandy chair is perfect for any stylish living space
          with beech legs and lambskin leather upholstery.",
5       "image": "https://cdn.sanity.io/images/ri847jqu/production
          /9b6a4fc8c65bbb4e5793fb0e1116b510d73dc9e8-630x375.png",
6       "_id": "65453ffd-e476-4b6b-a388-7e3de1bb632a",
7       "features": [
8         "Premium material",
9         "Handmade upholster",
10        "Quality timeless classic"
11      ],
12      "dimensions": {
13        "width": "110cm",
14        "height": "110cm",
15        "depth": "50cm"
16      },
17      "category": {
18        "name": "Tableware",
19        "slug": "tableware"
20      },
21      "price": 980,
22      "tags": [
```

Response   Chart

GET ∨   https://hackathon-apis.vercel.app/api/products   Send

Query   Headers ²   Auth   Body   Tests   Pre Run

Status: 200 OK   **Size:** 14.43 KB   **Time:** 447 ms

Response   Headers ¹⁶   Cookies   Results   Docs   {} ≡