

## DAY 5 - TESTING AND BACKEND REFINEMENT - [Comforty Ecommerce]

### Step:01

### Testing Api Keys

<https://giaic-hackathon-template-08.vercel.app/api/categories>

<https://giaic-hackathon-template-08.vercel.app/api/products>

Thunder Client interface showing a GET request to `https://giaic-hackathon-template-08.vercel.app/api/categories`. The response is a JSON array of 3 category objects.

```
1 [
2   {
3     "_id": "26fd7176-3c4d-40fc-a73a-3b85a9b5e15f",
4     "title": "Ming Chair",
5     "imageUrl": "https://cdn.sanity.io/images/5x47y4y0/production/c692eaf301809a24f99f9d89e60f5ffb51b27925-424x424.png"
6   },
7   {
8     "_id": "407a8593-6203-4f61-becf-8e8b4c5461b6",
9     "title": "Wooden Chair",
10    "imageUrl": "https://cdn.sanity.io/images/5x47y4y0/production/77735c535ae0fab5698283be6e398fed22b82126-424x424.png"
11  },
12  {
13    "_id": "b5710116-09af-4d8e-a9a-dc02fe919a9",
14    "title": "Desk Chair",
15    "imageUrl": "https://cdn.sanity.io/images/5x47y4y0/production/8c286cbb3ef2bf08a4632ab7ef7044cea8dc55d3-424x424.png"
16  }
17 ]
```

Thunder Client interface showing a GET request to `https://giaic-hackathon-template-08.vercel.app/api/products`. The response is a JSON array of 3 product objects.

```
1 [
2   {
3     "_id": "2P4wvln8afK1An3Aue9j2F",
4     "title": "SleekSpin",
5     "priceWithoutDiscount": null,
6     "category": {
7       "_id": "b5710116-09af-4d8e-a9a-dc02fe919a9",
8       "title": "Desk Chair"
9     },
10    "tags": [
11      "gallery"
12    ],
13    "price": 20,
14    "badge": null,
15    "imageUrl": "https://cdn.sanity.io/images/5x47y4y0/production/81a5b76e16f930870a22f8f3e651b3a70e0f4-312x312.png",
16    "description": "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam tincidunt w
17    enim. Lorem ipsum dolor sit amet, consectetur adipiscing",
18    "inventory": 10
19  },
20  {
21    "inventory": 20,
22    "tags": [
23      "featured",
24      "instagram",
25      "gallery"
26    ],
27    "badge": null,
28    "imageUrl": "https://cdn.sanity.io/images/5x47y4y0/production/4c862915914fb385558532c3df0c4d64c1f8cca-312x312.png",
29    "price": 20,
30    "priceWithoutDiscount": null,
31    "category": {
32      "_id": "b5710116-09af-4d8e-a9a-dc02fe919a9",
33      "title": "Desk Chair"
34    },
35    "description": "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam tincidunt w
36    enim. Lorem ipsum dolor sit amet, consectetur adipiscing",
37    "id": "31f3c0xf70y6l3u0ldd04",
38    "title": "Citrus Edge"
39  }
40 ]
```

Step:02

Testing CVS Report:

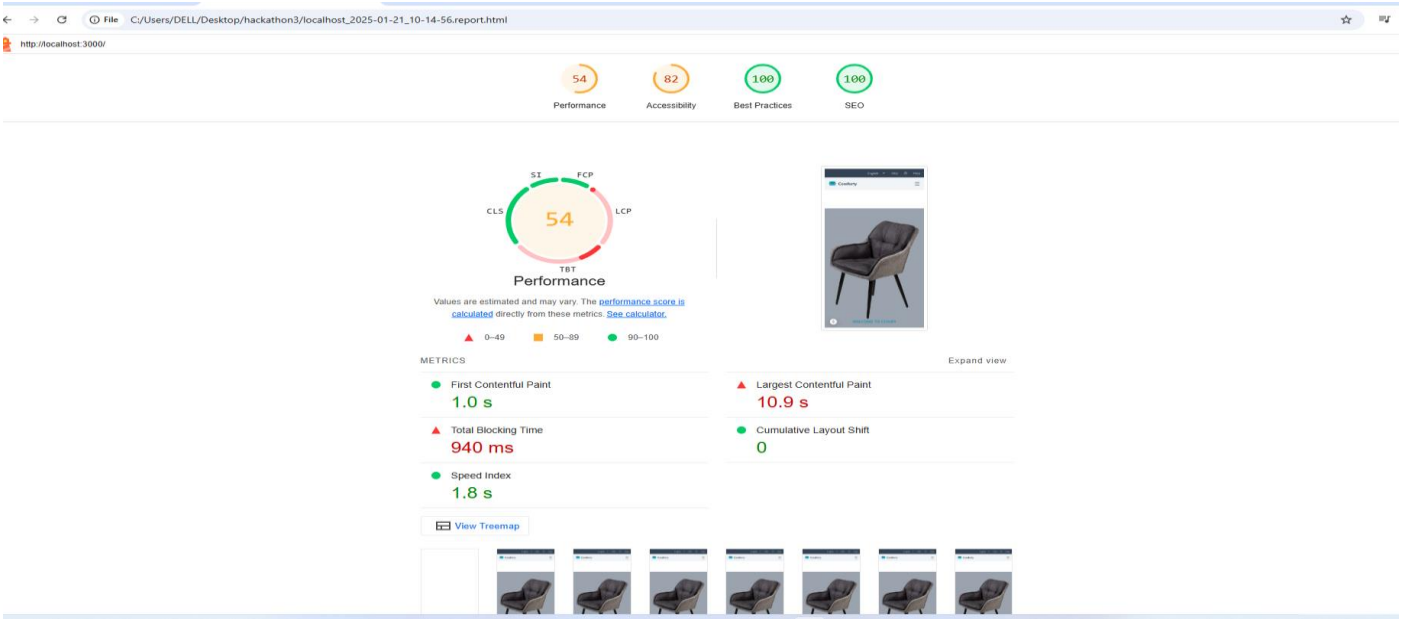
Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC01	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Medium	-	Handled gracefully
TC02	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-	Handled gracefully
TC03	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Failed	Low	-	Works as expected
TC04	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	High	-	Test successful

Step:03

Testing Lighthouse report:

file:///C:/Users/DELL/Desktop/hackathon3/localhost\_2025-01-21\_10-14-56.report.html

PERFORMANCE:



DIAGNOSTICS

▲ Largest Contentful Paint element — 10,910 ms	▼
▲ Reduce JavaScript execution time — 2.0 s	▼
▲ Minimize main-thread work — 4.8 s	▼
▲ Serve images in next-gen formats — Potential savings of 4,217 KiB	▼
▲ Reduce initial server response time — Root document took 610 ms	▼
▲ Minify JavaScript — Potential savings of 281 KiB	▼
▲ Properly size images — Potential savings of 1,555 KiB	▼
▲ Reduce unused JavaScript — Potential savings of 3,569 KiB	▼
▲ Page prevented back/forward cache restoration — 3 failure reasons	▼
■ Image elements do not have explicit width and height	▼
■ Defer offscreen images — Potential savings of 2,782 KiB	▼
■ Efficiently encode images — Potential savings of 929 KiB	▼
■ Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 KiB	▼
■ Avoid enormous network payloads — Total size was 8,788 KiB	▼
○ Avoid long main-thread tasks — 14 long tasks found	▼
○ Avoids an excessive DOM size — 388 elements	▼
○ 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.

ACCECIBILITY:



Best Practices

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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PASSED AUDITS (14)

Show

NOT APPLICABLE (2)

Show

54

82

100

100

100

## 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](#).

## ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

☐ Structured data is valid

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

## PASSED AUDITS (8)

Show

## NOT APPLICABLE (2)

Show

Captured at Jan 21, 2025, 10:14 AM

GMT+5

Emulated Moto G Power with Lighthouse

12.3.0

Single page session

Initial page load

Slow 4G throttling

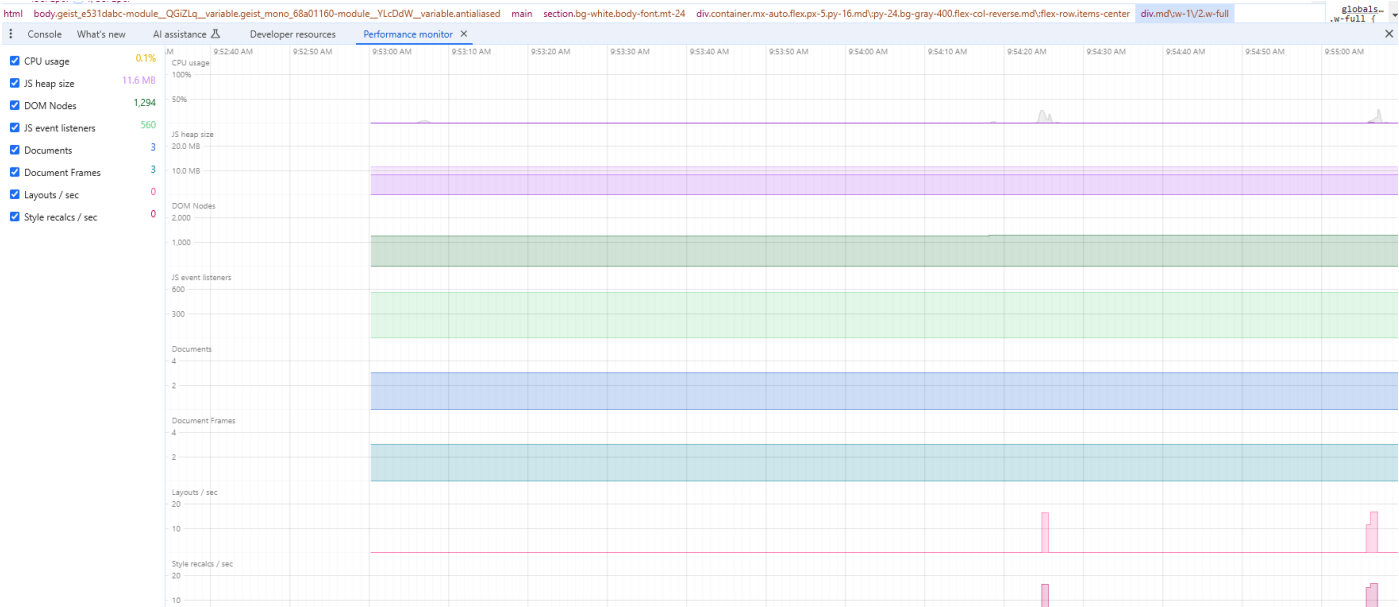
Using Chromium 132.0.0.0 with cli

Generated by **Lighthouse 12.3.0** | [File an issue](#)

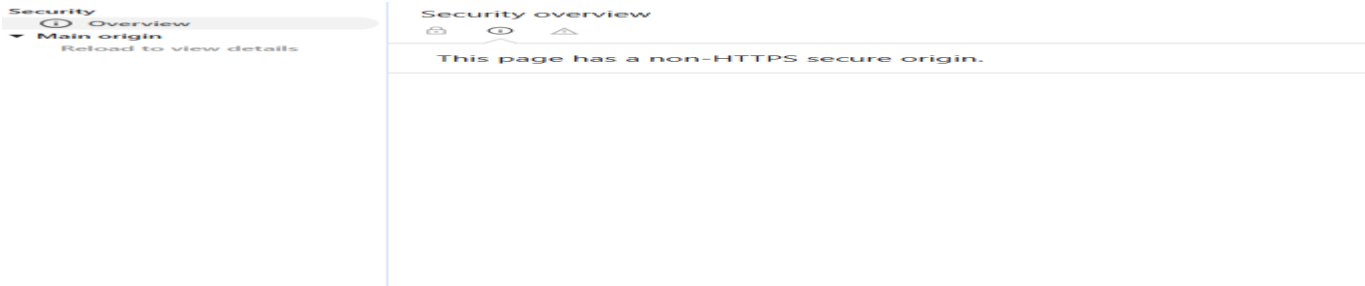
## Step:04

## DEVELOPER RESOURCES:

PERFORMANCE MONITOR :



SECURITY:



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