

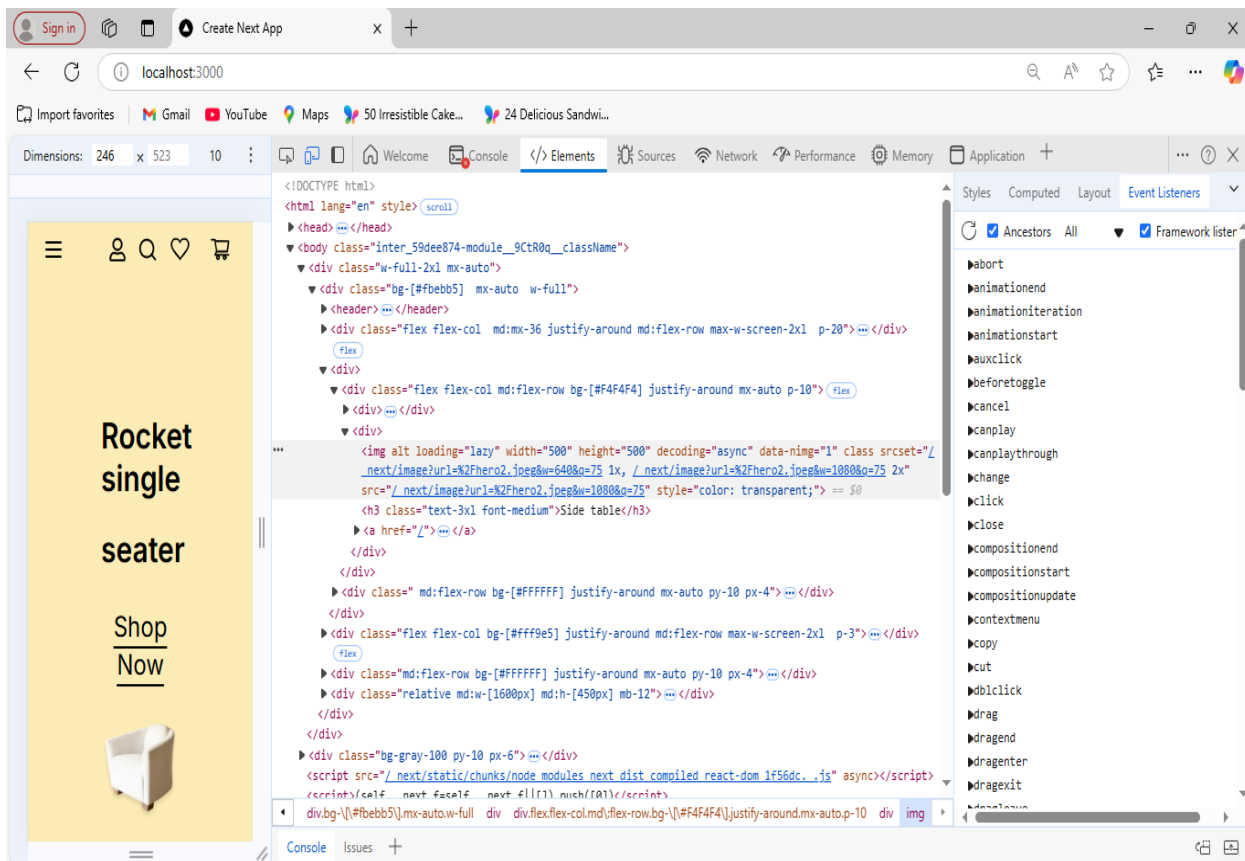
## **TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT**

### **STEP 1: Function Testing**

The website's product cart, pagination components product listing, search, filters checkout related functionalities are operating seamlessly. Users can filter and search products according to the price and category type The entire process is intuitive, secure, and functions flawlessly without errors.

### **Step 2: Error Handling**

### **Responsiveness Check**



### Step 3: Thunder Client For API Checking

The screenshot displays the Thunder Client application interface. The top menu bar includes File, Edit, Selection, View, Go, Run, and a search icon. The main workspace is divided into several panels:

- Left Panel:** Contains a sidebar with a 'New Request' button, a search bar, and a list of recent requests. The first request is 'template-0-beta...' with a status of 'just now'. The second request is 'thunderclient.co...' with a status of '1 month ago'.
- Request Panel:** Shows a GET request to 'https://template-0-beta.vercelapp/api/product'. The 'Send' button is visible.
- Query Parameters:** A table with two columns: 'parameter' and 'value'. It is currently empty.
- Response Panel:** Displays the status '200 OK', size '8.07 KB', and time '434 ms'. The response body is a JSON array of two objects, each representing a chair product.
- Bottom Panel:** Includes tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', 'PORTS', and 'COMMENTS'. The 'TERMINAL' tab is active, showing the command prompt 'E:\hackathon-main - Copy>'.

The response body is as follows:

```
1 [
2   {
3     "id": "1",
4     "name": "Chair Wibe",
5     "imagePath": "https://plus.unsplash.com/premium_photo-1668073439372-2ceafa1222b7?q=80&w=1887&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxwaG90by1wYmV1fHx8fGVufDB8fHx8fA%3D%3D",
6     "price": "1200",
7     "description": "A sleek outdoor chair with natural wooden elements and a modern look.",
8     "discountPercentage": 10,
9     "isFeaturedProduct": true,
10    "stockLevel": 25,
11    "category": "Chair"
12  },
13  {
14    "id": "2",
15    "name": "Armchair Chair Set",
16    "imagePath": "https://plus.unsplash.com/premium_photo-1681022527718-81786d7873bd?q=80&w=1915&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxwaG90by1wYmV1fHx8fGVufDB8fHx8fA%3D%3D"
```

hackathon-main - Copy

THUNDER CLIENT ...

New Request X importSanityData.mjs

New Request

Activity Collections Env

filter activity

GET template-0-beta... just now

GET thunderclient.co... 1 month ago

GET https://template-0-beta.vercel.app/api/product Send

Status: 200 OK Size: 8.07 KB Time: 434 ms

Query Headers Auth Body Tests Pre Run

Query Parameters

parameter	value
-----------	-------

Response Headers Cookies Results Docs {}

```
184 "discountPercentage": 25,
185 "isFeaturedProduct": false,
186 "stockLevel": 100,
187 "category": "Bed"
188 },
189 {
190   "id": "18",
191   "name": "White Bed",
192   "imagePath": "https://plus.unsplash.com/premium_photo-1661595077028-9ff236368cb5?q=80&w=2069&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=#B3wxdHjA3fDB8MhxwaG90by1wYVdlfHx8fGVufDB8fHx8fA%3D%3D",
193   "price": "120",
194   "description": "A foldable wooden bed with a padded seat for extra comfort.",
195   "discountPercentage": 12,
196   "isFeaturedProduct": false,
197   "stockLevel": 30,
198   "category": "Bed"
199 },
200 {
201   "id": "19",
```

Problems Output Debug Console TERMINAL Ports Comments

E:\hackathon-main - Copy

Go Live

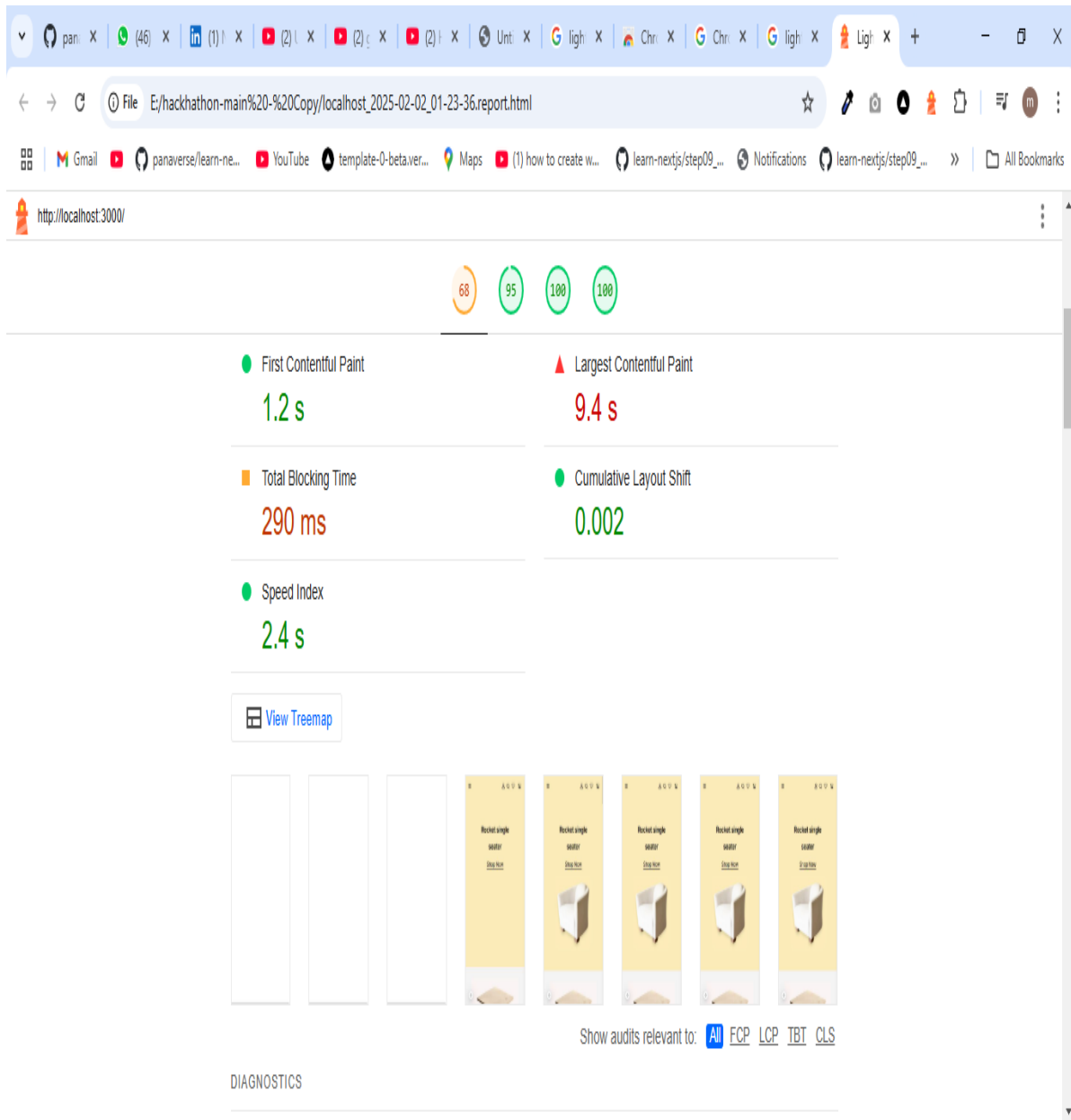
ID	Steps	Expected Result	Actual Result	Status	Severity Level	Assigned	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	high	No issues found
TC002	Test API error handling	Disconnect API > Refresh page	Show 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

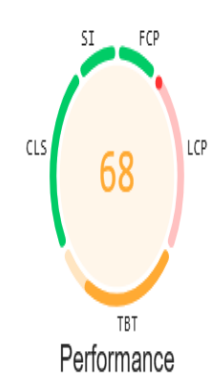
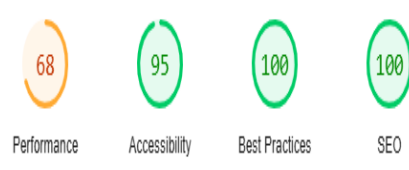
## Step 4: Performance Optimization Checking

# Follow Following commands:

(1) `npm install -g lighthouse`

(2) `lighthouse http://localhost:3000 -view`





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 1.2 s
- ▲ Largest Contentful Paint 9.4 s

Browser tabs: pan..., (46) x, lin (1) x, (2) x, (2) x, (2) x, Unt..., G ligh x, Chr x, G Chr x, G ligh x, Ligh x

Address bar: File E:/hackathon-main%20-%20Copy/localhost\_2025-02-02\_01-23-36.report.html

Browser address: http://localhost:3000/

Performance scores: 68, 95, 100, 100

### DIAGNOSTICS

▲ Largest Contentful Paint element — 9,450 ms	▼
▲ Reduce unused JavaScript — Potential savings of 961 KiB	▼
▲ Minimize main-thread work — 2.4 s	▼
▲ Minify JavaScript — Potential savings of 317 KiB	▼
▲ Largest Contentful Paint image was lazily loaded	▼
▲ Page prevented back/forward cache restoration — 3 failure reasons	▼
■ Eliminate render-blocking resources — Potential savings of 0 ms	▼
■ Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 KiB	▼
○ JavaScript execution time — 1.0 s	▼
○ Avoid long main-thread tasks — 9 long tasks found	▼
○ Avoid large layout shifts — 1 layout shift found	▼
○ Initial server response time was slow — Fast document took 420 ms	▼

pan: x (46) x (1) i x (2) x (2) x (2) i x Unt: x G ligh: x Chr: x G Chr: x G ligh: x Ligh: x + - X

File E:/hackathon-main%20-%20Copy/localhost\_2025-02-02\_01-23-36.report.html ☆ ✎ 📷 🗑️ 📄 📖 m ⋮

Gmail panaverse/learn-ne... YouTube template-0-beta.ver... Maps (1) how to create w... learn-nextjs/step09\_... Notifications learn-nextjs/step09\_... » All Bookmarks

http://localhost:3000/ ⋮ ▲

68 95 100 100

PASSED AUDITS (23) Show

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.

CONTRAST

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



pani

(46)

(1)

(2)

(2)

(2)

Unt

ligh

Chr

Chr

ligh

Ligh

FileE:/hackathon-main%20-%20Copy/localhost\_2025-02-01-23-36.report.html

Gmailpanaverse/learn-ne...YouTubetemplate-0-beta.ver...MapsYouTube(1) how to create w...learn-nextjs/step09...Notificationslearn-nextjs/step09...All Bookmarks

http://localhost:3000/

6895100100

100

Best Practices

TRUST AND SAFETY

Ensure CSP is effective against XSS attacks

Use a strong HSTS policy

Ensure proper origin isolation with COOP

pan: X (46) X (1) X (2) X (2) X Unt: X G ligh: X Chr: X Chr: X ligh: X Ligh: X

File E:\hackathon-main\%20Copy\localhost\_2025-02-01-23-36.report.html

Gmail panaverse/learn-ne... YouTube template-0-beta.ver... Maps (1) how to create w... learn-nextjs/step09... Notifications learn-nextjs/step09... All Bookmarks

http://localhost:3000/

68 95 100 100

▲ Missing source maps for large first-party JavaScript

PASSED AUDITS (14) Show


NOT APPLICABLE (2) Show

100

SEO


These checks ensure that your page is following basic search engine optimization advice. There are many additional factors in the overall score.

## Developer Resources



Side table

View More



Side table

View More

Ton Picks For

Elements Console Sources Network Performance Memory Application Security Lighthouse Recorder

<html lang="en"> </html>

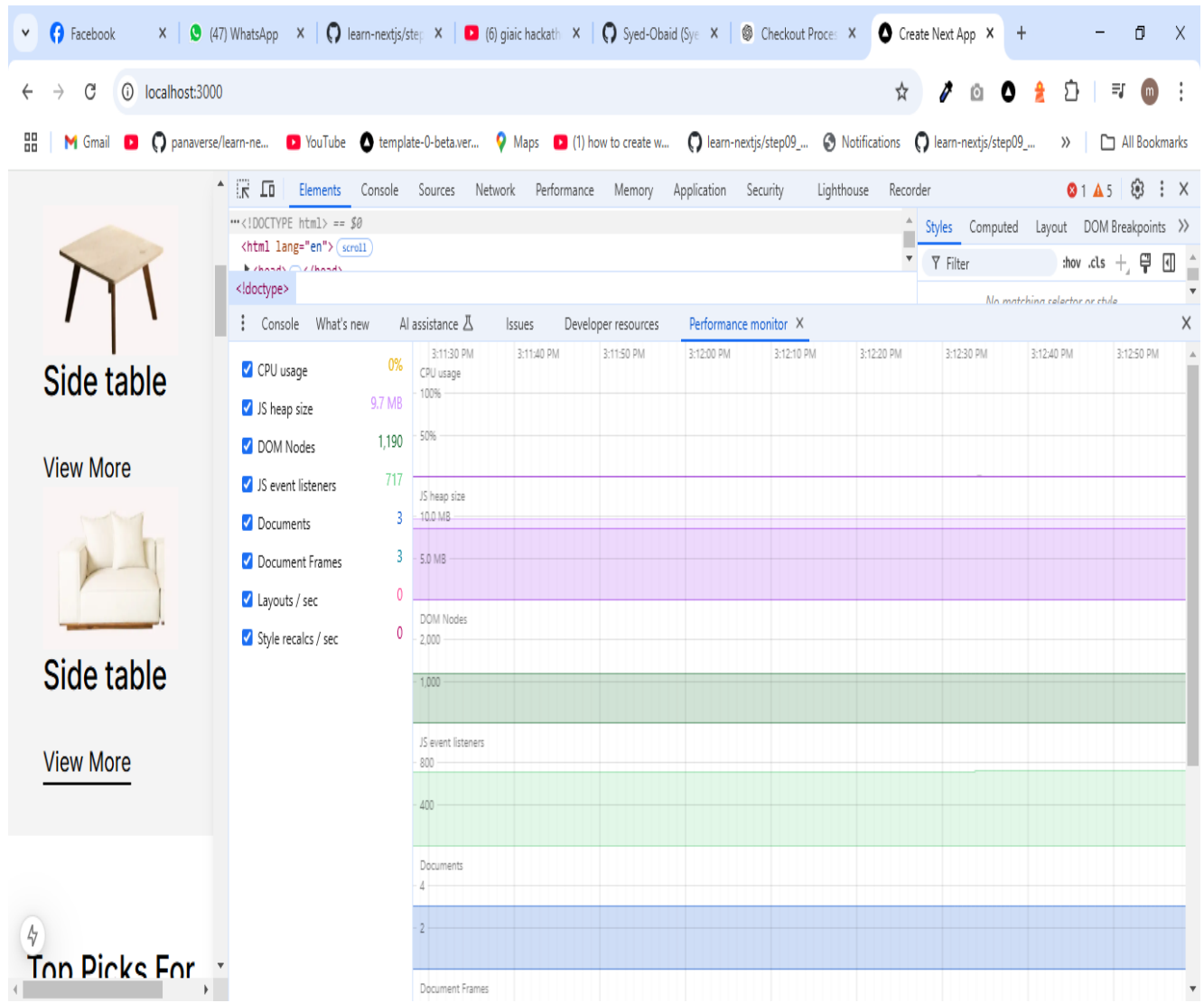
<doctype>

Developer resources

Filter by URL and error

Status	URL	Initiator	Total Bytes	Error
success	http://localhost:3000/.../node_modules_%40swc_helpers_cjs_00636a_.js.map	http://localhost:3000/...	5 362	
success	http://localhost:3000/_next/stati.../node_modules_next_dist_4bb10e_.js.map	http://localhost:3000/...	129 166	
success	http://localhost:3000/_next/static/chunks/_d95469_.js.map	http://localhost:3000/...	105 793	
success	http://localhost:3000/_next/static/chunks/_f6ead7_.js.map	http://localhost:3000/...	66 761	
success	http://localhost:3000/_next/static/chunks/_a91c21_.js.map	http://localhost:3000/...	149 522	
success	http://local.../node_modules_next_dist_compiled_react-dom_1f56dc_.js.map	http://localhost:3000/...	1 375 277	
success	http://localhost:3000/_.../node_modules_next_dist_compiled_107ce8_.js.map	http://localhost:3000/...	389 968	
success	http://localhost:3000/_next/static/chu.../node_modules_next_91038c_.js.map	http://localhost:3000/...	194 642	
success	http://localhost:3.../node_modules_react-icons_hi_index_mjs_d23786_.js.map	http://localhost:3000/...	344 184	
success	http://localhost:30.../node_modules_react-icons_fi_index_mjs_9cbf4b_.js.map	http://localhost:3000/...	276 066	
success	http://localhost:3000/_nex.../node_modules_next_dist_client_523921_.js.map	http://localhost:3000/...	1 050 236	
success	http://localhost:3000/_next/_.../node_modules_react-icons_lib_74ccc9_.js.map	http://localhost:3000/...	8 470	
success	http://localhost:3000/_next/static/chunks/src_app_de9710_.js.map	http://localhost:3000/...	12 714	
success	http://localhost:30.../node_modules_react-icons_ai_index_mjs_b8cf3_.js.map	http://localhost:3000/...	964 660	
success	http://localhost:3.../node_modules_react-icons_io_index_mjs_d35c4_.js.map	http://localhost:3000/...	657 503	
success	http://localhost:3.../node_modules_react-icons_fa_index_mjs_d2e2d7_.js.map	http://localhost:3000/...	1 735 480	
success	http://localh.../%58turboPACK%5D_browser_dev_hmr-client_d6d8d4_.js.map	http://localhost:3000/...	31 112	
success	http://localhost:3.../%58root%20of%20the%20server%5D_9a168d_.css.map	http://localhost:3000/...	39 958	

## Performance Monitor



## Issues

Facebook x (47) WhatsApp x learn-nextjs/ste x (6) giaic hackat x Syed-Obaid (Sy x Checkout Proce x Create Next App x + -

localhost:3000

Gmail panaverse/learn-ne... YouTube template-0-beta.ver... Maps (1) how to create w... learn-nextjs/step09\_... Notifications learn-nextjs/step09\_... All Bookmarks

Elements Console Sources Network Performance Memory Application Security Lighthouse Recorder

Styles Computed Layout DOM Breakpoints

Filter show .cls + No matching selector or style

Console What's new AI assistance Issues X Developer resources Performance monitor

Group by kind Include third-party cookie issues 0 0 0

No issues detected so far

Side table

View More

Side table

View More

Top Picks For

## Security Overview

