

85

100

82



Performance

Accessibility

Best Practices SEO

**PWA** 

## There were issues affecting this run of Lighthouse:

- There may be stored data affecting loading performance in this location: IndexedDB. Audit this page in an incognito window to prevent those resources from affecting your scores.
- The page loaded too slowly to finish within the time limit. Results may be incomplete.



# **Performance**

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

▲ 0–49

50-89

90-100



METRICS Expand view

▲ First Contentful Paint

17.5 s

▲ Speed Index

22.6 s

▲ Largest Contentful Paint

87.0 s

▲ Time to Interactive

21.1 s

▲ Total Blocking Time

920 ms

▲ Cumulative Layout Shift

0.621

View Original Trace

View Treemap





















### **OPPORTUNITIES**

Opportunity Estimated Savings

# ▲ Enable text compression

■ 11.9 s ^

Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. <u>Learn more</u>. FCP LCP

URL	Transfer Size	Potential Savings
deps/web3.js?v=eaf707da (localhost)	2,115.6 KiB	1,635.9 KiB
deps/firebase_firestore.js?v=eaf707da (localhost)	425.4 KiB	320.2 KiB
deps/chunk-QO6ZHO7P.js?v=eaf707da (localhost)	281.1 KiB	214.6 KiB
deps/vue-router.js?v=eaf707da (localhost)	83.4 KiB	62.3 KiB
@vite/client (localhost)	76.4 KiB	51.7 KiB
deps/chunk-6HGNATVO.js?v=eaf707da (localhost)	50.3 KiB	38.5 KiB
deps/pinia.js?v=eaf707da (localhost)	43.8 KiB	33.0 KiB
src/App.vue?t=167 (localhost)	23.3 KiB	17.3 KiB
stores/user.store.ts (localhost)	8.3 KiB	4.9 KiB
components/HomeContent.vue (localhost)	6.9 KiB	4.4 KiB
icons/IconEcosystem.vue (localhost)	6.3 KiB	4.0 KiB
deps/vue.js?v=eaf707da (localhost)	4.7 KiB	3.7 KiB
deps/chunk-FVZHS5AO.js?v=eaf707da (localhost)	4.5 KiB	3.1 KiB
components/ContentRow.vue (localhost)	5.7 KiB	2.9 KiB
firestore/db.ts (localhost)	4.6 KiB	2.6 KiB
firestore/firestore.ts (localhost)	4.6 KiB	2.5 KiB
icons/IconDocumentation.vue (localhost)	4.7 KiB	2.5 KiB
assets/main.css (localhost)	3.5 KiB	2.3 KiB

URL	Transfer Size	Potential Savings
icons/IconCommunity.vue (localhost)	4.2 KiB	2.1 KiB
client/env.mjs (localhost)	3.2 KiB	1.7 KiB
icons/IconTooling.vue (localhost)	3.9 KiB	1.7 KiB
components/HelloWorld.vue (localhost)	3.3 KiB	1.6 KiB
src/App.vue?t= (localhost)	2.2 KiB	1.4 KiB

# ▲ Reduce unused JavaScript

9.25 s ^

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. <u>Learn more</u>. <u>LCP</u>

# ✓ Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
deps/web3.js?v=eaf707da (localhost)	2,115.9 KiB	1,291.0 KiB
web3/dist/src/index.ts	42.2 KiB	35.7 KiB
web3/dist/src.ts/index.ts	46.8 KiB	32.6 KiB
web3/dist/webpack:/node_modules/oboe/dist/oboe-browser.js	33.4 KiB	25.9 KiB
web3/dist/webpack:/node_modules/bn.js/lib/bn.js	68.5 KiB	22.2 KiB
web3/dist/webpack:/packages/web3-eth-contract/lib/index.js	20.6 KiB	19.8 KiB
deps/firebase_firestore.js?v=eaf707da (localhost)	425.7 KiB	251.8 KiB
firestore/dist/index.esm2017.js	340.7 KiB	224.2 KiB
webchannel-wrapper/node_modules/google-closure- library/closure/goog/labs/net/webchannel/webchannelbase.js	9.6 KiB	1.9 KiB
webchannel-wrapper/node_modules/google-closure-library/closure/goog/events/browserevent.js	1.6 KiB	1.6 KiB
webchannel-wrapper/node_modules/google-closure-library/closure/goog/events/events.js	2.4 KiB	1.5 KiB
webchannel-wrapper/node_modules/google-closure- library/closure/goog/labs/net/webchannel/webchanneldebug.js	1.6 KiB	1.3 KiB
deps/chunk-QO6ZHO7P.js?v=eaf707da (localhost)	281.3 KiB	159.8 KiB
@vue/runtime-core/dist/runtime-core.esm-bundler.js	195.8 KiB	114.4 KiB
@vue/runtime-dom/dist/runtime-dom.esm-bundler.js	41.8 KiB	31.3 KiB

URL Transfer Poter Size Savi
@vue/shared/dist/shared.esm-bundler.js 12.6 KiB 3.4
dist/model-viewer.min.js (unpkg.com) 222.9 KiB 82.3
··· 211.1 KiB 82.0
deps/vue-router.js?v=eaf707da (localhost) 83.7 KiB 42.2
82.6 KiB 42.2
deps/pinia.js?v=eaf707da (localhost) 44.1 KiB 32.5
dist/pinia.mjs 42.8 KiB 32.2
deps/chunk-6HGNATVO.js?v=eaf707da (localhost) 50.5 KiB 21.0
@firebase/util/src/crypt.ts 5.3 KiB 5.0
@firebase/app/src/heartbeatService.ts 4.8 KiB 2.9
@firebase/logger/src/logger.ts 3.8 KiB 2.8
@firebase/component/src/provider.ts 6.1 KiB 2.0
@firebase/util/src/emulator.ts 0.8 KiB 0.8

# ▲ Serve images in next-gen formats

8.81 s ^

Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. <u>Learn more</u>.

	URL	Resource Size	Potential Savings
div.cor ainer	0/0_0.jpg (localhost)	2,257.5 KiB	1,771.2 KiB

▲ Efficiently encode images

7.49 s ^

	URL	Resource Size	Potential Savings
div.cont ainer	0/0_0.jpg (localhost)	2,257.5 KiB	1,528.0 KiB

# ▲ Minify JavaScript

4.85 s ^

Minifying JavaScript files can reduce payload sizes and script parse time. <u>Learn more</u>. FCP <u>LCP</u>

URL	Transfer Size	Potential Savings
deps/web3.js?v=eaf707da (localhost)	2,115.9 KiB	621.0 KiB
deps/firebase_firestore.js?v=eaf707da (localhost)	425.7 KiB	110.2 KiB
deps/chunk-Q06ZH07P.js?v=eaf707da (localhost)	281.3 KiB	67.2 KiB
@vite/client (localhost)	76.6 KiB	63.6 KiB
deps/vue-router.js?v=eaf707da (localhost)	83.7 KiB	18.8 KiB
src/App.vue?t=167 (localhost)	23.6 KiB	14.6 KiB
deps/chunk-6HGNATVO.js?v=eaf707da (localhost)	50.5 KiB	13.2 KiB
deps/pinia.js?v=eaf707da (localhost)	44.1 KiB	11.7 KiB
stores/user.store.ts (localhost)	8.6 KiB	6.7 KiB
components/HomeContent.vue (localhost)	7.2 KiB	4.4 KiB
firestore/db.ts (localhost)	4.9 KiB	3.8 KiB
firestore/firestore.ts (localhost)	4.9 KiB	3.8 KiB
components/ContentRow.vue (localhost)	5.9 KiB	3.7 KiB
icons/lconEcosystem.vue (localhost)	6.6 KiB	3.5 KiB
client/env.mjs (localhost)	3.5 KiB	2.9 KiB

URL	Transfer Size	Potential Savings
icons/IconDocumentation.vue (localhost)	5.0 KiB	2.6 KiB
icons/IconTooling.vue (localhost)	4.2 KiB	2.3 KiB
icons/IconCommunity.vue (localhost)	4.5 KiB	2.3 KiB

Avoid serving legacy JavaScript to modern browsers

■ 0.44 s ^

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module/nomodule feature detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy browsers. Learn More TBT

URL		Potential Savings
deps/web3.js?v=eaf707da (localhost)		19.6 KiB
web3.js:1955	@babel/plugin-transform-classes	
web3.js:18750	Array.isArray	

Preconnect to required origins

0.3 s ^

Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connections to important third-party origins. <u>Learn more</u>. FCP LCP

URL	Potential Savings
https://cdnjs.cloudflare.com	300 ms
https://fonts.googleapis.com	300 ms

These suggestions can help your page load faster. They don't <u>directly affect</u> the Performance score.

### **DIAGNOSTICS**

▲ Avoid enormous network payloads — Total size was 15,628 KiB

Large network payloads cost users real money and are highly correlated with long load times. Learn more. LCP

URL	Transfer Size
assets/mi777.glb (localhost)	9,857.6 KiB
0/0_0.jpg (localhost)	2,257.7 KiB
deps/web3.js?v=eaf707da (localhost)	2,115.9 KiB
deps/firebase_firestore.js?v=eaf707da (localhost)	425.7 KiB
deps/chunk-QO6ZHO7P.js?v=eaf707da (localhost)	281.3 KiB
dist/model-viewer.min.js (unpkg.com)	222.9 KiB
deps/vue-router.js?v=eaf707da (localhost)	83.7 KiB
@vite/client (localhost)	76.6 KiB
deps/chunk-6HGNATVO.js?v=eaf707da (localhost)	50.5 KiB
deps/pinia.js?v=eaf707da (localhost)	44.1 KiB

## ▲ Minimize main-thread work — 20.2 s

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. Learn more (TBT)

Category	Time Spent
Script Evaluation	11,464 ms
Other	4,413 ms
Rendering	2,924 ms
Style & Layout	1,029 ms
Garbage Collection	180 ms
Script Parsing & Compilation	126 ms
Parse HTML & CSS	72 ms

Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and try to load third-party code after your page has primarily finished loading. <u>Learn more</u>. (TBT)

Third-Party	Transfer Size	Main-Thread Blocking Time
<u>Unpkg</u>	223 KiB	2,573 ms
dist/model-viewer.min.js (unpkg.com)	223 KiB	2,573 ms
Cloudflare CDN	37 KiB	0 ms
7.3.0/rxjs.umd.min.js (cdnjs.cloudflare.com)	37 KiB	0 ms
Google Fonts	30 KiB	0 ms
v30/KFOmCnqEuwoff2 (fonts.gstatic.com)	15 KiB	0 ms
v30/KFOICnqEuwoff2 (fonts.gstatic.com)	12 KiB	0 ms
GitHub	22 KiB	0 ms
<u>Firebase</u>	2 KiB	0 ms

# ▲ Does not use passive listeners to improve scrolling performance

Consider marking your touch and wheel event listeners as `passive` to improve your page's scroll performance. Learn more.

Source

model-viewer.min.js:1066

### ▲ Reduce JavaScript execution time — 11.5 s

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. <u>Learn more</u>. TBT

✓ Show 3rd-party resources (1)

URL	Total CPU Time	Script Evaluation	Script Parse
dist/model-viewer.min.js (unpkg.com)	16,623 ms	10,480 ms	4 ms
Unattributable	1,571 ms	347 ms	0 ms
/milady-moto/ (localhost)	1,516 ms	337 ms	91 ms
deps/firebase_firestore.js?v=eaf707da (localhost)	78 ms	73 ms	3 ms

URL	Total CPU Time	Script Evaluation	Script Parse
deps/web3.js?v=eaf707da (localhost)	63 ms	23 ms	8 ms
<pre>chrome- extension://ienfalfjdbdpebioblfackkekamfmbnh/app/ng_validat e_bundle.js</pre>	59 ms	56 ms	1 ms
chrome- extension://nkbihfbeogaeaoehlefnkodbefgpgknn/inpage.js	55 ms	50 ms	0 ms
<pre>chrome- extension://nngceckbapebfimnlniiiahkandclblb/content/autofi ller.js</pre>	53 ms	2 ms	0 ms

### O Avoid chaining critical requests — 20 chains found

The Critical Request Chains below show you what resources are loaded with a high priority. Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. Learn more. FCP LCP

### Maximum critical path latency: 540 ms

```
Initial Navigation
        /milady-moto/ (localhost)
             ...@vite/client (localhost)
                  ...client/env.mjs (localhost) - 10 ms, 3.46 KiB
             ...dist/model-viewer.min.js (unpkg.com)
                  ...dist/model-viewer.min.js (unpkg.com) - 50 ms, 222.88 KiB
             ...src/main.ts?t=167... (localhost)
                  ...deps/vue.js?v=eaf707da (localhost)
                       ...deps/chunk-QO6ZHO7P.js?v=eaf707da (localhost) - 10 ms, 281.33 KiB
                       ...deps/chunk-RSJERJUL.js?v=eaf707da (localhost) - 10 ms, 0.55 KiB
                  ...deps/pinia.js?v=eaf707da (localhost)
                       ...deps/chunk-FVZHS5AO.js?v=eaf707da (localhost) - 10 ms, 4.76 KiB
                  ...src/App.vue?t=167... (localhost)
                       ...deps/vue-router.js?v=eaf707da (localhost) - 10 ms, 83.65 KiB
                      ...components/HelloWorld.vue (localhost)
                           ...components/HelloWorld.vue?vue&type=... (localhost) - 10 ms, 1.23 KiB
                      ...stores/user.store.ts (localhost)
                           ...deps/web3.js?v=eaf707da (localhost) - 30 ms, 2,115.91 KiB
                           ...firestore/db.ts (localhost)
                                ...firestore/firestore.ts (localhost)
                                    ...deps/firebase_app.js?v=eaf707da (localhost)
```

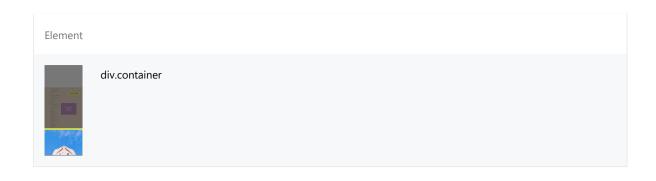


Keep request counts low and transfer sizes small — 82 requests • 15,628 KiB

To set budgets for the quantity and size of page resources, add a budget.json file. Learn more.

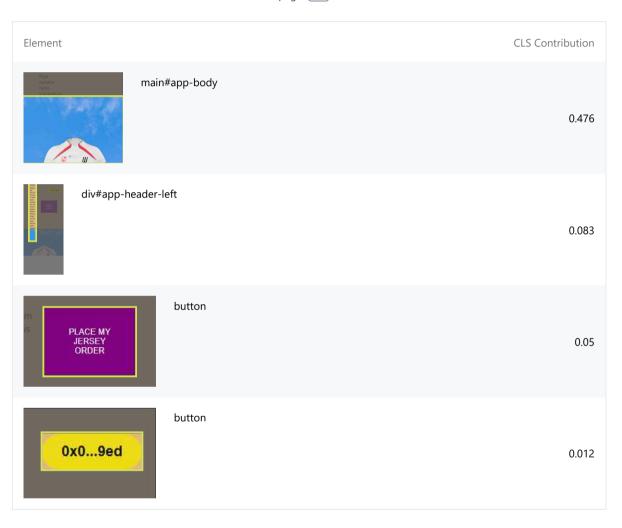
Resource Type	Requests	Transfer Size
Total	82	15,627.6 KiB
Other	12	9,859.9 KiB
Script	61	3,472.5 KiB
Image	2	2,262.2 KiB
Font	2	27.5 KiB
Stylesheet	3	3.0 KiB
Document	2	2.5 KiB
Media	0	0.0 KiB
Third-party	45	314.3 KiB

○ Largest Contentful Paint element — 1 element found



O Avoid large layout shifts — 4 elements found

These DOM elements contribute most to the CLS of the page. CLS



O Avoid long main-thread tasks — 14 long tasks found

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Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. Learn more TBT

✓ Show 3rd-party resources (7)

URL	Start Time	Duration
dist/model-viewer.min.js (unpkg.com)	5,798 ms	726 ms

URL	Start Time	Duration
dist/model-viewer.min.js (unpkg.com)	4,664 ms	535 ms
dist/model-viewer.min.js (unpkg.com)	5,363 ms	435 ms
/milady-moto/ (localhost)	1,211 ms	349 ms
dist/model-viewer.min.js (unpkg.com)	4,366 ms	279 ms
Unattributable	1,611 ms	120 ms
Unattributable	5,250 ms	113 ms
Unattributable	1,731 ms	94 ms
Unattributable	1,921 ms	90 ms
dist/model-viewer.min.js (unpkg.com)	6,624 ms	54 ms
chrome-extension://nngceckbapebfimnlniiiahkandclblb/content/autofiller.js	1,825 ms	52 ms
dist/model-viewer.min.js (unpkg.com)	6,572 ms	52 ms
dist/model-viewer.min.js (unpkg.com)	5,199 ms	51 ms
Unattributable	1,561 ms	50 ms

More information about the performance of your application. These numbers don't <u>directly affect</u> the Performance score.

PASSED AUDITS (23)

Eliminate render-blocking resources

Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical JS/styles. Learn more. FCP LCP

Properly size images

Serve images that are appropriately-sized to save cellular data and improve load time. Learn more.

Defer offscreen images

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to

interactive. Learn more.

<ul><li>Minify CSS</li></ul>	^
Minifying CSS files can reduce network payload sizes. <u>Learn more</u> . <u>FCP</u> <u>LCP</u>	
Reduce unused CSS	^
Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease network activity. Learn more. FCP LCP	ease bytes consumed by
Initial server response time was short — Root document took 10 ms	^
Keep the server response time for the main document short because all other requests depend or	n it. <u>Learn more</u> . FCP (LCP)
URL	Time Spent
/milady-moto/ (localhost)	10 ms
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. <u>Learn more</u> . FCP LCP	
O Preload key requests	^
Consider using ` <link rel="preload"/> ` to prioritize fetching resources that are currently requested lamore. FCP LCP	ater in page load. <u>Learn</u>
Use HTTP/2	^
HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. <u>Learn mo</u>	<u>re</u> .
Use video formats for animated content	^
Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for PNG/WebP for static images instead of GIF to save network bytes. Learn more LCP	or animations and
Remove duplicate modules in JavaScript bundles	^
Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed	d by network activity. TBT
Preload Largest Contentful Paint image	^
Preload the image used by the LCP element in order to improve your LCP time. <u>Learn more</u> . <u>LCP</u>	

	URL	Potential Savings
div.con ainer	t0/0_0.jpg (localhost)	0 ms

# • Uses efficient cache policy on static assets — 27 resources found

A long cache lifetime can speed up repeat visits to your page. <u>Learn more</u>.

URL	Cache TTL	Transfer Size
/hamhelper/hamhelper1.0.0.js (hamilsauce.github.io)	10 m	2 KiB
simple-pixel-editor/PixelEditor.js (hamilsauce.github.io)	10 m	1 KiB
modules/text.js (hamilsauce.github.io)	10 m	1 KiB
simple-pixel-editor/app.js (hamilsauce.github.io)	10 m	1 KiB
modules/DOM.js (hamilsauce.github.io)	10 m	1 KiB
modules/utils.js (hamilsauce.github.io)	10 m	1 KiB
/hamhelper/event-emitter.js (hamilsauce.github.io)	10 m	1 KiB
modules/event.js (hamilsauce.github.io)	10 m	1 KiB
modules/array.js (hamilsauce.github.io)	10 m	1 KiB
modules/help.js (hamilsauce.github.io)	10 m	1 KiB
simple-pixel-editor/Pixel.js (hamilsauce.github.io)	10 m	1 KiB
simple-pixel-editor/simple-pixel-editor.css (hamilsauce.github.io)	10 m	1 KiB
modules/drag-stream.js (hamilsauce.github.io)	10 m	1 KiB
modules/csvToJson.js (hamilsauce.github.io)	10 m	1 KiB
modules/timer.js (hamilsauce.github.io)	10 m	1 KiB
modules/index.js (hamilsauce.github.io)	10 m	1 KiB

URL	Cache TTL	Transfer Size
modules/shortcuts.js (hamilsauce.github.io)	10 m	1 KiB
modules/date.js (hamilsauce.github.io)	10 m	0 KiB
modules/templater.js (hamilsauce.github.io)	10 m	0 KiB
modules/import-umd.js (hamilsauce.github.io)	10 m	0 KiB
modules/TwoWayMap.js (hamilsauce.github.io)	10 m	0 KiB
modules/log.js (hamilsauce.github.io)	10 m	0 KiB
modules/pipeline.js (hamilsauce.github.io)	10 m	0 KiB
modules/object.js (hamilsauce.github.io)	10 m	0 KiB
modules/rx.js (hamilsauce.github.io)	10 m	0 KiB
modules/json.js (hamilsauce.github.io)	10 m	0 KiB
simple-pixel-editor/Point.js (hamilsauce.github.io)	10 m	0 KiB

## • Avoids an excessive DOM size — 89 elements

A large DOM will increase memory usage, cause longer <u>style calculations</u>, and produce costly <u>layout reflows</u>. <u>Learn more</u>.

Statistic	Element	Value
Total DOM Elements		89
Maximum DOM Depth	use	16
Maximum Child Elements	div.container	8

# O User Timing marks and measures

^

All text remains visible during webfont loads Warnings: Lighthouse was unable to automatically check the `font-display` values for the origin https://fonts.gstatic.com. Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. Learn more. [FCP] [LCP] O Lazy load third-party resources with facades Some third-party embeds can be lazy loaded. Consider replacing them with a facade until they are required. Learn more. (TBT) Largest Contentful Paint image was not lazily loaded Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful paint. Learn more. Element div.container Avoids document.write() For users on slow connections, external scripts dynamically injected via `document.write()` can delay page load by tens of seconds. Learn more. Avoid non-composited animations Animations which are not composited can be janky and increase CLS. <u>Learn more</u> CLS O Image elements have explicit width and height Set an explicit width and height on image elements to reduce layout shifts and improve CLS. Learn more (CLS) Has a <meta name="viewport"> tag with width or initial-scale A `<meta name="viewport">` not only optimizes your app for mobile screen sizes, but also prevents a 300 millisecond delay to user input. Learn more. TBT Avoids unload event listeners

The `unload` event does not fire reliably and listening for it can prevent browser optimizations like the Back-Forward Cache. Use `pagehide` or `visibilitychange` events instead. <u>Learn more</u>



# Accessibility

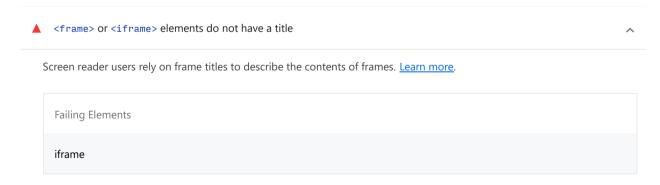
These checks highlight opportunities to improve the accessibility of your web app. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

#### ARIA

▲ [aria-*] attributes do not match their roles	^
Each ARIA `role` supports a specific subset of `aria-*` attributes. Mismatching these invalidates the `aria-*` attributes. <a href="Leaenger: 1.5">Leaenger: 1.5</a> <a href="Leaenger: 1.5">Leaenger:</a>	<u>rn</u>
Failing Elements	
a#default-ar-button.fab	

These are opportunities to improve the usage of ARIA in your application which may enhance the experience for users of assistive technology, like a screen reader.

### NAMES AND LABELS



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.

### NAVIGATION

Some elements have a [tabindex] value greater than 0

A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. <u>Learn more</u>.

Failing Elements	
a#default-ar-button.fab	

These are opportunities to improve keyboard navigation in your application. ADDITIONAL ITEMS TO MANUALLY CHECK (10) Hide O The page has a logical tab order Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. Learn more. O Interactive controls are keyboard focusable Custom interactive controls are keyboard focusable and display a focus indicator. Learn more. O Interactive elements indicate their purpose and state Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. Learn more. O The user's focus is directed to new content added to the page If new content, such as a dialog, is added to the page, the user's focus is directed to it. Learn more. O User focus is not accidentally trapped in a region A user can tab into and out of any control or region without accidentally trapping their focus. Learn more. Custom controls have associated labels Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. Learn more. Custom controls have ARIA roles Custom interactive controls have appropriate ARIA roles. Learn more. O Visual order on the page follows DOM order DOM order matches the visual order, improving navigation for assistive technology. Learn more. Offscreen content is hidden from assistive technology

Offscreen content is hidden with display: none or aria-hidden=true. Learn more.

O HTML5 landmark elements are used to improve navigation Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology. Learn more. These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review. PASSED AUDITS (13) Hide [aria-hidden="true"] is not present on the document <body> Assistive technologies, like screen readers, work inconsistently when `aria-hidden="true"` is set on the document `<body>`. Learn more. [role]s have all required [aria-\*] attributes Some ARIA roles have required attributes that describe the state of the element to screen readers. Learn more. [role] values are valid ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more. [aria-\*] attributes have valid values Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn more. [aria-\*] attributes are valid and not misspelled Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more. Buttons have an accessible name When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for users who rely on screen readers. Learn more. [user-scalable="no"] is not used in the <meta name="viewport"> element and the [maximum-scale] attribute is not less than 5. Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the contents of a web page. Learn more. [aria-hidden="true"] elements do not contain focusable descendents

	users of assistive technologies like screen readers. <u>Learn more</u> .	
	Background and foreground colors have a sufficient contrast ratio	^
	Low-contrast text is difficult or impossible for many users to read. <u>Learn more</u> .	
	Document has a <title> element&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a pair is relevant to their search. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;age&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;[id] attributes on active, focusable elements are unique&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;All focusable elements must have a unique 'id' to ensure that they're visible to assistive technologies. Learn more.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;html&gt; element has a [lang] attribute&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might announce the page's text correctly. Learn more.&lt;/td&gt;&lt;td&gt;not&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;html&gt; element has a valid value for its [lang] attribute&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Specifying a valid &lt;u&gt;BCP 47 language&lt;/u&gt; helps screen readers announce text properly. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;NC&lt;/td&gt;&lt;td&gt;OT APPLICABLE (28)&lt;/td&gt;&lt;td&gt;Hide&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;[accesskey] values are unique&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more&lt;/td&gt;&lt;td&gt;&lt;u&gt;e&lt;/u&gt;.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;(&lt;/td&gt;&lt;td&gt;button, link, and menuitem elements have accessible names&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable users who rely on screen readers. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;for&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;(&lt;/td&gt;&lt;td&gt;ARIA input fields have accessible names&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;When an input field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;le&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;(&lt;/td&gt;&lt;td&gt;ARIA meter elements have accessible names&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>	

Focusable descendents within an `[aria-hidden="true"]` element prevent those interactive elements from being available to

	users who rely on screen readers. <u>Learn more</u> .	
0	ARIA progressbar elements have accessible names	^
	When a `progressbar` element doesn't have an accessible name, screen readers announce it with a generic name, making unusable for users who rely on screen readers. <u>Learn more</u> .	it
0	Elements with an ARIA [role] that require children to contain a specific [role] have all required children.	^
	Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. <u>Learn more</u> .	
0	[role]s are contained by their required parent element	^
	Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility function Learn more.	is.
0	ARIA toggle fields have accessible names	^
	When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .	e
0	ARIA tooltip elements have accessible names	^
	When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable f users who rely on screen readers. <u>Learn more</u> .	for
0	ARIA treeitem elements have accessible names	^
	When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable f users who rely on screen readers. <u>Learn more</u> .	for
0	The page contains a heading, skip link, or landmark region	^
,	Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. Learn more.	
0	<pre><dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</pre></td><td>^</td></tr><tr><td></td><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn mor</u></td><td><u>e</u>.</td></tr><tr><td>0</td><td>Definition list items are wrapped in <dl> elements</td><td>^</td></tr><tr><td></td><td>Definition list items ('<dt>' and '<dd>') must be wrapped in a parent '<dl>' element to ensure that screen readers can properly announce them. <u>Learn more</u>.</td><td></td></tr></tbody></table></script></dd></dt></dl></pre>	

When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for

	The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Lea</u> more.	<u>arn</u>
0	No form fields have multiple labels	
	Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use eithe first, the last, or all of the labels. <u>Learn more</u> .	the
0	Heading elements appear in a sequentially-descending order	
	Properly ordered headings that do not skip levels convey the semantic structure of the page, making it easier to navigat and understand when using assistive technologies. <u>Learn more</u> .	:e
0	Image elements have [alt] attributes	
	nformative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty attribute. <u>Learn more</u> .	ı alt
0	<pre><input type="image"/> elements have [alt] text</pre>	
	When an image is being used as an ` <input/> ` button, providing alternative text can help screen reader users understand burpose of the button. <u>Learn more</u> .	th t
0	Form elements have associated labels	
l	Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more.	
0	Links have a discernible name	
	Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. <u>Learn more</u> .	
0	Lists contain only <li>elements and script supporting elements (<script> and <template>).</td><td></td></tr><tr><td>9</td><td>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn m</u></td><td>ore</td></tr><tr><td>0</td><td>List items (<li>) are contained within <ul> or <ol> parent elements</td><td></td></tr><tr><td></td><td>Screen readers require list items (`<li>`) to be contained within a parent `<ul>` or `<ol>` to be announced properly. <u>Leamore</u>.</td><td><u>rn</u></td></tr><tr><td>0</td><td>The document does not use <meta http-equiv="refresh"></td><td></td></tr></tbody></table></script></li>	

Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. <u>Learn more</u>.

Screen readers cannot translate non-text content. Adding alternate text to `<object>` elements helps screen readers convey meaning to users. Learn more.

O Cells in a element that use the [headers] attribute refer to table cells within the same table.

Screen readers have features to make navigating tables easier. Ensuring `` cells using the `[headers]` attribute only refer to other cells in the same table may improve the experience for screen reader users. Learn more.

elements and elements with [role="columnheader"/"rowheader"] have data cells they describe.

Screen readers have features to make navigating tables easier. Ensuring table headers always refer to some set of cells may improve the experience for screen reader users. <u>Learn more</u>.

O [lang] attributes have a valid value

O <object> elements have alternate text

Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen reader. <u>Learn more</u>.

<video> elements contain a <track> element with [kind="captions"]

When a video provides a caption it is easier for deaf and hearing impaired users to access its information. Learn more.



## **Best Practices**

### TRUST AND SAFETY

Ensure CSP is effective against XSS attacks

A strong Content Security Policy (CSP) significantly reduces the risk of cross-site scripting (XSS) attacks. Learn more

Description Directive Severity

No CSP found in enforcement mode High

#### Detected JavaScript libraries

All front-end JavaScript libraries detected on the page. Learn more.

Name	Version
LitElement	3.2.2
lit-html	2.4.0

PASSED AUDITS (13)
Hide

### Uses HTTPS

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding <u>mixed content</u>, where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS prevents intruders from tampering with or passively listening in on the communications between your app and your users, and is a prerequisite for HTTP/2 and many new web platform APIs. <u>Learn more</u>.

Avoids requesting the geolocation permission on page load

Users are mistrustful of or confused by sites that request their location without context. Consider tying the request to a user action instead. <u>Learn more</u>.

Avoids requesting the notification permission on page load

Users are mistrustful of or confused by sites that request to send notifications without context. Consider tying the request to user gestures instead. <u>Learn more</u>.

 $\wedge$ 

Avoids front-end JavaScript libraries with known security vulnerabilities

Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited by attackers. <u>Learn more</u>.

Allows users to paste into password fields

Preventing password pasting undermines good security policy. Learn more.

Displays images with correct aspect ratio

Image display dimensions should match natural aspect ratio. <u>Learn more</u>.

Serves images with appropriate resolution

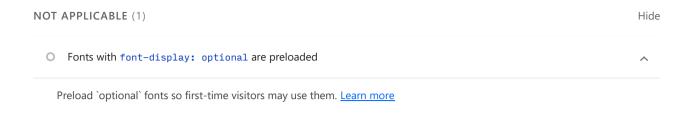
Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. <u>Learn</u> more.

Page has the HTML doctype Specifying a doctype prevents the browser from switching to guirks-mode. Learn more. Properly defines charset A character encoding declaration is required. It can be done with a `<meta>` tag in the first 1024 bytes of the HTML or in the Content-Type HTTP response header. Learn more. Avoids deprecated APIs Deprecated APIs will eventually be removed from the browser. Learn more. No browser errors logged to the console Errors logged to the console indicate unresolved problems. They can come from network request failures and other browser concerns. Learn more No issues in the Issues panel in Chrome Devtools Issues logged to the 'Issues' panel in Chrome Devtools indicate unresolved problems. They can come from network request failures, insufficient security controls, and other browser concerns. Open up the Issues panel in Chrome DevTools for more details on each issue. Page has valid source maps Source maps translate minified code to the original source code. This helps developers debug in production. In addition, Lighthouse is able to provide further insights. Consider deploying source maps to take advantage of these benefits. Learn more. ✓ Show 3rd-party resources (1) URL Map URL ...deps/web3.js?v=eaf707da (localhost) ...deps/web3.js.map (localhost) Warning: missing 58 items in `.sourcesContent` ...dist/model-viewer.min.js (unpkg.com) ...dist/model-viewer.min.js.map (unpkg.com) ...views/HomeView.vue (localhost)

...stores/user.store.ts (localhost)

...router/index.ts (localhost)

URL	Map URL
src/main.ts?t=167 (localhost)	
firestore/firestore.ts (localhost)	
firestore/db.ts (localhost)	
icons/lconTooling.vue (localhost)	
icons/lconSupport.vue (localhost)	
icons/lconEcosystem.vue (localhost)	
icons/IconDocumentation.vue (localhost)	
icons/lconCommunity.vue (localhost)	
components/HomeContent.vue (localhost)	
components/HelloWorld.vue (localhost)	
components/ContentRow.vue (localhost)	
src/App.vue?t=167 (localhost)	
client/env.mjs (localhost)	
deps/vue.js?v=eaf707da (localhost)	deps/vue.js.map (localhost)
deps/vue-router.js?v=eaf707da (localhost)	deps/vue-router.js.map (localhost)
deps/pinia.js?v=eaf707da (localhost)	deps/pinia.js.map (localhost)
deps/firebase_firestore.js?v=eaf707da (localhost)	deps/firebase_firestore.js.map (localhost)
deps/firebase_app.js?v=eaf707da (localhost)	deps/firebase_app.js.map (localhost)
deps/chunk-RSJERJUL.js?v=eaf707da (localhost)	deps/chunk-RSJERJUL.js.map (localhost)
deps/chunk-QO6ZHO7P.js?v=eaf707da (localhost)	deps/chunk-QO6ZHO7P.js.map (localhost)
deps/chunk-FVZHS5AO.js?v=eaf707da (localhost)	deps/chunk-FVZHS5AO.js.map (localhost)
deps/chunk-6HGNATVO.js?v=eaf707da (localhost)	deps/chunk-6HGNATVO.js.map (localhost)
@vite/client (localhost)	





### **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 <a href="Core Web Vitals">Core Web Vitals</a>. Learn more.

#### CONTENT BEST PRACTICES

▲ Document does not have a meta description

Meta descriptions may be included in search results to concisely summarize page content. Learn more.

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

### CRAWLING AND INDEXING

▲ Links are not crawlable

Search engines may use `href` attributes on links to crawl websites. Ensure that the `href` attribute of anchor elements links to an appropriate destination, so more pages of the site can be discovered. <u>Learn More</u>

Uncrawlable Link

a#default-ar-button.fab

a#default-exit-webxr-ar-button

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

# ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

Structured data is valid

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

<ul> <li>Has a <meta name="viewport"/> tag with width or initial-scale</li> <li>A `<meta name="viewport"/> `not only optimizes your app for mobile screen sizes, but also prevents a 300 millisecond of to user input. Learn more. (TBT)</li> <li>Document has a <title> element&lt;/li&gt; &lt;/ul&gt;&lt;/th&gt;&lt;th&gt;delay.&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;to user input. Learn more. (TBT)&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Document has a &lt;title&gt; element&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. Learn more.&lt;/td&gt;&lt;td&gt;age&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Page has successful HTTP status code&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Pages with unsuccessful HTTP status codes may not be indexed properly. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Links have descriptive text&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Descriptive link text helps search engines understand your content. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Page isn't blocked from indexing&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Search engines are unable to include your pages in search results if they don't have permission to crawl them. Learn mo&lt;/td&gt;&lt;td&gt;ore.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Document has a valid hreflang&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;hreflang links tell search engines what version of a page they should list in search results for a given language or region &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Document uses legible font sizes — 100% legible text&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Font sizes less than 12px are too small to be legible and require mobile visitors to "pinch to zoom" in order to read. Strive have &lt;math&gt;&gt;60\%&lt;/math&gt; of page text &lt;math&gt;\ge 12&lt;/math&gt;px. Learn more.&lt;/td&gt;&lt;td&gt;ve to&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Source Selector % of Page Text Font Size&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Legible text 100.00% ≥ 12px&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Document avoids plugins&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title></li></ul>
---

• Tap targets are sized appropriately — 100% appropriately sized tap targets

Interactive elements like buttons and links should be large enough (48x48px), and have enough space around them, to be easy enough to tap without overlapping onto other elements. <u>Learn more</u>.

NOT APPLICABLE (3) Hide

robots.txt is valid

If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. <u>Learn more</u>.

Image elements have [alt] attributes

Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. <u>Learn more</u>.

O Document has a valid rel=canonical

Canonical links suggest which URL to show in search results. Learn more.



# **PWA**

These checks validate the aspects of a Progressive Web App. Learn more.



Web app manifest or service worker do not meet the installability requirements — 1 reason

Service worker is the technology that enables your app to use many Progressive Web App features, such as offline, add to homescreen, and push notifications. With proper service worker and manifest implementations, browsers can proactively prompt users to add your app to their homescreen, which can lead to higher engagement. <u>Learn more</u>.

Failure reason

Page has no manifest <link> URL

▲ Does not register a service worker that controls page and start_url	^
The service worker is the technology that enables your app to use many Progressive Web App features, such as offline, act to homescreen, and push notifications. <u>Learn more</u> .	dd
▲ Is not configured for a custom splash screen Failures: No manifest was fetched.	^
A themed splash screen ensures a high-quality experience when users launch your app from their homescreens. <u>Learn mo</u>	ore.
Does not set a theme color for the address bar.  Failures: No manifest was fetched, No ` <meta name="theme-color"/> ` tag found.	^
The browser address bar can be themed to match your site. <u>Learn more</u> .	
Content is sized correctly for the viewport	^
If the width of your app's content doesn't match the width of the viewport, your app might not be optimized for mobile screens. <u>Learn more</u> .	
Has a <meta name="viewport"/> tag with width or initial-scale	^
A ` <meta name="viewport"/> ` not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond de to user input</u> . <u>Learn more</u> . TBT	<u>elay</u>
▲ Does not provide a valid apple-touch-icon	^
Does not provide a valid apple-touch-icon  For ideal appearance on iOS when users add a progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. Learn More.	^
For ideal appearance on iOS when users add a progressive web app to the home screen, define an `apple-touch-icon`. It	^
For ideal appearance on iOS when users add a progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. <u>Learn More</u> .	^
For ideal appearance on iOS when users add a progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. Learn More.  Manifest doesn't have a maskable icon No manifest was fetched  A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a device of the progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. Learn More.	^
For ideal appearance on iOS when users add a progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. Learn More.  Manifest doesn't have a maskable icon No manifest was fetched  A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a deviation.	^ cice.
For ideal appearance on iOS when users add a progressive web app to the home screen, define an `apple-touch-icon`. It must point to a non-transparent 192px (or 180px) square PNG. Learn More.  Manifest doesn't have a maskable icon No manifest was fetched  A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a devi Learn more.  ADDITIONAL ITEMS TO MANUALLY CHECK (3)	^ ice.
For ideal appearance on iOS when users add a progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. Learn More.  Manifest doesn't have a maskable icon No manifest was fetched  A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a devi Learn more.  ADDITIONAL ITEMS TO MANUALLY CHECK (3)  Site works cross-browser	^ ice.
For ideal appearance on iOS when users add a progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. Learn More.  Manifest doesn't have a maskable icon No manifest was fetched  A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a devi Learn more.  ADDITIONAL ITEMS TO MANUALLY CHECK (3)  Site works cross-browser  To reach the most number of users, sites should work across every major browser. Learn more.	A cce.

Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability or	n social media
Learn more.	

These checks are required by the baseline <u>PWA Checklist</u> but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Dec 25, 2022, 1:56 PM CST	Emulated Moto G4 with Lighthouse 9.6.6	Single page load
nitial page load	Slow 4G throttling	Using Chromium 108.0.0.0 with devtools

Generated by **Lighthouse** 9.6.6 | File an issue