











Performance

Accessibility

Best Practices SEO PWA

There were issues affecting this run of Lighthouse:

• Chrome extensions negatively affected this page's load performance. Try auditing the page in incognito mode or from a Chrome profile without extensions.



Performance

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

A (

0-49

50-89

90-100



Expand view

METRICS

First Contentful Paint

0.6 s

Total Blocking Time

30 ms

▲ Speed Index

2.6 s

▲ Largest Contentful Paint

3.9 s

Cumulative Layout Shift

0

View Treemap



▲ Defer offscreen images — Potential savings of 2,132 KiB

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. <u>Learn how to defer offscreen images</u>.

	URL	Resource Size	Potential Savings
127.0.0.1 (1st Party)		2,131.6 KiB	2,131.6 KiB
	img .im gimages/IM fluid	MG_5400.jpg (127.0.0.1) 2,131.6 KiB	2,131.6 KiB

▲ Largest Contentful Paint element — 3,940 ms

This is the largest contentful element painted within the viewport. <u>Learn more about the Largest Contentful Paint element</u> [LCP]

Element	
	div.position-relative.overflow-hidden.p-3.p-md-5.m-md-3.text-center.student-shopping

Phase	% of LCP	Timing
TTFB	3%	120 ms
Load Delay	84%	3,310 ms
Load Time	0%	10 ms
Render Delay	12%	480 ms

▲ Serve images in next-gen formats — Potential savings of 1,055 KiB

	URL	Resource Size	Potential Savings
127.0.0.1 (1st Party)		4,015.0 KiB	1,055.3 KiB
div.position - relative.ov erflow- hidden.p- 3.p-md-5.m-md-3.text- center.student-shopping	images/john-schnjpg (127.0.0.1)	1,547.6 KiB	733.8 KiB
img.img- fluid	images/IMG_5400.jpg (127.0.0.1)	2,131.6 KiB	147.1 KiB
img.i mg- fluid	portfolio/portfolio-2.jpg (127.0.0.1)	143.5 KiB	73.4 KiB
img.i mg- fluid	portfolio/portfolio-7.jpg (127.0.0.1)	94.3 KiB	58.9 KiB
img.i mg- fluid	portfolio/portfolio-8.jpg (127.0.0.1)	29.1 KiB	11.3 KiB
img.i mg- fluid	portfolio/portfolio-1.jpg (127.0.0.1)	24.7 KiB	11.0 KiB
img.i mg- fluid	portfolio/portfolio-6.jpg (127.0.0.1)	21.3 KiB	10.7 KiB
img.i mg- fluid	portfolio/portfolio-9.jpg (127.0.0.1)	22.9 KiB	8.9 KiB

URL	Resource Size	Potential Savings

▲ Enable text compression — Potential savings of 38 KiB

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

URL	Transfer Size	Potential Savings
127.0.0.1 1st Party	52.3 KiB	37.8 KiB
pages/Homepage.html (127.0.0.1)	34.8 KiB	25.7 KiB
css/Main.css (127.0.0.1)	12.8 KiB	8.8 KiB
js/Main.js (127.0.0.1)	4.7 KiB	3.3 KiB

▲ Eliminate render-blocking resources — Potential savings of 290 ms

Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical JS/styles. <u>Learn how to eliminate render-blocking resources</u>. [FCP] [LCP]

URL	Transfer Size	Potential Savings
JSDelivr CDN Cdn	34.2 KiB	260 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	34.2 KiB	260 ms

▲ Efficiently encode images — Potential savings of 19 KiB

Optimized images load faster and consume less cellular data. Learn how to efficiently encode images.

		URL	Resource Size	Potential Savings
127.0.0.1 (1st Party)			1,641.9 KiB	19.3 KiB
center.student-shoppi	div.position- relative.overfl ow-hidden.p- 3.p-md-5.m- md-3.text-	images/john-schnjpg (127.0.0.1)	1,547.6 KiB	12.6 KiB

UI	RL	Resource Size	Potential Savings
img.im g-fluid 	portfolio/portfolio-7.jpg (127.0.0.1)	94.3 KiB	6.7 KiB

▲ Reduce unused CSS — Potential savings of 13 KiB

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. Learn how to reduce unused CSS. FCP [LCP]

URL	Transfer Size	Potential Savings
JSDelivr CDN Cdn	13.3 KiB	13.2 KiB
font/bootstrap-icons.css (cdn.jsdelivr.net)	13.3 KiB	13.2 KiB

▲ Page prevented back/forward cache restoration — 1 failure reason

Many navigations are performed by going back to a previous page, or forwards again. The back/forward cache (bfcache) can speed up these return navigations. <u>Learn more about the bfcache</u>

Failure reason	Failure type
Pages with WebSocket cannot enter back/forward cache.	Pending browser support
pages/Homepage.html (127.0.0.1)	

Preload Largest Contentful Paint image

If the LCP element is dynamically added to the page, you should preload the image in order to improve LCP. <u>Learn more about preloading LCP elements</u>. <u>[LCP]</u>

		URL	Potential Savings
127.0.0.1 (1st Party)			0 ms
	div.position- relative.overflow-hidden.p- 3.p-md-5.m-md-3.text- center.student-shopping	images/john-schnjpg (127.0.0.1)	0 ms

Image elements do not have explicit width and height

Set an explicit width and height on image elements to reduce layout shifts and improve CLS. <u>Learn how to set image</u> <u>dimensions</u> <u>CLS</u>

		URL
127.0.0.1 (1st Party)		
	img.img-fluid	portfolio/portfolio-2.jpg (127.0.0.1)
	img.img-fluid	portfolio/portfolio-9.jpg (127.0.0.1)
	img.img-fluid	portfolio/portfolio-7.jpg (127.0.0.1)
	img.img-fluid	portfolio/portfolio-1.jpg (127.0.0.1)
	img.img-fluid	portfolio/portfolio-5.jpg (127.0.0.1)
	img.img-fluid	portfolio/portfolio-6.jpg (127.0.0.1)
	img.img-fluid	portfolio/portfolio-8.jpg (127.0.0.1)



Minify CSS — Potential savings of 7 KiB

Minifying CSS files can reduce network payload sizes. <u>Learn how to minify CSS</u>. FCP [LCP]

URL	Transfer Size	Potential Savings
127.0.0.1 (1st Party)	13.2 KiB	6.8 KiB
css/Main.css (127.0.0.1)	13.2 KiB	6.8 KiB

Minify JavaScript — Potential savings of 28 KiB

Minifying JavaScript files can reduce payload sizes and script parse time. Learn how to minify JavaScript. FCP [LCP]

✓ Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
Unattributable	54.0 KiB	24.9 KiB
<pre>chrome- extension://dmghijelimhndkbmpgbldicpogfkceaj/data/content_script/resources/na tive.js</pre>	20.4 KiB	9.7 KiB
<pre>chrome-extension://cjpalhdlnbpafiamejdnhcphjbkeiagm/js/contentscript.js</pre>	14.7 KiB	7.8 KiB

URL	Transfer Size	Potential Savings
<pre>chrome- extension://dmghijelimhndkbmpgbldicpogfkceaj/data/content_script/vendor/tinyc olor.js</pre>	11.8 KiB	5.2 KiB
<pre>chrome- extension://dmghijelimhndkbmpgbldicpogfkceaj/data/content_script/inject.js</pre>	7.1 KiB	2.3 KiB
Selenium IDE Chrome Extension	7.1 KiB	2.8 KiB
chrome-extension://mooikfkahbdckldjjndioackbalphokd/assets/prompt.js	7.1 KiB	2.8 KiB

Properly size images — Potential savings of 358 KiB

Serve images that are appropriately-sized to save cellular data and improve load time. <u>Learn how to size images</u>.

	URL	Resource Size	Potential Savings
127.0.0.1 (1st Party)		441.0 KiB	358.3 KiB
	img .im gportfolio/portfolio-2.jpg (127.0.0.1) flui d	143.5 KiB	133.1 KiB
	img .im gportfolio/portfolio-7.jpg (127.0.0.1) flui d	94.3 KiB	86.2 KiB
	img .im gportfolio/portfolio-8.jpg (127.0.0.1) flui d	29.1 KiB	23.5 KiB
	img .im gportfolio/portfolio-9.jpg (127.0.0.1) flui d	22.9 KiB	21.1 KiB
	imgportfolio/portfolio-1.jpg (127.0.0.1) .im g-	24.7 KiB	20.8 KiB

	URL	Resource Size	Potential Savings
d	flui		
	mg im gportfolio/portfolio-3.jpg (127.0.0.1) flui	18.7 KiB	15.1 KiB
	mg im gportfolio/portfolio-4.jpg (127.0.0.1) ilui	17.5 KiB	14.1 KiB
	mg im gportfolio/portfolio-6.jpg (127.0.0.1) flui	21.3 KiB	13.5 KiB
	mg im gportfolio/portfolio-5.jpg (127.0.0.1) flui	21.0 KiB	13.4 KiB
	mgimages/accessibility.jpg (127.0.0.1)	19.8 KiB	12.1 KiB
img.img-fluid	images/OIP%20(2).jpg (127.0.0.1)	28.1 KiB	5.4 KiB

Avoid serving legacy JavaScript to modern browsers — Potential savings of 14 KiB

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 how to use modern JavaScript (TBT)

URL Potential Savings

Unattributable

Show 3rd-party resources (1)

Potential Savings

14.0 KiB

URL		Potential Savings
<pre>chrome- extension://mmanaflgaempokjfbeeabkadnkoidjam/screenshot. js</pre>		14.0 KiB
screenshot.js:1	Array.prototype.fill	
screenshot.js:1	Array.prototype.filter	
screenshot.js:1	Array.prototype.find	
screenshot.js:1	Array.from	
screenshot.js:1	Array.prototype.map	
screenshot.js:1	Object.entries	
screenshot.js:1	Object.keys	
screenshot.js:1	<pre>@babel/plugin-transform- classes</pre>	
screenshot.js:1	String.fromCodePoint	
JSDelivr CDN Cdn		0.0 KiB
intro.js@7.2.0/intro.min.js (cdn.jsdelivr.net)		0.0 KiB
intro.min.js:16	@babel/plugin-transform- classes	

Reduce unused JavaScript — Potential savings of 397 KiB

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

✓ Show 3rd-party resources (2)

URL	Transfer Size	Potential Savings
Unattributable	438.2 KiB	279.6 KiB
chrome-extension://mmanaflgaempokjfbeeabkadnkoidjam/screenshot.js	372.6 KiB	225.7 KiB
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/renderer.js	37.7 KiB	33.2 KiB
<pre>chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/libs/jquery-3.1.1.min.js</pre>	27.9 KiB	20.6 KiB
Selenium IDE Chrome Extension	191.4 KiB	117.9 KiB
<pre>chrome-extension://mooikfkahbdckldjjndioackbalphokd/assets/atoms.js</pre>	159.9 KiB	91.4 KiB
chrome-extension://mooikfkahbdckldjjndioackbalphokd/assets/playback.js	31.5 KiB	26.5 KiB

^

Large network payloads cost users real money and are highly correlated with long load times. <u>Learn how to reduce payload sizes</u>. [LCP]

✓ Show 3rd-party resources (3)

URL	Transfer Size
127.0.0.1 (1st Party)	4,011.3 KiB
images/IMG_5400.jpg (127.0.0.1)	2,131.9 KiB
images/john-schnjpg (127.0.0.1)	1,547.9 KiB
portfolio/portfolio-2.jpg (127.0.0.1)	143.9 KiB
portfolio/portfolio-7.jpg (127.0.0.1)	94.6 KiB
pages/Homepage.html (127.0.0.1)	35.1 KiB
portfolio/portfolio-8.jpg (127.0.0.1)	29.4 KiB
images/OIP%20(2).jpg (127.0.0.1)	28.4 KiB
JSDelivr CDN Cdn	162.0 KiB
fonts/bootstrap-icons.woff2?2820a38 (cdn.jsdelivr.net)	127.8 KiB
css/bootstrap.min.css (cdn.jsdelivr.net)	34.2 KiB
jQuery CDN Cdn	30.5 KiB
/jquery-3.6.0.min.js (code.jquery.com)	30.5 KiB

JavaScript execution time — 0.2 s

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn how to reduce Javascript execution time. TBT

URL	Total CPU Time	Script Evaluation	Script Parse
Unattributable	314 ms	115 ms	40 ms
Unattributable	162 ms	3 ms	0 ms
chrome-	152 ms	112 ms	40 ms

URL	Total CPU Time	Script Evaluation	Script Parse
extension://mmanaflgaempokjfbeeabkadnkoidjam/screenshot.js			
127.0.0.1 (1st Party)	280 ms	36 ms	17 ms
pages/Homepage.html (127.0.0.1)	280 ms	36 ms	17 ms

Minimizes main-thread work — 0.8 s

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. Learn how to minimize main-thread work (TBT)

Category	Time Spent
Other	296 ms
Script Evaluation	236 ms
Script Parsing & Compilation	83 ms
Style & Layout	82 ms
Rendering	32 ms
Parse HTML & CSS	25 ms
Garbage Collection	1 ms

Avoid long main-thread tasks — 4 long tasks found

Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. <u>Learn how to avoid long main-thread tasks</u> (TBT)

✓ Show 3rd-party resources (1)

URL	Start Time	Duration
127.0.0.1 (1st Party)		205 ms
pages/Homepage.html (127.0.0.1)	482 ms	155 ms
pages/Homepage.html (127.0.0.1)	230 ms	50 ms
Unattributable		91 ms
Unattributable	328 ms	91 ms

URL	Start Time	Duration
Selenium IDE Chrome Extension		81 ms
chrome-extension://mooikfkahbdckldjjndioackbalphokd/assets/vendor/globa	l.js 647 ms	81 ms
User Timing marks and measures — 1 user timing		^
Consider instrumenting your app with the User Timing API to measure your app's real-vexperiences. Learn more about User Timing marks.	world performance durin	g key user
Name Type Sta	art Time	Duration
v3 Mark	0.00 ms	
Initial server response time was short — Root document took 0 ms Keep the server response time for the main document short because all other requests Time to First Byte metric. FCP LCP	depend on it. <u>Learn mo</u>	re about the
URL		Time Spent
127.0.0.1 (1st Party)		0 ms
pages/Homepage.html (127.0.0.1)		0 ms
Avoids an excessive DOM size — 273 elements		^



Statistic	Element	Value	;
Maximum Child Elements		ul 19)

Avoid chaining critical requests — 8 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 how to avoid chaining critical requests. FCP LCP

Maximum critical path latency: 4,091.206 ms

Initial Navigation

- ...pages/Homepage.html (127.0.0.1)
 - ...css/bootstrap.min.css (cdn.jsdelivr.net) 2,130.088 ms, 34.23 KiB
 - ...css/Main.css (127.0.0.1) 4.48 ms, 13.17 KiB
 - ...font/bootstrap-icons.css (cdn.jsdelivr.net)
 - ...fonts/bootstrap-icons.woff2?2820a38... (cdn.jsdelivr.net) 39.247 ms, 127.76 KiB
 - ...minified/introjs.min.css (cdn.jsdelivr.net) 2,112.493 ms, 1.91 KiB
 - ...js/bootstrap.bundle.min.js (cdn.jsdelivr.net) 2,058.025 ms, 25.00 KiB

/jquery-3.6.0.min.js (code.jquery.com) - 4,001.778 ms, 30.48 KiB

- ...intro.js@7.2.0/intro.min.js (cdn.jsdelivr.net) 2,058.82 ms, 13.77 KiB
- ...js/Main.js (127.0.0.1) 13.28 ms, 5.05 KiB

Minimize third-party usage — Third-party code blocked the main thread for 0 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 how to minimize third-party impact</u>. (TBT)

Third-Party	Transfer Size	Main-Thread Blocking Time
JSDelivr CDN Cdn	216 KiB	0 ms
fonts/bootstrap-icons.woff2?2820a38 (cdn.jsdelivr.net)	128 KiB	0 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	34 KiB	0 ms
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	25 KiB	0 ms
intro.js@7.2.0/intro.min.js (cdn.jsdelivr.net)	14 KiB	0 ms
font/bootstrap-icons.css (cdn.jsdelivr.net)	14 KiB	0 ms
minified/introjs.min.css (cdn.jsdelivr.net)	2 KiB	0 ms
jQuery CDN Cdn	30 KiB	0 ms

Third-Party	Transfer Size	Main-Thread Blocking Time
/jquery-3.6.0.min.js (code.jquery.com)	30 KiB	0 ms
Selenium IDE Chrome Extension	7 KiB	0 ms
<pre>chrome- extension://mooikfkahbdckldjjndioackbalphokd/assets/prompt.js</pre>	7 KiB	0 ms

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

PASSED AUDITS (15)	Hide
Preconnect to required origins	^
Consider adding preconnect or dns-prefetch resource hints to establish early connections to important third-party origins. Learn how to preconnect to required origins. FCP LCP	
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. Learn how to avoid page redirects. FCP LCP	
O Preload key requests	^
Consider using <link rel="preload"/> to prioritize fetching resources that are currently requested later in page load. Lhow to preload key requests. FCP LCP	<u>earn</u>
Use HTTP/2	^
HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn more about HTTP/2.	
Use video formats for animated content	^
Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for animations and PNG/WebP for static images instead of GIF to save network bytes. Learn more about efficient video formats CCP	
Remove duplicate modules in JavaScript bundles	^
Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity. [TBT]	
Uses efficient cache policy on static assets — 0 resources found	^
A long cache lifetime can speed up repeat visits to your page. <u>Learn more about efficient cache policies</u> .	
All text remains visible during webfont loads	^

0	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 how to defer third-parties with a facade. (TBT)	<u>0</u>
	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 about optimal lazy loading. LCP	t.
	Element	
	div.position-relative.overflow-hidden.p-3.p-md-5.m-md-3.text-center.student-shopping	
0	Avoid large layout shifts	^
	These are the largest layout shifts observed on the page. Each table item represents a single layout shift, and shows the element that shifted the most. Below each item are possible root causes that led to the layout shift. Some of these layout shifts may not be included in the CLS metric value due to windowing. Learn how to improve CLS CLS	
	Uses passive listeners to improve scrolling performance	^
	Consider marking your touch and wheel event listeners as passive to improve your page's scroll performance. <u>Learn marking passive event listeners</u> .	<u>ore</u>
	Avoids document.write()	^
	For users on slow connections, external scripts dynamically injected via document.write() can delay page load by ter of seconds. Learn how to avoid document.write().	าร
0	Avoid non-composited animations	^
	Animations which are not composited can be janky and increase CLS. <u>Learn how to avoid non-composited animations</u> C	LS
	which are not composited can be junky and more deep the area to a void non-composited animations	
	Has a <meta name="viewport"/> tag with width or initial-scale	^

 $Leverage \ the \ font\ - \ display\ CSS\ feature\ to\ ensure\ text\ is\ user\ - visible\ while\ webfonts\ are\ loading.\ \underline{Learn\ more\ about}$

font-display. FCP LCP

Accessibility

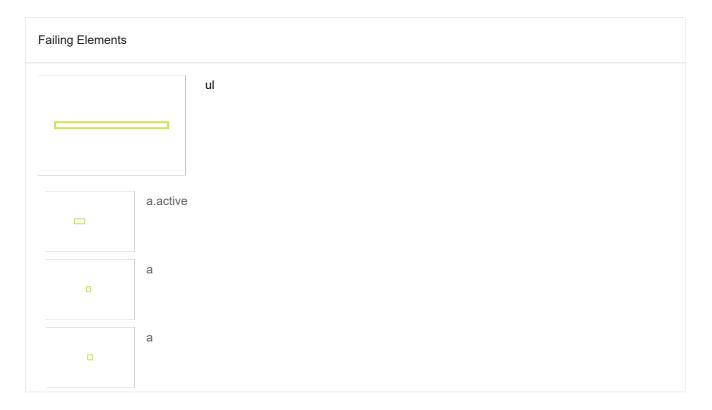
These checks highlight opportunities to improve the accessibility of your web app. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so manual testing is also encouraged.

ARIA



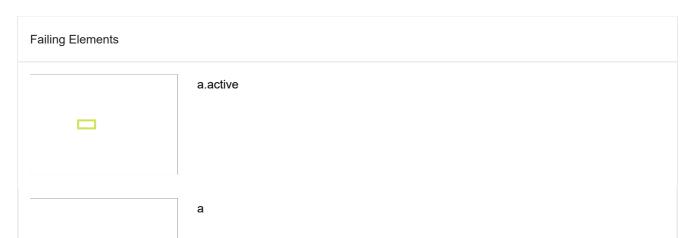
Elements with an ARIA [role] that require children to contain a specific [role] are missing some or all of those required children.

Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. <u>Learn more about roles and required children elements</u>.



▲ button, link, and menuitem elements do not have accessible names.

When an element 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 how to make command elements more accessible</u>.

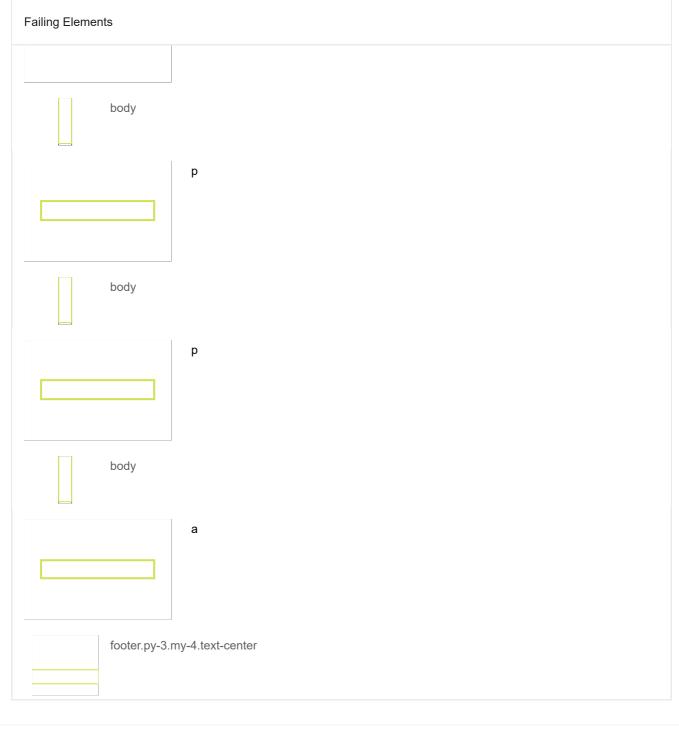


Failing Elements	
	a
	a
	a
	a
	a
	a
	a
	a

Failing Elements	
	a
	a
	a
	a
	a
	a
	a
	a
	а

	Failing Elements	
A	Elements with role="dialog" or role="alertdialog" do not have accessible names.	
	RIA dialog elements without accessible names may prevent screen readers users from discerning the purpose of these lements. Learn how to make ARIA dialog elements more accessible.	
	Failing Elements	
	div.introjs-tooltip.introjs-bottom-left-aligned	
0	ARIA IDs are unique	
	the value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Learn</u> ow to fix duplicate ARIA IDs.	
	Failing Elements	
	div#collapseOne.accordion-collapse.collapse.show	
	div#collapseOne.accordion-collapse.collapse.show	
techn	are opportunities to improve the usage of ARIA in your application which may enhance the experience for users of assistivology, like a screen reader.	е
A	Background and foreground colors do not have a sufficient contrast ratio.	
	ow-contrast text is difficult or impossible for many users to read. <u>Learn how to provide sufficient color contrast</u> .	
	Failing Elements	
	p	

Failing Elements	
body	
	p

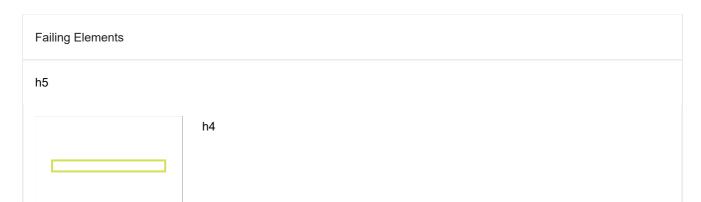


These are opportunities to improve the legibility of your content.

NAVIGATION

▲ Heading elements are not in a sequentially-descending order

Properly ordered headings that do not skip levels convey the semantic structure of the page, making it easier to navigate and understand when using assistive technologies. <u>Learn more about heading order</u>.



Failing Elements	
h5	
These are opportunities to improve keyboard navigation in your application.	
ADDITIONAL ITEMS TO MANUALLY CHECK (10)	Hide
Interactive controls are keyboard focusable	^
Custom interactive controls are keyboard focusable and display a focus indicator. Learn how to make focusable.	custom controls
Interactive elements indicate their purpose and state	^
Interactive elements, such as links and buttons, should indicate their state and be distinguishable from elements. Learn how to decorate interactive elements with affordance hints.	n non-interactive
The page has a logical tab order	^
Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. <u>logical tab ordering.</u>	<u>-earn more about</u>
O Visual order on the page follows DOM order	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more about</u> ordering.	t DOM and visual
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 ho	ow to avoid focus traps.
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 how to content.	direct focus to new
O HTML5 landmark elements are used to improve navigation	^
Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page technology. <u>Learn more about landmark elements</u>.</nav></main>	for assistive
Offscreen content is hidden from assistive technology	^

Custom controls have associated labels Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. Learn more about custom controls and labels. Custom controls have ARIA roles Custom interactive controls have appropriate ARIA roles. Learn how to add roles to custom controls. These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review. PASSED AUDITS (21) Hide [aria-*] attributes match their roles Each ARIA role supports a specific subset of aria-* attributes. Mismatching these invalidates the aria-* attributes. Learn how to match ARIA attributes to their roles. [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

 [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 about roles and required attributes. [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 functions. Learn more about ARIA roles and required parent element. [aria-*] attributes have valid values Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn more about valid values for ARIA attributes. [aria-*] attributes are valid and not misspelled Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more about valid ARIA attributes. Buttons have an accessible name

Offscreen content is hidden with display: none or aria-hidden=true. Learn how to properly hide offscreen content.

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 how to make buttons more accessible. Image elements have [alt] attributes Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. Learn more about the alt attribute. [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 about the viewport meta tag. [aria-hidden="true"] elements do not contain focusable descendents Focusable descendents within an [aria-hidden="true"] element prevent those interactive elements from being available to users of assistive technologies like screen readers. Learn how aria-hidden affects focusable elements. [role] values are valid ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more about valid ARIA roles. Document has a <title> element 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 about document titles. [id] attributes on active, focusable elements are unique All focusable elements must have a unique id to ensure that they're visible to assistive technologies. Learn how to fix duplicate ids. <html> element has a [lang] attribute 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 not announce the page's text correctly. Learn more about the lang attribute. <html> element has a valid value for its [lang] attribute

Labels ensure that form controls are announced properly by assistive technologies, like screen readers. <u>Learn more about form element labels</u>.

Specifying a valid BCP 47 language helps screen readers announce text properly. Learn how to use the lang attribute.

Form elements have associated labels

Links are distinguishable without relying on color.	^
Low-contrast text is difficult or impossible for many users to read. Link text that is discernible improves the exper users with low vision. <u>Learn how to make links distinguishable</u> .	ence for
Links have a discernible name	^
Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves t navigation experience for screen reader users. <u>Learn how to make links accessible</u> .	he
No element has a [tabindex] value greater than 0	^
A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustra experiences for users who rely on assistive technologies. <u>Learn more about the tabindex attribute</u> .	ting
Values assigned to role="" are valid ARIA roles.	^
ARIA roles enable assistive technologies to know the role of each element on the web page. If the role values misspelled, not existing ARIA role values, or abstract roles, then the purpose of the element will not be communusers of assistive technologies. Learn more about ARIA roles.	
Image elements do not have [alt] attributes that are redundant text.	^
Informative elements should aim for short, descriptive alternative text. Alternative text that is exactly the same as adjacent to the link or image is potentially confusing for screen reader users, because the text will be read twice. about the alt attribute.	
NOT APPLICABLE (30)	Hide
[accesskey] values are unique	^
Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. about access keys.	_earn more
ARIA input fields have accessible names	^
When an input field doesn't have an accessible name, screen readers announce it with a generic name, making for users who rely on screen readers. <u>Learn more about input field labels</u> .	it unusable
ARIA meter elements have accessible names	^
When a meter element doesn't have an accessible name, screen readers announce it with a generic name, mak unusable for users who rely on screen readers. Learn how to name meter elements.	ng it
ARIA progressbar elements have accessible names	^
When a progressbar element doesn't have an accessible name, screen readers announce it with a generic na	me, making

 Elements with the role=text attribute do not have focusable descendents. 	^
Adding role=text around a text node split by markup enables VoiceOver to treat it as one phrase, but the element's focusable descendents will not be announced. Learn more about the role=text attribute.	
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 unusa for users who rely on screen readers. <u>Learn more about toggle fields</u> .	ble
 ARIA tooltip elements have accessible names 	^
When a tooltip element 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 how to name tooltip elements</u> .	
 ARIA treeitem elements have accessible names 	^
When a treeitem element doesn't have an accessible name, screen readers announce it with a generic name, making unusable for users who rely on screen readers. Learn more about labeling treeitem elements.	ı it
The page contains a heading, skip link, or landmark region	^
Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. <u>Learn more about bypablocks</u> .	<u>ISS</u>
<dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</td><td>^</td></tr><tr><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn how</u> <u>structure definition lists correctly.</u></td><td><u>v to</u></td></tr><tr><td>O Definition list items are wrapped in <dl> elements</td><td>^</td></tr><tr><td>Definition list items (<dt> and <dd>) must be wrapped in a parent <dl> element to ensure that screen readers can propant announce them. Learn how to structure definition lists correctly.</td><td>perly</td></tr><tr><td>No form fields have multiple labels</td><td>^</td></tr><tr><td>Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use ethe first, the last, or all of the labels. Learn how to use form labels.</td><td>ither</td></tr><tr><td><frame> or <iframe> elements have a title</td><td>^</td></tr><tr><td>Screen reader users rely on frame titles to describe the contents of frames. Learn more about frame titles.</td><td></td></tr><tr><td><html> element has an [xml:lang] attribute with the same base language as the [lang] attribute.</td><td>^</td></tr></tbody></table></script></dd></dt></dl>	

it unusable for users who rely on screen readers. <u>Learn how to label progressbar elements</u>.

O Input buttons have discernible text.	^
Adding discernable and accessible text to input buttons may help screen reader users understand the purpose of the input button. <u>Learn more about input buttons</u> .	ut
<pre>O <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 the purpose of the button. Learn about input image alt text.	I
 Lists contain only elements and script supporting elements (<script> and <template>). </td><td>^</td></tr><tr><td>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. Learn make about proper list structure.</td><td>nore</td></tr><tr><td>List items () are contained within , or <menu> parent elements</td><td>^</td></tr><tr><td>Screen readers require list items () to be contained within a parent , or <menu> to be announced proper Learn more about proper list structure.</td><td>·ly.</td></tr><tr><td>The document does not use <meta http-equiv="refresh"></td><td>^</td></tr><tr><td>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 about the refresh meta tag.</u></td><td></td></tr><tr><td>O <object> elements have alternate text</td><td>^</td></tr><tr><td>Screen readers cannot translate non-text content. Adding alternate text to <object> elements helps screen readers con meaning to users. Learn more about alt text for object elements.</td><td>ıvey</td></tr><tr><td>O Select elements have associated label elements.</td><td>^</td></tr><tr><td>Form elements without effective labels can create frustrating experiences for screen reader users. <u>Learn more about the select element</u>.</td><td></td></tr><tr><td>O Skip links are focusable.</td><td>^</td></tr><tr><td>Including a skip link can help users skip to the main content to save time. Learn more about skip links.</td><td></td></tr><tr><td> Tables have different content in the summary attribute and <caption>. </td><td>^</td></tr><tr><td>The summary attribute should describe the table structure, while <caption> should have the onscreen title. Accurate tal mark-up helps users of screen readers. Learn more about summary and caption.</td><td>ble</td></tr></tbody></table></script>	

If the webpage does not specify a consistent language, then the screen reader might not announce the page's text correctly.

Learn more about the lang attribute.

 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 about the headers attribute. 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. Learn more about table headers. [lang] attributes have a valid value Specifying a valid BCP 47 language on elements helps ensure that text is pronounced correctly by a screen reader. Learn how to use the lang attribute. <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 about video captions. Document has a main landmark. One main landmark helps screen reader users navigate a web page. Learn more about landmarks. Tables use <caption> instead of cells with the [colspan] attribute to indicate a caption. Screen readers have features to make navigating tables easier. Ensuring that tables use the actual caption element instead of cells with the [colspan] attribute may improve the experience for screen reader users. Learn more about captions. elements in a large have one or more table headers. Screen readers have features to make navigating tables easier. Ensuring that elements in a large table (3 or more cells in width and height) have an associated table header may improve the experience for screen reader users. Learn more about table headers.



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 how to use a CSP to prevent XSS

Description	Directive	Severity
No CSP found in enforcement mode		High

GENERAL

Detected JavaScript libraries

Avoids deprecated APIs

Avoids third-party cookies

All front-end JavaScript libraries detected on the page. Learn more about this JavaScript library detection diagnostic audit.

Name	Version
Bootstrap	5.3.2
jQuery	3.6.0

PASSED AUDITS (14) Hide **Uses HTTPS**

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding mixed content, 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. Learn more about HTTPS.

Deprecated APIs will eventually be removed from the browser. Learn more about deprecated APIs.

Support for third-party cookies will be removed in a future version of Chrome. Learn more about phasing out third-party cookies.

Allows users to paste into input fields

Preventing input pasting is a bad practice for the UX, and weakens security by blocking password managers. Learn more about user-friendly input fields.

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. Learn more about the geolocation permission. 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. Learn more about responsibly getting permission for notifications. Displays images with correct aspect ratio Image display dimensions should match natural aspect ratio. Learn more about image aspect ratio. Serves images with appropriate resolution Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. Learn how to provide responsive images. Page has the HTML doctype Specifying a doctype prevents the browser from switching to quirks-mode. Learn more about the doctype declaration. 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 about declaring the character encoding. 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. Learn more about unload event listeners 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 about this errors in console diagnostic audit 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.

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. <u>Learn more about source maps</u>.

Page has valid source maps

NOT APPLICABLE (1) Hide

Fonts with font-display: optional are preloaded



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	
▲ Document does not have a meta description	^
Meta descriptions may be included in search results to condidescription.	sisely summarize page content. <u>Learn more about the meta</u>
Format your HTML in a way that enables crawlers to better unde	rstand your app's content.
CRAWLING AND INDEXING	
▲ Links are not crawlable	^
Search engines may use href attributes on links to crawl we to an appropriate destination, so more pages of the site can	rebsites. Ensure that the href attribute of anchor elements links be discovered. Learn how to make links crawlable
Uncrawlable Link	
a.text-light	
a.text-light	
a.text-light	
a.text-light	

	Uncrawlable Link	
To ap	ppear in search results, crawlers need access to your app.	
ADD	DITIONAL ITEMS TO MANUALLY CHECK (1)	Hide
0	Structured data is valid	^
	Run the <u>Structured Data Testing Tool</u> and the <u>Structured Data Linter</u> to validate structured data. <u>Learn more about Structured Data</u> .	
Run	these additional validators on your site to check additional SEO best practices.	
PAS	SSED AUDITS (8)	Hide
	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 about using the viewport meta tag. TBT	
	Document has a <title> element</td><td>^</td></tr><tr><td></td><td>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 about document titles.</td><td></td></tr><tr><td></td><td>Page has successful HTTP status code</td><td>^</td></tr><tr><td></td><td>Pages with unsuccessful HTTP status codes may not be indexed properly. <u>Learn more about HTTP status codes</u>.</td><td></td></tr><tr><td></td><td>Links have descriptive text</td><td>^</td></tr><tr><td></td><td>Descriptive link text helps search engines understand your content. <u>Learn how to make links more accessible</u>.</td><td></td></tr><tr><td></td><td>Page isn't blocked from indexing</td><td>^</td></tr><tr><td></td><td>Search engines are unable to include your pages in search results if they don't have permission to crawl them. <u>Learn morabout crawler directives</u>.</td><td><u>e</u></td></tr><tr><td></td><td>Image elements have [alt] attributes</td><td>^</td></tr><tr><td></td><td>Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty a attribute. Learn more about the alt attribute.</td><td>t</td></tr><tr><td></td><td>Document has a valid hreflang</td><td>^</td></tr></tbody></table></title>	

	Document avoids plugins	^
	Search engines can't index plugin content, and many devices restrict plugins or don't support them. <u>Learn more about avoiding plugins</u> .	
NOT	APPLICABLE (4)	Hide
0	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. Learn more about robots.txt.	
0	Document has a valid rel=canonical	^
	Canonical links suggest which URL to show in search results. Learn more about canonical links.	
0	Document uses legible font sizes	^
	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 >60% of page text ≥12px. Learn more about legible font sizes.	e to
0	Tap targets are sized appropriately	^
	Interactive elements like buttons and links should be large enough (48x48px), or have enough space around them, to be easy enough to tap without overlapping onto other elements. <u>Learn more about tap targets</u> .	

hreflang links tell search engines what version of a page they should list in search results for a given language or region.

Alongside <u>Chrome's updated Installability Criteria</u>, Lighthouse will be deprecating the PWA category in a future release. Please refer to the <u>updated PWA documentation</u> for future PWA testing.



PWA

These checks validate the aspects of a Progressive Web App. <u>Learn what</u> <u>makes a good Progressive Web App</u>.

INSTALLABLE

Learn more about hreflang.

♦ 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. Learn more about manifest installability requirements. Failure reason Page has no manifest <link> URL PWA OPTIMIZED 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. Learn more about splash screens. 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. Learn more about theming the address bar. 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. Learn how to size content for the viewport. 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 about using the viewport meta tag. (TBT) 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. Learn about maskable manifest icons. ADDITIONAL ITEMS TO MANUALLY CHECK (3) Hide Site works cross-browser To reach the most number of users, sites should work across every major browser. Learn about cross-browser compatibility. Page transitions don't feel like they block on the network

Transitions should feel snappy as you tap around, even on a slow network. This experience is key to a user's perception of performance. <u>Learn more about page transitions</u>.

^

Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on social media. <u>Learn more about providing deep links</u>.

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 Mar 27, 2024, 2:52

PM GMT

Initial page load

Emulated Desktop with

Lighthouse 11.5.0

Custom throttling

Single page session

Using Chromium 123.0.0.0 with

devtools

Generated by **Lighthouse** 11.5.0 | File an issue