

https://sonic-explorers-e821805686e9.herokuapp.com/signin



95

95

100



•

Performance

e Accessibility

Best Practices **SEO**

PWA



Performance

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



0-49

50-89

90-100



METRICS Expand view

First Contentful Paint

0.6 s

Largest Contentful Paint

1.8 s

Total Blocking Time

0 ms

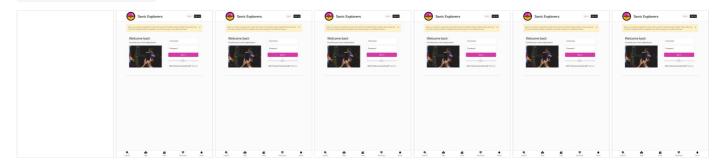
Cumulative Layout Shift

0.007

Speed Index

1.1 s

View Treemap



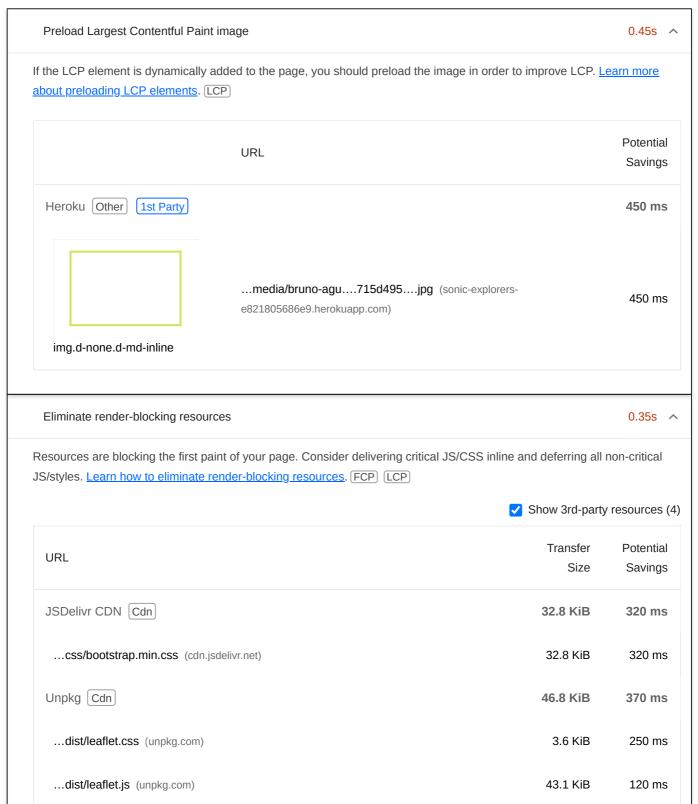
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Show audits relevant to: All FCP LCP TBT CLS

OPPORTUNITIES

Opportunity Estimated Savings

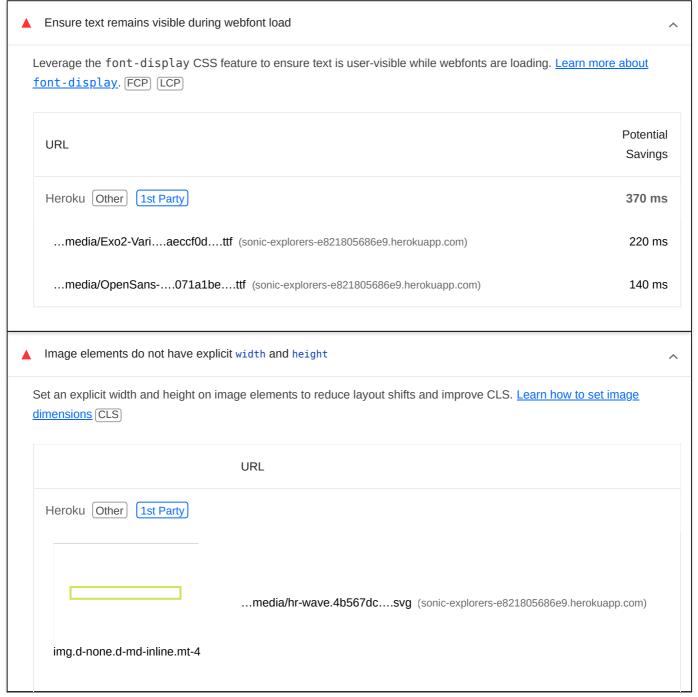


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URL	Transfer Size	Potential Savings
Heroku Other 1st Party	3.8 KiB	90 ms
css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com)	3.8 KiB	90 ms
FontAwesome CDN Cdn	4.2 KiB	250 ms
/1abfbda195.js (kit.fontawesome.com)	4.2 KiB	250 ms

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

DIAGNOSTICS



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▲ Serve static assets with an efficient cache policy — 7 resources found

A long cache lifetime can speed up repeat visits to your page. Learn more about efficient cache policies.

URL	Cache TTL	Transfer Size
Heroku Other 1st Party		833 KiB
media/OpenSans071a1bettf (sonic-explorers-e821805686e9.herokuapp.com)	None	338 KiB
js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com)	None	175 KiB
media/Exo2-Variaeccf0dttf (sonic-explorers-e821805686e9.herokuapp.com)	None	131 KiB
media/bruno-agu715d495jpg (sonic-explorers-e821805686e9.herokuapp.com)	None	128 KiB
media/logo.e3f00b3svg (sonic-explorers-e821805686e9.herokuapp.com)	None	56 KiB
css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com)	None	4 KiB
media/hr-wave.4b567dcsvg (sonic-explorers-e821805686e9.herokuapp.com)	None	1 KiB

O Avoid chaining critical requests — 6 chains found

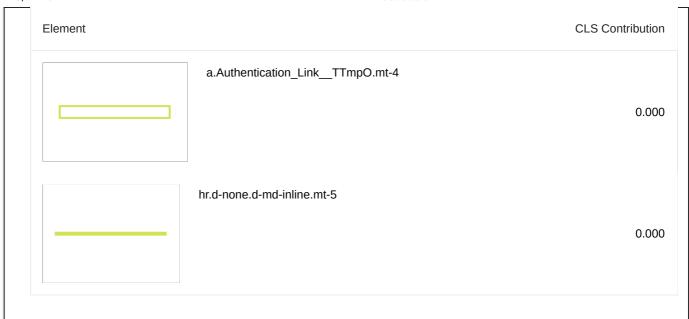
The Critical Request Chains below show you what resources are loaded with a high priority. Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. Learn how to avoid chaining critical requests. FCP LCP

Maximum critical path latency: 642.388 ms

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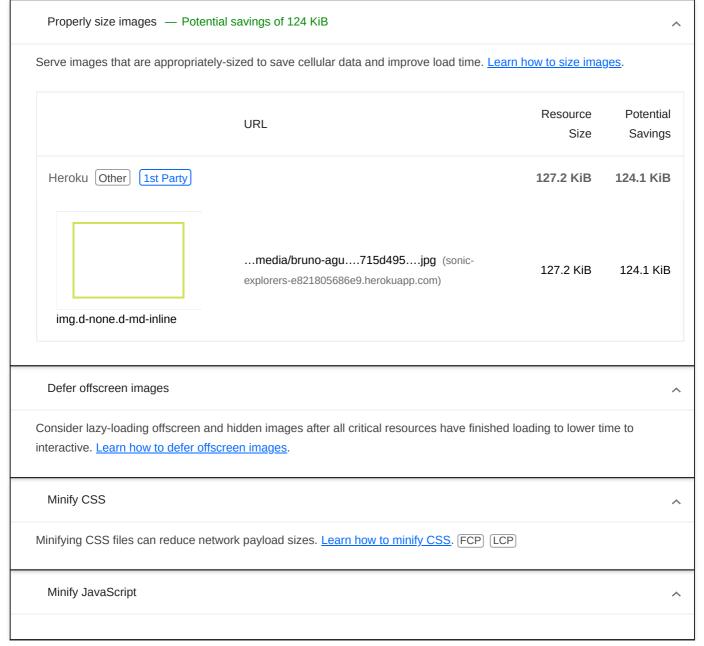
Initial Navigation /signin (sonic-explorers-e821805686e9.herokuapp.com) ...css/bootstrap.min.css (cdn.jsdelivr.net) - 53.164 ms, 32.76 KiB ...dist/leaflet.css (unpkg.com) - 48.821 ms, 3.61 KiB ...css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com) ...media/Exo2-Vari....aeccf0d...ttf (sonic-explorers-e821805686e9.herokuapp.com) - 223.092 ms, 130.85 KiB ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com) - 142.865 ms, 338.32 KiB /labfbda195.js (kit.fontawesome.com) - 53.082 ms, 4.22 KiB ...dist/leaflet.js (unpkg.com) - 56.903 ms, 43.14 KiB ○ Largest Contentful Paint element — 1,760 ms This is the largest contentful element painted within the viewport. Learn more about the Largest Contentful Paint element LCP Element img.d-none.d-md-inline Phase % of LCP **Timing TTFB** 12% 210 ms **Load Delay** 50% 870 ms Load Time 30% 520 ms 9% Render Delay 150 ms Avoid large layout shifts — 3 elements found These DOM elements contribute most to the CLS of the page. Learn how to improve CLS (CLS) **CLS** Contribution Element div.my-auto.py-2.p-md-4.p-lg-5.col-md-6 0.007

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

PASSED AUDITS (31)



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

Reduce unused CSS — Potential savings of 51 KiB

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. <u>Learn how to reduce unused CSS</u>. FCP (LCP)

✓ Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
JSDelivr CDN Cdn	32.8 KiB	30.7 KiB
css/bootstrap.min.css (cdn.jsdelivr.net)	32.8 KiB	30.7 KiB
Unattributable	20.3 KiB	20.1 KiB
<pre>/*! * Font Awesome Free 6.4.2 by @fontawesome - https://fontawesome.com * License - https://fonta</pre>	20.3 KiB	20.1 KiB

Reduce unused JavaScript — Potential savings of 150 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>. [LCP]

✓ Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
Heroku Other 1st Party	174.8 KiB	114.5 KiB
js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com)	174.8 KiB	114.5 KiB
/node_modules/react-dom/cjs/react-dom.production.min.js	38.0 KiB	13.6 KiB
/node_modules/leaflet/src/map/Map.js	6.2 KiB	5.6 KiB
/node_modules/wavesurfer.js/dist/renderer.js	3.0 KiB	2.8 KiB
/node_modules/leaflet/src/layer/tile/GridLayer.js	3.0 KiB	2.7 KiB
<pre>/node_modules/react-infinite-scroll- component/node_modules/tslib/tslib.es6.js</pre>	2.1 KiB	1.9 KiB
Unpkg Cdn	43.1 KiB	36.0 KiB
dist/leaflet.js (unpkg.com)	43.1 KiB	36.0 KiB
map/Map.js	6.1 KiB	5.5 KiB
layer/tile/GridLayer.js	3.0 KiB	2.7 KiB

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2:19 PM	about:blank		
URL		Transfer Size	Potentia Saving
layer/vector/Canvas.js		1.7 KiB	1.6 KiE
control/Control.Layers.j	S	1.6 KiB	1.4 KiE
layer/Tooltip.js		1.4 KiB	1.2 KiE
Efficiently encode images			
Optimized images load faster and co	onsume less cellular data. <u>Learn how to efficiently enco</u>	<u>de images</u> .	
Serve images in next-gen formats	— Potential savings of 75 KiB		
lmage formats like WebP and AVIF on an and less data consumption. <u>Learn manners are the second and less data consumption. It is a consumption and less data are the second are the </u>	often provide better compression than PNG or JPEG, whore about modern image formats.	hich means faster	downloads
	URL	Resource Size	Potentia Saving
Heroku Other 1st Party		127.2 KiB	74.9 KiE
img.d-none.d-md-inline	media/bruno-agu715d495jpg (sonic- explorers-e821805686e9.herokuapp.com)	127.2 KiB	74.9 Kil
Enable text compression — Pote Text-based resources should be servered about text compression. FCP	ved with compression (gzip, deflate or brotli) to minimize	e total network byte	es. <u>Learn</u>
URL		Transfer Size	Potentia Saving:
Heroku Other 1st Party		2.4 KiB	1.8 KiE
	ount (sonic-explorers-api-4c187c4cd99f.herokuapp.com)	2.4 KiB	1.8 KiE
Preconnect to required origins			

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Initial server response time was short — Root document took 40 ms Keep the server response time for the main document short because all other requests depend on it. Learn more about the Time to First Byte metric. FCP LCP URL Time Spent Heroku Other 1st Party 40 ms 40 ms /signin (sonic-explorers-e821805686e9.herokuapp.com) Avoid multiple page redirects Redirects introduce additional delays before the page can be loaded. Learn how to avoid page redirects. FCP [LCP] Preload key requests Consider using <link rel=preload> to prioritize fetching resources that are currently requested later in page load. Learn how to preload key requests. FCP LCP Use HTTP/2 — 9 requests not served via HTTP/2 HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn more about HTTP/2. **URL** Protocol Heroku Other 1st Party http/1.1 /signin (sonic-explorers-e821805686e9.herokuapp.com) ...js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com) http/1.1 http/1.1 ...css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com) ...media/logo.e3f00b3....svg (sonic-explorers-e821805686e9.herokuapp.com) http/1.1 $... media/bruno-agu....715d495....jpg \ \ (sonic-explorers-e821805686e9.herokuapp.com)$ http/1.1 ...media/hr-wave.4b567dc....svg (sonic-explorers-e821805686e9.herokuapp.com) http/1.1 http/1.1 ...media/Exo2-Vari....aeccf0d....ttf (sonic-explorers-e821805686e9.herokuapp.com) ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com) http/1.1

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URL Protocol http/1.1 /favicon.png (sonic-explorers-e821805686e9.herokuapp.com) 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 [LCP] Remove duplicate modules in JavaScript bundles Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity. [TBT] Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 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) Potential URL Savings Heroku Other 1st Party 0.0 KiB ...js/main.c74bf159.js (sonic-explorers-0.0 KiB e821805686e9.herokuapp.com) @babel/plugin-transformmain.c74bf159.js:2 classes Avoids enormous network payloads — Total size was 1,103 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn how to reduce payload sizes. LCP Show 3rd-party resources (5) Transfer URL Size 827.8 KiB Heroku Other 1st Party 338.3 KiB ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com)

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URL	Transfer Size
js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com)	174.8 KiB
media/Exo2-Variaeccf0dttf (sonic-explorers-e821805686e9.herokuapp.com)	130.8 KiB
media/bruno-agu715d495jpg (sonic-explorers-e821805686e9.herokuapp.com)	127.6 KiB
media/logo.e3f00b3svg (sonic-explorers-e821805686e9.herokuapp.com)	56.2 KiB
FontAwesome CDN Cdn	174.9 KiB
webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com)	147.1 KiB
css/free.min.css?token=1abfbda195 (ka-f.fontawesome.com)	23.1 KiB
css/free-v4-shims.min.css?token=1abfbda195 (ka-f.fontawesome.com)	4.6 KiB
Unpkg Cdn	43.1 KiB
dist/leaflet.js (unpkg.com)	43.1 KiB
JSDelivr CDN Cdn	32.8 KiB
css/bootstrap.min.css (cdn.jsdelivr.net)	32.8 KiB

Avoids an excessive DOM siz	e — 60 elements	^
A large DOM will increase memorated an excessive DOM size.	ory usage, cause longer <u>style calculations</u> , and produce costly <u>layout reflows</u> . <u>Let</u>	earn how to
Statistic	Element	Value
Total DOM Elements		60
Maximum DOM Depth	input#floatingInput.Authentication_Input_ _aRz0X.form-control	10
Maximum Child Elements	div.BottomNavBar_Containerd7HEB.containe r	5

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Statistic Element Value

User Timing marks and measures

Consider instrumenting your app with the User Timing API to measure your app's real-world performance during key user experiences. <u>Learn more about User Timing marks</u>.

JavaScript execution time — 0.1 s

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

URL	Total CPU Time	Script Evaluation	Script Parse
Heroku Other 1st Party	160 ms	66 ms	10 ms
js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com)	82 ms	62 ms	9 ms
/signin (sonic-explorers-e821805686e9.herokuapp.com)	77 ms	4 ms	1 ms
Unattributable	94 ms	6 ms	0 ms
Unattributable	94 ms	6 ms	0 ms

Minimizes main-thread work — 0.3 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	124 ms
Script Evaluation	92 ms
Style & Layout	46 ms
Script Parsing & Compilation	12 ms
Parse HTML & CSS	8 ms

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	Category		Time Spent
	Rendering		5 ms
	Minimize third-party usage — Third-party code blocked the main th	read for 0 ms	^
	Third-party code can significantly impact load performance. Limit the noad third-party code after your page has primarily finished loading. Le		
	Third-Party	Transfer Size	Main-Thread Blocking Time
	FontAwesome CDN Cdn	181 KiB	0 ms
	webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com)	147 KiB	0 ms
	css/free.min.css?token=1abfbda195 (ka-f.fontawesome.com)	23 KiB	0 ms
	Other resources	11 KiB	0 ms
	Unpkg Cdn	47 KiB	0 ms
	dist/leaflet.js (unpkg.com)	43 KiB	0 ms
	JSDelivr CDN Cdn	33 KiB	0 ms
	css/bootstrap.min.css (cdn.jsdelivr.net)	33 KiB	0 ms
0	Lazy load third-party resources with facades		^
	Some third-party embeds can be lazy loaded. Consider replacing them defer third-parties with a facade. TBT	ı with a facade until tl	ney are required. <u>Learn how to</u>
	Largest Contentful Paint image was not lazily loaded		^
	Above-the-fold images that are lazily loaded render later in the page lif	ecycle, which can de	lay the largest contentful paint.
	Element		
	img.d-none.d-md-inline		
	Uses passive listeners to improve scrolling performance		^

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Consider marking your touch and wheel event listeners as passive to improve your page's scroll performance. <u>Learn more about adopting passive event listeners</u>.

Avoids document.write()

For users on slow connections, external scripts dynamically injected via document.write() can delay page load by tens of seconds. Learn how to avoid document.write().

Avoid long main-thread tasks

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)

Avoid non-composited animations

Animations which are not composited can be janky and increase CLS. Learn how to avoid non-composited animations 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 <u>a 300 millisecond</u> <u>delay to user input</u>. <u>Learn more about using the viewport meta tag</u>. TBT

Page didn't prevent back/forward cache restoration

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>



Accessibility

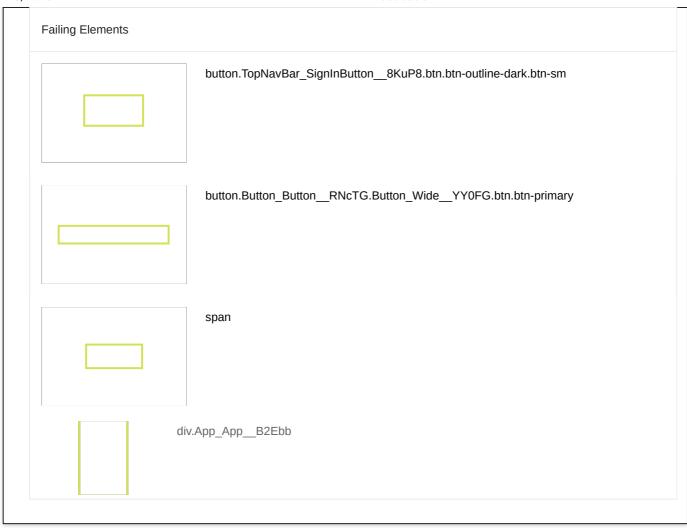
These checks highlight opportunities to improve the accessibility of your web app. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so manual testing is also encouraged.

CONTRAST

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

Low-contrast text is difficult or impossible for many users to read. Learn how to provide sufficient color contrast.

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These are opportunities to improve the legibility of your content.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Hide

O Interactive controls are keyboard focusable

Custom interactive controls are keyboard focusable and display a focus indicator. Learn how to make custom controls focusable.

O Interactive elements indicate their purpose and state

A Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. Learn how to decorate interactive elements with affordance hints.

O The page has a logical tab order

A Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. Learn more about logical tab ordering.

O Visual order on the page follows DOM order

A DOM order matches the visual order, improving navigation for assistive technology. Learn more about DOM and visual ordering.

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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. <u>Learn how to avoid focus tra</u>	<u>ips</u> .
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. <u>Learn how to direct focus to new content</u> .	
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 about landmark elements.</nav></main>	
Offscreen content is hidden from assistive technology	^
Offscreen content is hidden with display: none or aria-hidden=true. <u>Learn how to properly hide offscreen content</u> .	
Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more about custom controls and labels</u> .	
Custom controls have ARIA roles	^
Custom interactive controls have appropriate ARIA roles. <u>Learn how to add roles to custom controls</u> .	

These items address areas which an automated testing tool cannot cover. Learn more in our guide on <u>conducting an accessibility</u> <u>review</u>.

PASSED AUDITS (17) 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 <body>. Learn how aria-hidden affects the document body.

[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

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and required attributes. [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 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. [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. <a 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

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Specifying a valid BCP 47 language helps screen readers announce text properly. Learn how to use the lang attribute. Form elements have associated labels Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more about form element labels. 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. Learn how to make links accessible. 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 navigate and understand when using assistive technologies. Learn more about heading order. 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 are misspelled, not existing ARIA role values, or abstract roles, then the purpose of the element will not be communicated to users 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 the text adjacent to the link or image is potentially confusing for screen reader users, because the text will be read twice. Learn more about the alt attribute.

NOT APPLICABLE (41)
Hide

O [accesskey] values are unique

Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. <u>Learn more about access keys</u>.

O button, link, and menuitem elements 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>.

Elements with role="dialog" or role="alertdialog" have accessible names.

ARIA dialog elements without accessible names may prevent screen readers users from discerning the purpose of these elements. Learn how to make ARIA dialog elements more accessible.

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O [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.	
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 it unus for users who rely on screen readers. <u>Learn more about input field labels</u> .	sable
ARIA meter elements have accessible names	^
When a meter 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 meter elements</u> .	
ARIA progressbar elements have accessible names	^
When a progressbar element doesn't have an accessible name, screen readers announce it with a generic name, n it unusable for users who rely on screen readers. Learn how to label progressbar elements.	naking
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 a roles and required children elements</u> .	<u>about</u>
O [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 functi <u>Learn more about ARIA roles and required parent element</u> .	ions.
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 unus for users who rely on screen readers. <u>Learn more about toggle fields</u> .	sable
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. Learn how to name tooltip elements.	

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 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. <u>Learn more about labeling treeitem elements</u> .	ng 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 bypass</u> .	<u>pass</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 hostructure definition lists correctly</u>.</td><td>ow to</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 prannounce them. Learn how to structure definition lists correctly.</td><td>operly</td></tr><tr><td>O [id] attributes on active, focusable elements are unique</td><td>^</td></tr><tr><td>All focusable elements must have a unique id to ensure that they're visible to assistive technologies. Learn how to fix duplicate ids.</td><td></td></tr><tr><td>O ARIA IDs are unique</td><td>^</td></tr><tr><td>The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>L</u> how to fix duplicate ARIA IDs.</td><td><u>earn</u></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 the first, the last, or all of the labels. <u>Learn how to use form labels</u>.</td><td>either</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><tr><td>If the webpage does not specify a consistent language, then the screen reader might not announce the page's text cor <u>Learn more about the lang attribute</u>.</td><td>rectly.</td></tr><tr><td>O Input buttons have discernible text.</td><td>^</td></tr></tbody></table></script></dd></dt></dl>	

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Adding discernable and accessible text to input buttons may help screen reader users understand the purpose of the input button. Learn more about input buttons.	out
<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 understan the purpose of the button. Learn about input image alt text.	d
Elements with visible text labels have matching accessible names.	^
Visible text labels that do not match the accessible name can result in a confusing experience for screen reader users. <u>Learn more about accessible names</u> .	
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 experience for users with low vision. Learn how to make links distinguishable.	or
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. <u>Learn about proper list structure</u>.</td><td><u>more</u></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>erly.</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 comeaning to users. Learn more about alt text for object elements.</td><td>nvey</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>2</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. <u>Learn more about skip links</u>.</td><td></td></tr></tbody></table></script>	

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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 frustrating experiences for users who rely on assistive technologies. <u>Learn more about the tabindex attribute</u> .	
 Tables have different content in the summary attribute and <caption>.</caption> 	^
The summary attribute should describe the table structure, while <caption> should have the onscreen title. Accurate table mark-up helps users of screen readers. Learn more about summary and caption.</caption>	è
Tables use <caption> instead of cells with the [colspan] attribute to indicate a caption.</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. <u>Learn more about captions</u> .	I
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.	<u>e</u>
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 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. <u>Learn more about table headers</u> .	
O [lang] attributes have a valid value	^
Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen reader. <u>Learn how to use the lang attribute</u> .	
<pre> <video> elements contain a <track/> element with [kind="captions"] </video></pre>	^
When a video provides a caption it is easier for deaf and hearing impaired users to access its information. <u>Learn more abouvideo captions</u> .	<u>ıt</u>
O All heading elements contain content.	~
A heading with no content or inaccessible text prevent screen reader users from accessing information on the page's	

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structure. Learn more about headings.

O Identical links have the same purpose.

Links with the same destination should have the same description, to help users understand the link's purpose and decide whether to follow it. <u>Learn more about identical links</u>.



Best Practices

GENERAL

	about this errors in console diagnostic audit
Source	Description
Heroku Other 1st Party	
refresh/:1	Failed to load resource: the server responded with a status of 401 (Unauthorized)
user/:1	Failed to load resource: the server responded with a status of 401 (Unauthorized)
refresh/:1	Failed to load resource: the server responded with a status of 401 (Unauthorized)
user/:1	Failed to load resource: the server responded with a status of 401 (Unauthorized)
Detected JavaScript	libraries
ll front-end JavaScript	libraries detected on the page. <u>Learn more about this JavaScript library detection diagnostic aud</u>

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Name	Version
Create React App	

TRUST AND SAFETY

Ensure CSP is effective against XSS attacks		^
A strong Content Security Policy (CSP) significantly real CSP to prevent XSS	reduces the risk of cross-site scripting (X	SS) attacks. <u>Learn how to use</u>
Description	Directive	Severity
No CSP found in enforcement mode		High

PASSED AUDITS (12) 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. Avoids deprecated APIs

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

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

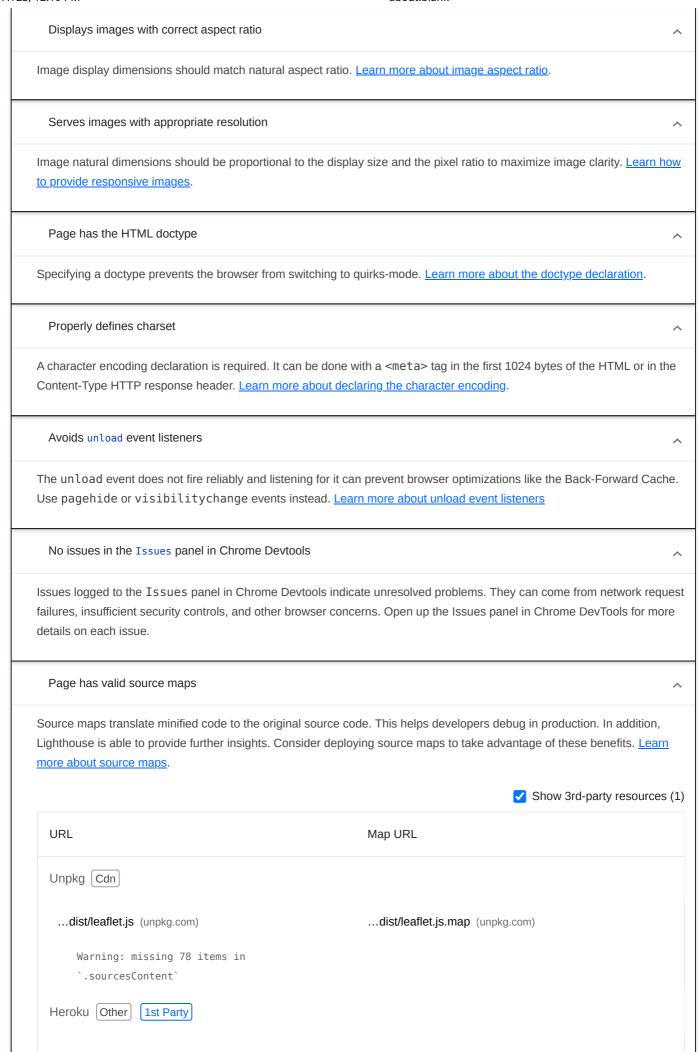
Allows users to paste into input fields

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.

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URL	Map URL
js/main.c74bf159.js (sonic-explorers-	js/main.c74bf159.js.map (sonic-explorers-
e821805686e9.herokuapp.com)	e821805686e9.herokuapp.com)

NOT APPLICABLE (1) Hide

O Fonts with font-display: optional are preloaded

Preload optional fonts so first-time visitors may use them. Learn more about preloading fonts



These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on Core Web Vitals. Learn more about Google Search Essentials.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

Structured data is valid

Run the <u>Structured Data Testing Tool</u> and the <u>Structured Data Linter</u> to validate structured data. <u>Learn more about</u> Structured Data.

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

PASSED AUDITS (11) 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 <u>a 300 millisecond</u> <u>delay to user input</u>. <u>Learn more about using the viewport meta tag</u>. TBT

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. <u>Learn more about document titles</u>.

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Document has a meta description	^
Meta descriptions may be included in search results to concisely summarize page content. Learn more about the meta description.	<u>a</u>
Page has successful HTTP status code	^
Pages with unsuccessful HTTP status codes may not be indexed properly. <u>Learn more about HTTP status codes</u> .	
Links have descriptive text	^
Descriptive link text helps search engines understand your content. <u>Learn how to make links more accessible</u> .	
Links are crawlable	^
Search engines may use href attributes on links to crawl websites. Ensure that the href attribute of anchor elements to an appropriate destination, so more pages of the site can be discovered. Learn how to make links crawlable	s links
Page isn't blocked from indexing	^
Search engines are unable to include your pages in search results if they don't have permission to crawl them. <u>Learn rabout crawler directives</u> .	<u>more</u>
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 o indexed. Learn more about robots.txt.	r
Image elements have [alt] attributes	^
Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empt attribute. Learn more about the alt attribute.	ty alt
Document has a valid hreflang	^
hreflang links tell search engines what version of a page they should list in search results for a given language or region Learn more about hreflang.	on.
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 (3)

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O Document has a valid rel=canonical

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

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 to have >60% of page text ≥12px. Learn more about legible font sizes.

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. Learn more about tap targets.



PWA

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

INSTALLABLE

▲ Web app manifest or service worker do not meet the installability requirements — 2 reasons

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

Manifest does not contain a suitable icon - PNG, SVG or WebP format of at least 144 px is required, the sizes attribute must be set, and the purpose attribute, if set, must include "any".

No supplied icon is at least 144 px square in PNG, SVG or WebP format, with the purpose attribute unset or set to "any"

PWA OPTIMIZED

Is not configured for a custom splash screen Failures: Manifest does not have a PNG icon of at least 512px.

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7/23, 12:19 PM	about:blank	
A themed splash more about spla	screen ensures a high-quality experience when users launch your app from their homescreens. <u>Learn</u> sh screens.	
Sets a theme	color for the address bar.	^
The browser add	dress bar can be themed to match your site. <u>Learn more about theming the address bar</u> .	
O Content is size	ed correctly for the viewport	^
1	our app's content doesn't match the width of the viewport, your app might not be optimized for mobile now to size content for the viewport.	
Has a <meta r<="" td=""/> <td>name="viewport"> tag with width Or initial-scale</td> <td>^</td>	name="viewport"> tag with width Or initial-scale	^
	="viewport"> not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond</u> out. <u>Learn more about using the viewport meta tag</u> . <u>TBT</u>	<u>[</u>
▲ Manifest does	n't have a maskable icon	^
1	ensures that the image fills the entire shape without being letterboxed when installing the app on a device skable manifest icons.	ce.
ADDITIONAL ITEM	IS TO MANUALLY CHECK (3)	Hide
O Site works cro	ss-browser	^
To reach the mo	st number of users, sites should work across every major browser. <u>Learn about cross-browser compatibi</u>	<u>lity</u> .
O Page transitio	ns don't feel like they block on the network	^
	ald feel snappy as you tap around, even on a slow network. This experience is key to a user's perception around page transitions.	of

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

O Each page has a URL

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

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Captured at Nov 7, 2023, 12:19

PM GMT+1 Initial page load Emulated Desktop with Lighthouse 11.1.0 Custom throttling Single page load

Using Chromium 119.0.0.0 with

devtools

Generated by **Lighthouse** 11.1.0 | File an issue

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