











Performance

Accessibility

Best Practices

SEO

PWA



Performance

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

▲ 0-49

50-89

90-100



METRICS Expand view

First Contentful Paint

 $2.0 \, s$

Speed Index

 $2.0 \, s$

Largest Contentful Paint

2.6 s

Time to Interactive

2.1 s

Total Blocking Time

0 ms

Cumulative Layout Shift

0

View Original Trace

View Treemap





















Show audits relevant to: All FCP TBT LCP CLS

OPPORTUNITIES

Opportunity **Estimated Savings** Reduce unused CSS 0.6 s ^

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

✓ Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
css/bootstrap.min.css (cdn.jsdelivr.net)	27.1 KiB	26.1 KiB
<pre>/*! * Font Awesome Free 6.2.0 by @fontawesome - https://fontawesome.com * License - https://fontaw</pre>	20.2 KiB	20.0 KiB

Serve images in next-gen formats

0.6 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.container-fluid.hero- container.home-container	images/christian-holzinger- unsplash.jpg (janet-dev.github.io)	175.6 KiB	97.4 KiB

Eliminate render-blocking resources

0.21 s ^

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

URL	Transfer Size	Potential Savings
css/bootstrap.min.css (cdn.jsdelivr.net)	27.1 KiB	1,220 ms
/7c6e646adf.js (kit.fontawesome.com)	4.0 KiB	800 ms

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

^

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

URL	Cache TTL	Transfer Size
images/christian-holzinger-unsplash.jpg (janet-dev.github.io)	10 m	176 KiB
css/style.css (janet-dev.github.io)	10 m	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. <u>Learn more</u>. (FCP) (LCP)

Maximum critical path latency: 450 ms

Initial Navigation

/ci-milestone-project-1/index.html (janet-dev.github.io)

- ...css/bootstrap.min.css (cdn.jsdelivr.net) 30 ms, 27.08 KiB
- ...css/style.css (janet-dev.github.io)

/css?family=Roboto:100,200,300,400,500,600,700 (fonts.googleapis.com) - 20 ms, 0.98 KiB

...webfonts/free-fa-brands-400.woff2 (ka-f.fontawesome.com) - 140 ms, 105.71 KiB

/7c6e646adf.js (kit.fontawesome.com) - 80 ms, 3.99 KiB

- ...umd/popper.min.js (cdn.jsdelivr.net) 70 ms, 7.56 KiB
- ...js/bootstrap.min.js (cdn.jsdelivr.net) 60 ms, 16.15 KiB
- Keep request counts low and transfer sizes small 15 requests 371 KiB

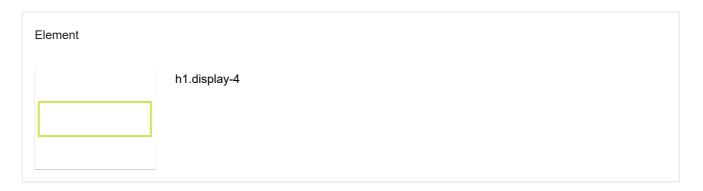
To set budgets for the quantity and size of page resources, add a budget.json file. Learn more.

Resource Type	Requests	Transfer Size
Total	15	371.0 KiB
Image	1	175.8 KiB
Font	1	105.7 KiB
Stylesheet	3	29.5 KiB
Other	4	29.3 KiB

Resource Type	Requests	Transfer Size
Script	4	27.7 KiB
Document	2	3.0 KiB
Media	0	0.0 KiB
Third-party	12	191.8 KiB

○ Largest Contentful Paint element — 1 element found

This is the largest contentful element painted within the viewport. Learn More (LCP)



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. Learn more (TBT)

✓ Show 3rd-party resources (1)

URL	Start Time	Duration
/ci-milestone-project-1/index.html (janet-dev.github.io)	851 ms	477 ms
chrome-extension://aeblfdkhhhdcdjpifhhbdiojplfjncoa/inline/injected.js	1,359 ms	161 ms
/ci-milestone-project-1/index.html (janet-dev.github.io)	762 ms	89 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	2,128 ms	51 ms

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

PASSED AUDITS (32)

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. <u>Learn more</u> .
Minify CSS
Minifying CSS files can reduce network payload sizes. <u>Learn more</u> . FCP LCP
Minify JavaScript
Minifying JavaScript files can reduce payload sizes and script parse time. <u>Learn more</u> . FCP <u>LCP</u>
Reduce unused JavaScript
Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. Learn more. LCP
Efficiently encode images
Optimized images load faster and consume less cellular data. <u>Learn more</u> .
Enable text compression
Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. <u>Learn</u> more. FCP LCP
Preconnect to required origins
Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connections to important third-party origins. <u>Learn more</u> . FCP (LCP)
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 on it. <u>Learn more</u> . FCP
URL Time Spent
/ci-milestone-project-1/index.html (janet-dev.github.io) 10 ms

Avoid multiple page redirects

Redirects introduce additional delays before the page can be loaded. Learn more. FCP [LCP] Preload key requests Consider using `<link rel=preload>` to prioritize fetching resources that are currently requested later in page load. Learn more. (FCP) (LCP) Use HTTP/2 HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn more. 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 [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 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) Preload Largest Contentful Paint image Preload the image used by the LCP element in order to improve your LCP time. Learn more. [LCP] Avoids enormous network payloads — Total size was 371 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn more. [LCP] Show 3rd-party resources (7) Transfer **URL** Size 175.8 KiB ...images/christian-holzinger-unsplash.jpg (janet-dev.github.io) ...webfonts/free-fa-brands-400.woff2 (ka-f.fontawesome.com) 105.7 KiB

URL	Transfer Size
css/bootstrap.min.css (cdn.jsdelivr.net)	27.1 KiB
css/free.min.css?token=7c6e646adf (ka-f.fontawesome.com)	22.9 KiB
js/bootstrap.min.js (cdn.jsdelivr.net)	16.2 KiB
umd/popper.min.js (cdn.jsdelivr.net)	7.6 KiB
css/free-v4-shims.min.css?token=7c6e646adf (ka-f.fontawesome.com)	4.6 KiB
/7c6e646adf.js (kit.fontawesome.com)	4.0 KiB
/ci-milestone-project-1/index.html (janet-dev.github.io)	2.0 KiB
css/style.css (janet-dev.github.io)	1.5 KiB

Avoids an excessive DOM size — 48 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>. <u>(TBT)</u>

Statistic	Element	Value
Total DOM Elements		48
Maximum DOM Depth	a.nav-link.active	7
Maximum Child Elements	section.text-white.text-center	10

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</u>.

JavaScript execution time — 0.7 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)

URL	Total CPU Time	Script Evaluation	Script Parse	
/ci-milestone-project-1/index.html (janet-dev.github.io)	732 ms	140 ms	352 ms	
Unattributable	301 ms	22 ms	0 ms	
<pre>chrome- extension://aeblfdkhhhdcdjpifhhbdiojplfjncoa/inline/injected.js</pre>	164 ms	51 ms	96 ms	
/7c6e646adf.js (kit.fontawesome.com)	76 ms	57 ms	2 ms	
css/bootstrap.min.css (cdn.jsdelivr.net)	51 ms	0 ms	0 ms	

Minimizes main-thread work — 1.5 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 Parsing & Compilation	485 ms
Other	438 ms
Script Evaluation	344 ms
Style & Layout	91 ms
Parse HTML & CSS	78 ms
Rendering	19 ms
Garbage Collection	17 ms

All text remains visible during webfont loads

Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. Learn more. FCP [LCP]

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. Learn more. (TBT)

Third-Party	Transfer Size	Main-Thread Blocking Time
FontAwesome CDN	139 KiB	0 ms
webfonts/free-fa-brands-400.woff2 (ka-f.fontawesome.com)	106 KiB	0 ms
css/free.min.css?token=7c6e646adf (ka-f.fontawesome.com)	23 KiB	0 ms
Other resources	10 KiB	0 ms
JSDelivr CDN	51 KiB	0 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	27 KiB	0 ms
js/bootstrap.min.js (cdn.jsdelivr.net)	16 KiB	0 ms
umd/popper.min.js (cdn.jsdelivr.net)	8 KiB	0 ms
Google Fonts	1 KiB	0 ms

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. <u>Learn more</u>. <u>TBT</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. <u>Learn more</u>.

Avoid large layout shifts

These DOM elements contribute most to the CLS of the page. [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</u> <u>more</u>.

Avoids document.write()

For users on slow connections, external scripts dynamically injected via `document.write()` can delay page load by tens of seconds. <u>Learn more</u>.

Avoid non-composited animations

Animations which are not composited can be janky and increase CLS. <u>Learn more</u> <u>CLS</u>

Image elements have explicit width and height	^
Set an explicit width and height on image elements to reduce layout shifts and improve CLS. <u>Learn more</u> <u>CLS</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</u> to user input. <u>Learn more</u> . (TBT)	<u>d delay</u>
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.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Hide

The page has a logical tab order	^
Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. Learn more.	
Interactive controls are keyboard focusable	^
Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn more</u> .	
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. <u>Learn more</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 more</u> .	
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.	
O Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
O Custom controls have ARIA roles	^
Custom interactive controls have appropriate ARIA roles. <u>Learn more</u> .	
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.	
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 technolog Learn more.</nav></main>	gy.
These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibing the series.	<u>lity</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 more. [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. [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. ARIA IDs are unique The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. 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 Focusable descendents within an `[aria-hidden="true"]` element prevent those interactive elements from being available to users of assistive technologies like screen readers. Learn more. 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. Background and foreground colors have a sufficient contrast ratio Low-contrast text is difficult or impossible for many users to read. Learn more. 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. <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. <html> element has a valid value for its [lang] attribute Specifying a valid BCP 47 language helps screen readers announce text properly. Learn more.

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 more. Lists contain only <1i>elements and script supporting elements (<script) (<1i="" <template).="" a="" aids="" and="" announcing="" ensuring="" have="" items="" learn="" list="" lists.="" more.="" of="" output.="" proper="" reader="" readers="" screen="" specific="" structure="" way="">) are contained within <10 or <10 parent elements Screen readers require list items (<10) to be contained within a parent ' ' or '<0 > to be announced properly. Learn more. 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. NOT APPLICABLE (27) [accesskey] values are unique Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more. button, 1ink, and menuters 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. Learn more.</script)>		Links have a discernible name	
Lists contain only <11> elements and script supporting elements (<script) (<11="" <template)).="" a="" aids="" and="" announcing="" ensuring="" have="" items="" learn="" list="" lists.="" more.="" of="" output.="" proper="" reader="" readers="" screen="" specific="" structure="" way="">) are contained within <u1> or <01> parent elements Screen readers require list items ('<10>') to be contained within a parent '<u1> or '<01> to be announced properly. Learn more. 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. NOT APPLICABLE (27) Idio [accesskey] values are unique Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more. O button, 1ink, and menutree elements have accessible names All hiput fields have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn more.</u1></u1></script)>			^
Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. Learn more. List items (<11>) are contained within <u1> or <01> parent elements Screen readers require list items ('<1i>') to be contained within a parent '<u1> 'or '<01> 'to be announced properly. Learn more. 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. NOT APPLICABLE (27) [accesskey] values are unique Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more. button, link, and menuitem elements have accessible names All input fields have accessible names</u1></u1>			
List items (<13>) are contained within <u1> or <o1> parent elements Screen readers require list items ('<ii>') to be contained within a parent '<ui>' or '<oi>' to be announced properly. Learn more. 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. NOT APPLICABLE (27) Hid Caccesskey] values are unique Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more. Obutton, 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. Learn more.</oi></ui></ii></o1></u1>		Lists contain only <1i> elements and script supporting elements (<script> and <template>).</td><td>^</td></tr><tr><td>Screen readers require list items ('< i>') to be contained within a parent '<u >' or '<o >' to be announced properly. Learn more. 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. NOT APPLICABLE (27) Hid Caccesskey] values are unique Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more. Obutton, 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. 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Learn more.</td><td>^ e</td></tr></tbody></table></script>	

O ARIA progressbar elements have accessible names

When a `progressbar` element doesn't have an accessible name, screen readers announce it with a generic name, make it unusable for users who rely on screen readers. <u>Learn more</u> .	ding
O [role]s have all required [aria-*] attributes	^
Some ARIA roles have required attributes that describe the state of the element to screen readers. <u>Learn more</u> .	
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. Learn more.	
[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.	ns.
O [role] values are valid	^
ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more.	
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 unusation for users who rely on screen readers. <u>Learn more</u> .	able
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 unusab for users who rely on screen readers. <u>Learn more</u> .	ole
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 unusab for users who rely on screen readers. <u>Learn more</u> .	ole
<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. Learn mo</td><td><u>ore</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 properly announce them. Learn more.</td><td></td></tr><tr><td>Cid1 attributes on active focusable elements are unique</td><td></td></tr></tbody></table></script></dd></dt></dl>	

All focusable elements must have a unique `id` to ensure that they're visible to assistive technologies. Learn more.	
No form fields have multiple labels	^
Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either the first, the last, or all of the labels. Learn more.	
<frame/> Or <iframe> elements have a title</iframe>	^
Screen reader users rely on frame titles to describe the contents of frames. <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 a attribute. <u>Learn more</u> .	alt
<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 the purpose of the button. <u>Learn more</u> .	
Form elements have associated labels	^
Labels ensure that form controls are announced properly by assistive technologies, like screen readers. <u>Learn more</u> .	
The document does not use <meta http-equiv="refresh"/>	^
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> .	
O <object> elements have alternate text</object>	^
Screen readers cannot translate non-text content. Adding alternate text to ` <object>` elements helps screen readers convened meaning to users. Learn more.</object>	vey
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</u> .	
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.	

[10] attributes on active, recusable elements are unique



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

PASSED AUDITS (13)

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. Learn more. 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. 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. Learn more. 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. Learn more. Serves images with appropriate resolution Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. Learn more. Page has the HTML doctype Specifying a doctype prevents the browser from switching to quirks-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. <u>Learn more</u>.

URL Map URL

...js/bootstrap.min.js (cdn.jsdelivr.net) ...js/bootstrap.min.js.map (cdn.jsdelivr.net)

...umd/popper.min.js (cdn.jsdelivr.net) ...umd/popper.min.js.map (cdn.jsdelivr.net)

NOT APPLICABLE (2)

Fonts with font-display: optional are preloaded

Preload `optional` fonts so first-time visitors may use them. <u>Learn more</u>

Detected JavaScript libraries

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



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.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

 \wedge

Structured data is valid

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 30 to user input</u> . <u>Learn more</u> . <u>TBT</u>	00 millisecond delay
Document has a <title> element</td><td>^</td></tr><tr><td>The title gives screen reader users an overview of the page, and search engine users rely on it heavily to page is relevant to their search. <u>Learn more</u>.</td><td>o determine if a</td></tr><tr><td>Document has a meta description</td><td>^</td></tr><tr><td>Meta descriptions may be included in search results to concisely summarize page content. <u>Learn more</u>.</td><td></td></tr><tr><td>Page has successful HTTP status code</td><td>^</td></tr><tr><td>Pages with unsuccessful HTTP status codes may not be indexed properly. <u>Learn more</u>.</td><td></td></tr><tr><td>Links have descriptive text</td><td>^</td></tr><tr><td>Descriptive link text helps search engines understand your content. <u>Learn more</u>.</td><td></td></tr><tr><td>Links are crawlable</td><td>^</td></tr><tr><td>Search engines may use `href` attributes on links to crawl websites. Ensure that the `href` attribute of ar to an appropriate destination, so more pages of the site can be discovered. <u>Learn More</u></td><td>nchor elements links</td></tr><tr><td>Page isn't blocked from indexing</td><td>^</td></tr><tr><td>Search engines are unable to include your pages in search results if they don't have permission to crawle</td><td>them. <u>Learn more</u>.</td></tr><tr><td>Document has a valid hreflang</td><td>^</td></tr><tr><td>hreflang links tell search engines what version of a page they should list in search results for a given lan Learn more.</td><td>guage or region.</td></tr><tr><td>Document uses legible font sizes — 100% legible text</td><td>^</td></tr><tr><td></td><td></td></tr></tbody></table></title>	

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. <u>Learn more</u>.

Legible text	100.00%	≥ 12px
Document avoids plugins		^
Search engines can't index plugin content, and m	any devices restrict plugins or don't su	upport them. <u>Learn more</u> .
Tap targets are sized appropriately — 100% a	ppropriately sized tap targets	^
Interactive elements like buttons and links should easy enough to tap without overlapping onto other		e enough space around them, to be
OT APPLICABLE (3)		Hid
o robots.txt is valid		^
If your robots.txt file is malformed, crawlers may rindexed. <u>Learn more</u> .	not be able to understand how you wal	nt your website to be crawled or
Image elements have [alt] attributes		^
Informative elements should aim for short, descripattribute. <u>Learn more</u> .	ptive alternate text. Decorative elemen	nts can be ignored with an empty alt
		^
 Document has a valid rel=canonical 		

% of Page Text

Font Size



PWA

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

INSTALLABLE

Source

Selector

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.

Failure reason

Page has no manifest <link> URL

PWA OPTIMIZED

▲ 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, add to homescreen, and push notifications. <u>Learn more</u>.

▲ 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</u> <u>more</u>.

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.

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 delay</u> to user input. <u>Learn more</u>. (TBT)

▲ 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. <u>Learn More</u>.

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. <u>Learn more</u>.

ADDITIONAL ITEMS TO MANUALLY CHECK (3)	Hide
O Site works cross-browser	^
To reach the most number of users, sites should work across every major browser. <u>Learn more</u> .	
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 performance. <u>Learn more</u> .	ı of
O Each page has a URL	^
Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on 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 affe	ect

Captured at Oct 5, 2022, 6:30 PM GMT+1 Initial page load

your score but it's important that you verify them manually.

Emulated Moto G4 with Lighthouse 9.6.2 Slow 4G throttling Single page load

Using Chromium 106.0.0.0 with devtools

Generated by Lighthouse 9.6.2 | File an issue