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Performance

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

 $2.0 \, s$

Speed Index

 $2.0 \, s$

Largest Contentful Paint

3.8 s

Time to Interactive

 $2.0 \, s$

Total Blocking Time

0 ms

Cumulative Layout Shift

0

View Original Trace

View Treemap



















Show audits relevant to: All FCP TBT LCP CLS

Opportunity Estimated Savings

 \blacktriangle

Eliminate render-blocking resources

0.82 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	1,090 ms
/7c6e646adf.js (kit.fontawesome.com)	4.0 KiB	780 ms

Reduce unused CSS 0.15 s ^

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

✓ Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
css/bootstrap.min.css (cdn.jsdelivr.net)	27.1 KiB	25.7 KiB
<pre>/*! * Font Awesome Free 6.2.0 by @fontawesome - https://fontawesome.com * License - https://fontaw</pre>	20.2 KiB	20.0 KiB

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

DIAGNOSTICS

▲ 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. Learn more CLS

Show 3rd-party resources (1)

	URL
img.card- img-top	img/logo.png?raw=true (github.com)
img.card- img-top	images/black-codher-logo1.jpg (janet-dev.github.io)
img.card- img-top	images/black-codher-logo1.jpg (janet-dev.github.io)
img.card- img-top	images/black-codher-logo1.jpg (janet-dev.github.io)

▲ Serve static assets with an efficient cache policy — 4 resources found

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

✓ Show 3rd-party resources (1)

URL	Cache TTL	Transfer Size
img/logo.png (raw.githubusercontent.com)	5 m	18 KiB
images/christian-holzinger-unsplash.webp (janet-dev.github.io)	10 m	111 KiB
images/black-codher-logo1.jpg (janet-dev.github.io)	10 m	12 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. Learn more. [FCP] [LCP]

Maximum critical path latency: 510 ms

Initial Navigation

/ci-milestone-project-1/courses.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=... (fonts.googleapis.com) - 30 ms, 1.52 KiB

...webfonts/free-fa-brands-400.woff2 (ka-f.fontawesome.com) - 160 ms, 105.72 KiB

/7c6e646adf.js (kit.fontawesome.com) - 40 ms, 4.00 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
- O Keep request counts low and transfer sizes small 19 requests 341 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	19	341.0 KiB
Image	3	140.8 KiB
Font	1	105.7 KiB
Other	6	34.3 KiB
Stylesheet	3	29.5 KiB
Script	4	27.7 KiB
Document	2	2.9 KiB
Media	0	0.0 KiB
Third-party	15	215.2 KiB

O Largest Contentful Paint element — 1 element found

This is the largest contentful element painted within the viewport. Learn More [LCP]

Element

Element		
div.container-fluid.hero-container.courses-container		
 Avoid long main-thread tasks — 3 long tasks found 		
Avoid long main-thread tasks — 3 long tasks found		
Lists the longest tasks on the main thread, useful for identifying worst contributors to	input delay. <u>Learn more</u>	TBT
URL	Start Time	Duration
	Time	
/ci-milestone-project-1/courses.html (janet-dev.github.io)	957 ms	158 ms
chrome-extension://aeblfdkhhhdcdjpifhhbdiojplfjncoa/inline/injected.js	1,157 ms	119 ms
/ci-milestone-project-1/courses.html (janet-dev.github.io)	881 ms	76 ms
ore information about the performance of your application. These numbers don't <u>directly</u>	<u>/ affect</u> the Performance	score.
SSED AUDITS (32)		ı
Properly size images		
Serve images that are appropriately-sized to save cellular data and improve load time	e. <u>Learn more</u> .	
Defer offscreen images		
Consider lazy-loading offscreen and hidden images after all critical resources have finteractive. <u>Learn more</u> .	inished loading to lower t	ime to
Minify CSS		

Minify JavaScript

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

Minifying CSS files can reduce network payload sizes. $\underline{\text{Learn more}}. \ \overline{\text{FCP}} \ \ \underline{\text{LCP}}$

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consultativity. Learn more. (LCP)	med by network
Efficiently encode images	^
Optimized images load faster and consume less cellular data. <u>Learn more</u> .	
Serve images in next-gen formats	^
Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which mea and less data consumption. <u>Learn more</u> .	ns faster downloads
Enable text compression	^
Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total nemore. FCP LCP	twork bytes. <u>Learn</u>
Preconnect to required origins	^
Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connections to impo	rtant third-party origins.
Initial server response time was short — Root document took 130 ms	^
Keep the server response time for the main document short because all other requests depend on it. [LCP]	Learn more. (FCP)
URL	Time Spent
/ci-milestone-project-1/courses.html (janet-dev.github.io)	130 ms
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. <u>Learn more</u> . FCP <u>LCP</u>	
O Preload key requests	^
Consider using ` k rel=preload>` to prioritize fetching resources that are currently requested later imore. FCP LCP	in page load. <u>Learn</u>
Use HTTP/2	^
HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. <u>Learn more</u> .	

	^
Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for anim PNG/WebP for static images instead of GIF to save network bytes. Learn more LCP	nations and
Remove duplicate modules in JavaScript bundles	^
Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by ne TBT	etwork activity.
Avoid serving legacy JavaScript to modern browsers	^
Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't not modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy bounded TBT	e/nomodule feature
Preload Largest Contentful Paint image	^
Preload the image used by the LCP element in order to improve your LCP time. <u>Learn more</u> . <u>LCP</u>	
URL	Potential Savings
div.container-fluid.hero- container.courses-containerimages/christian-holzinger-unsplash.webp (janet- dev.github.io)	0 ms
container.courses-containerimages/christian-holzinger-unsplash.webp (janet-	0 ms
container.courses-containerimages/christian-holzinger-unsplash.webp (janet-dev.github.io)	^
container.courses-containerimages/christian-holzinger-unsplash.webp (janet-dev.github.io) Avoids enormous network payloads — Total size was 341 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn more	^
container.courses-containerimages/christian-holzinger-unsplash.webp (janet-dev.github.io) Avoids enormous network payloads — Total size was 341 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn more	<u>e</u> . [CP]
container.courses-container images/christian-holzinger-unsplash.webp (janet- dev.github.io) Avoids enormous network payloads — Total size was 341 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn more Show 3rd-	e. LCP -party resources (8) Transfer
container.courses-container images/christian-holzinger-unsplash.webp (janet- dev.github.io) Avoids enormous network payloads — Total size was 341 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn more Show 3rd- URL	e. LCP -party resources (8) Transfer Size
Avoids enormous network payloads — Total size was 341 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn more W Show 3rd- URL images/christian-holzinger-unsplash.webp (janet-dev.github.io)	e. LCP -party resources (8) Transfer Size 110.7 KiB

URL	Transfer Size
img/logo.png (raw.githubusercontent.com)	17.8 KiB
js/bootstrap.min.js (cdn.jsdelivr.net)	16.2 KiB
images/black-codher-logo1.jpg (janet-dev.github.io)	12.3 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

Avoids an excessive DOM size — 107 elements

A large DOM will increase memory usage, cause longer $\underline{\text{style calculations}}$, and produce costly $\underline{\text{layout reflows}}$. $\underline{\text{Learn more}}$.

Statistic	Element	Value
Total DOM Elements		107
Maximum DOM Depth	i.fa-brands.fa-twitter	8
Maximum Child Elements	ul.list-group.list-group-flush	6

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 — 0.4 s

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

✓ Show 3rd-party resources (1)

URL	Total CPU Time	Script Evaluation	Script Parse
/ci-milestone-project-1/courses.html (janet-dev.github.io)	411 ms	106 ms	58 ms
Unattributable	255 ms	17 ms	0 ms
<pre>chrome- extension://aeblfdkhhhdcdjpifhhbdiojplfjncoa/inline/injected.js</pre>	121 ms	45 ms	55 ms
/7c6e646adf.js (kit.fontawesome.com)	85 ms	68 ms	2 ms

Minimizes main-thread work — 1.0 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
Other	426 ms
Script Evaluation	301 ms
Script Parsing & Compilation	126 ms
Style & Layout	80 ms
Parse HTML & CSS	59 ms
Rendering	51 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. <u>Learn more</u>. (TBT)

Third-Party Transfer Size Main-Thread Blocking Time

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	2 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>.

Element

div.container-fluid.hero-container.courses-container

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> more.

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. Learn more CLS

Has a <meta name="viewport"> tag with width or initial-scale

A `<meta name="viewport">` not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond delay</u> to user input. <u>Learn more</u>. (TBT)

Avoids unload event listeners

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



Accessibility

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

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Hide

O The page has a logical tab order	^
Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more</u> .	
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> .	
O User focus is not accidentally trapped in a region	^
A user can tab into and out of any control or region without accidentally trapping their focus. Learn more.	
O Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. Learn more.	
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 technological tearn more.</nav></main>	ogy.
These items address areas which an automated testing tool cannot cover. Learn more in our guide on <u>conducting an accessib</u> review.	<u>oility</u>
PASSED AUDITS (18)	Hide
[aria-*] attributes match their roles	

[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. 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. [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</html>	^
If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might announce the page's text correctly. <u>Learn more</u> .	
<html> element has a valid value for its [lang] attribute</html>	^
Specifying a valid <u>BCP 47 language</u> helps screen readers announce text properly. <u>Learn more</u> .	
Links have a discernible name	^
Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. <u>Learn more</u> .	
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</u> more.</td><td></td></tr><tr><td>List items (<1i>) are contained within or parent elements</td><td>^</td></tr><tr><td>Screen readers require list items (``) to be contained within a parent `` or `` to be announced properly. Learnmore.</td><td><u>n</u></td></tr><tr><td>Heading elements appear in a sequentially-descending order</td><td>^</td></tr><tr><td>Properly ordered headings that do not skip levels convey the semantic structure of the page, making it easier to navigat and understand when using assistive technologies. <u>Learn more</u>.</td><td>е</td></tr><tr><td>NOT APPLICABLE (26)</td><td>Hid</td></tr><tr><td>[accesskey] values are unique</td><td>^</td></tr><tr><td>Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. <u>Learn more</u>.</td><td></td></tr><tr><td>O button, link, and menuitem elements have accessible names</td><td>^</td></tr><tr><td>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>.</td><td>ile</td></tr><tr><td></td><td></td></tr></tbody></table></script>	

ARIA input fields have accessible names

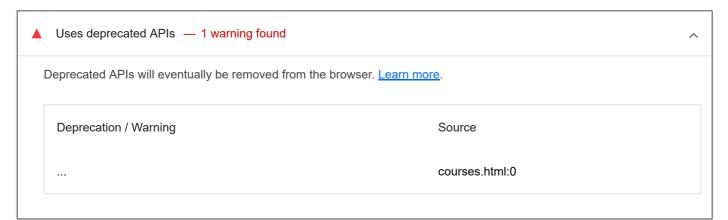
When an input field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
 ARIA meter elements have accessible names
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</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, making it unusable for users who rely on screen readers. <u>Learn more</u> .
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. <u>Learn more</u> .
[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. <u>Learn more.</u>
[role] values are valid
ARIA roles must have valid values in order to perform their intended accessibility functions. <u>Learn more</u> .
ARIA toggle fields have accessible names
When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
ARIA tooltip elements have accessible names
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
O ARIA treeitem elements have accessible names
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .

	^
When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. Learn mo	<u>re</u> .
O Definition list items are wrapped in <dl> elements</dl>	^
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.</dl></dd></dt>	
O [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 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. <u>Learn more</u> .	
<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> .	
<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> .	d
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 con meaning to users. Learn more.</object>	nvey
No element has a [tabindex] value greater than 0	^



Best Practices

GENERAL



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. <u>Learn more</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. 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. <u>Learn more</u> .	
Properly defines charset		^
A character encoding declaration is required. It can be done to the Content-Type HTTP response header. <u>Learn more.</u>	with a ` <meta/> ` tag in the first 1024 bytes of the HTML or in	
No browser errors logged to the console		^
Errors logged to the console indicate unresolved problems. T concerns. Learn more	hey can come from network request failures and other brow	ser
No issues in the Issues panel in Chrome Devtools		^
Issues logged to the `Issues` panel in Chrome Devtools indic- request failures, insufficient security controls, and other brows for more details on each issue.	•	S
Page has valid source maps		^
Source maps translate minified code to the original source co Lighthouse is able to provide further insights. Consider deploy more.		<u>n</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)		Hide
Fonts with font-display: optional are preloaded		^

Fonts with font-display: optional are preloaded
 Preload `optional` fonts so first-time visitors may use them. Learn more
 Detected JavaScript libraries
 All front-end JavaScript libraries detected on the page. Learn more.

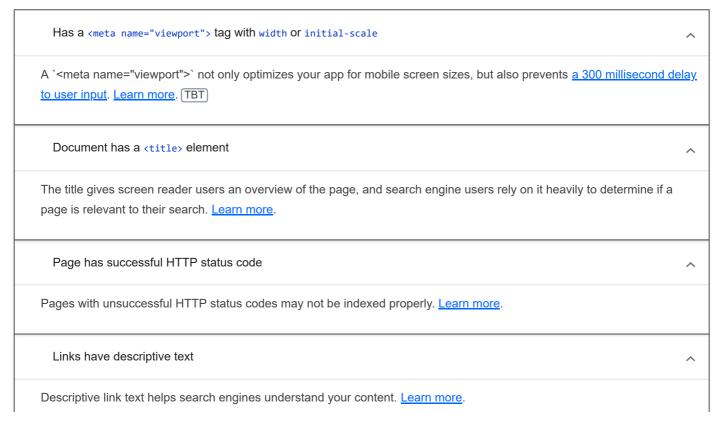


These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on

Core Web Vitals. Learn more.

CONTENT BEST PRACTICES

▲ Document does not have a meta description	^
Meta descriptions may be included in search results to concisely summarize page content. <u>Learn more</u> .	
Format your HTML in a way that enables crawlers to better understand your app's content.	
ADDITIONAL ITEMS TO MANUALLY CHECK (1)	Hid
Structured data is valid	^
Run the Structured Data Testing Tool and the Structured Data Linter to validate structured data. Learn more.	
Run these additional validators on your site to check additional SEO best practices.	
PASSED AUDITS (11)	Hid



	Links are crawlable			^
	Search engines may use 'href' attributes on links to cre to an appropriate destination, so more pages of the site		attribute of anchor elements linl	KS
	Page isn't blocked from indexing			^
	Search engines are unable to include your pages in se	earch results if they don't have permi	ssion to crawl them. <u>Learn more</u>	<u>e</u> .
	Image elements have [alt] attributes			^
	Informative elements should aim for short, descriptive attribute. <u>Learn more</u> .	alternate text. Decorative elements of	can be ignored with an empty al	t
	Document has a valid hreflang			^
	hreflang links tell search engines what version of a pag <u>Learn more</u> .	ge they should list in search results f	or a given language or region.	
	Document uses legible font sizes — 100% legible t	text		^
	Font sizes less than 12px are too small to be legible ar have >60% of page text ≥12px. <u>Learn more</u> .	nd require mobile visitors to "pinch to	zoom" in order to read. Strive t	to
	Source Selector	% of Page Text	Font Size	
	Legible text	100.00%	≥ 12px	
	Document avoids plugins			^
	Search engines can't index plugin content, and many o	devices restrict plugins or don't supp	ort them. <u>Learn more</u> .	
	Tap targets are sized appropriately — 100% appropri	priately sized tap targets		^
	Interactive elements like buttons and links should be lateractive elements.		ough space around them, to be	,
NO	T APPLICABLE (2)		ŀ	Hide

robots.txt is valid

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

Document has a valid rel=canonical



PWA

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

INSTALLABLE

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

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

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

Failure reason

Page has no manifest <link> URL

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 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 not sized correctly for the viewport The viewport size of 376px does not match the window size of 360px. 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 more. Has a <meta name="viewport"> tag with width or initial-scale A `<meta name="viewport">` not only optimizes your app for mobile screen sizes, but also prevents a 300 millisecond delay to user input. Learn more. (TBT) Does not provide a valid apple-touch-icon ^ For ideal appearance on iOS when users add a progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. Learn More. 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 more. 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 more. O 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</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</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.

Each page has a URL

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