

There were issues affecting this run of Lighthouse:

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



Performance

Metrics			=
First Contentful Paint	3.6 s	Time to Interactive	3.6 s
Speed Index	3.6 s	Total Blocking Time	0 ms
Largest Contentful Paint	3.6 s	Cumulative Layout Shift	0.191

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

View Original Trace



Opportunities — These suggestions can help your page load faster. They don't directly affect the Performance score.

Opportunity Estimated Savings

A Eliminate render-blocking resources 1.96 s ^

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

URL		
ONL	Transfer Size	Potentia Savings
css/bootstrap.min.css (cdnjs.cloudflare.com)	31.2 KiB	1,370 ms
/jquery-3.5.1.slim.min.js (code.jquery.com)	24.3 KiB	1,370 ms
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	21.6 KiB	1,230 ms
css/all.css (use.fontawesome.com)	13.4 KiB	1,090 ms
Remove unused CSS		0.15 s ^
Remove dead rules from stylesheets and defer the loading of CSS not used for all unnecessary bytes consumed by network activity. <u>Learn more</u> .	pove-the-fold content to reduce	
	Show 3rd-party re	esources (2)
URL	Transfer Size	Potentia Savings
css/bootstrap.min.css (cdnjs.cloudflare.com)	31.2 KiB	30.2 KiB
css/all.css (use.fontawesome.com)	13.4 KiB	13.3 KiB
Leverage the font-display CSS feature to ensure text is user-visible while webfonts		^
Zeverage the felic display ede feature to choose text is user visible while western	s are loading. <u>Learn more</u> .	^
Edvarage the form display edec feature to cheare text to door violate willie weblent	s are loading. <u>Learn more</u> . Show 3rd-party re	
	-	
	-	esources (2) Potentia
URL	-	esources (2) Potentia Savings
URLwebfonts/fa-solid-900.woff2 (use.fontawesome.com)webfonts/fa-brands-400.woff2 (use.fontawesome.com)	-	Potentia Savings 60 ms 80 ms
URLwebfonts/fa-solid-900.woff2 (use.fontawesome.com)	Show 3rd-party re	Potentia Savings 60 ms 80 ms
URLwebfonts/fa-solid-900.woff2 (use.fontawesome.com)webfonts/fa-brands-400.woff2 (use.fontawesome.com) Minimize main-thread work — 2.4 s Consider reducing the time spent parsing, compiling and executing JS. You may fi with this. Learn more	Show 3rd-party re	Potentia Savings 60 ms 80 ms
URLwebfonts/fa-solid-900.woff2 (use.fontawesome.com)webfonts/fa-brands-400.woff2 (use.fontawesome.com) Minimize main-thread work — 2.4 s Consider reducing the time spent parsing, compiling and executing JS. You may fi	Show 3rd-party re	Potentia Savings 60 ms 80 ms
URLwebfonts/fa-solid-900.woff2 (use.fontawesome.com)webfonts/fa-brands-400.woff2 (use.fontawesome.com) Minimize main-thread work — 2.4 s Consider reducing the time spent parsing, compiling and executing JS. You may fi with this. Learn more Category	Show 3rd-party re	Potentia Savings 60 ms 80 ms ds helps
URLwebfonts/fa-solid-900.woff2 (use.fontawesome.com)webfonts/fa-brands-400.woff2 (use.fontawesome.com) Minimize main-thread work — 2.4 s Consider reducing the time spent parsing, compiling and executing JS. You may fi with this. Learn more Category Other	Show 3rd-party re	Potentia Savings 60 ms 80 ms ds helps Time Spen 1,045 ms
URLwebfonts/fa-solid-900.woff2 (use.fontawesome.com)webfonts/fa-brands-400.woff2 (use.fontawesome.com) Minimize main-thread work — 2.4 s Consider reducing the time spent parsing, compiling and executing JS. You may fi with this. Learn more Category Other Script Evaluation	Show 3rd-party re	Potentia Saving 60 ms 80 ms ds helps Time Sper 1,045 ms 546 ms

Show 3rd-party resources (4)

Category	Time Spent
Script Parsing & Compilation	129 ms
Rendering	117 ms
Garbage Collection	14 ms

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.

Maximum critical path latency: 650 ms

Initial Navigation

/projects.html (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io)

...css/bootstrap.min.css (cdnjs.cloudflare.com) - 70 ms, 31.19 KiB

/jquery-3.5.1.slim.min.js (code.jquery.com) - 100 ms, 24.28 KiB

...js/bootstrap.bundle.min.js (cdn.jsdelivr.net) - 110 ms, 21.65 KiB

...css/all.css (use.fontawesome.com)

...webfonts/fa-solid-900.woff2 (use.fontawesome.com) - 60 ms, 139.24 KiB

...webfonts/fa-brands-400.woff2 (use.fontawesome.com) - 80 ms, 129.21 KiB

...css/style.css (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io)

/css2?family=Mulish:ital,wght@0,400;0,500;1,300&display=swap (fonts.googleapis.com)

...v1/1Ptvg83HX....woff2 (fonts.gstatic.com) - 50 ms, 24.64 KiB

Keep request counts low and transfer sizes small — 12 requests • 398 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	12	398 KiB
Font	3	293.1 KiB
Stylesheet	4	52.9 KiB
Script	3	46.9 KiB
Document	2	5.1 KiB
Image	0	0 KiB
Media	0	0 KiB
Other	0	0 KiB
Third-party	10	386.6 KiB

Largest Contentful Paint element — 1 element found

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

Element

p.card-subtitle

Avoid large layout shifts — 5 elements found

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

Element	CLS Contribution
div.col-12.col-sm-6.col-md-4.project	0.086
div.col-12.col-sm-6.col-md-4.project	0.057
div.card.text-center	0.039
div.card-body	0.009
p.card-subtitle	0

Avoid long main-thread tasks — 12 long tasks found

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

✓ Show 3rd-party resources (3)

URL	Start Time	Duration
/projects.html (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io)	844 ms	198 ms
/css2?family=Mulish:ital,wght@0,400;0,500;1,300&display=swap (fonts.googleapis.com)	1,573 ms	189 ms
chrome-extension://dodmmooeoklaejobgleioelladacbeki/dist/bundles/gitpodify.bundle.js	1,876 ms	159 ms
/projects.html (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io)	1,452 ms	121 ms
/projects.html (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io)	1,147 ms	119 ms
<pre>chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/data/js/ch-content-script-dend.js</pre>	1,042 ms	105 ms
/jquery-3.5.1.slim.min.js (code.jquery.com)	2,323 ms	80 ms
Unattributable	1,314 ms	73 ms
/projects.html (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io)	1,808 ms	68 ms
chrome-extension://dodmmooeoklaejobgleioelladacbeki/dist/bundles/gitpodify.bundle.js	2,063 ms	66 ms
Unattributable	1,387 ms	65 ms
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	2,403 ms	61 ms

Avoid non-composited animations — 6 animated elements found

Animations which are not composited can be janky and contribute to CLS. Learn more

Element div.card.text-center Unsupported CSS Property div.card.text-center **Unsupported CSS Property** div.card.text-center Unsupported CSS Property div.card.text-center Unsupported CSS Property div.card.text-center Unsupported CSS Property div.card.text-center Unsupported CSS Property Passed audits (25) Properly size images Serve images that are appropriately-sized to save cellular data and improve load time. Learn more. Defer offscreen images Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. Learn more. Minify CSS — Potential savings of 3 KiB Minifying CSS files can reduce network payload sizes. Learn more. Show 3rd-party resources (0) Transfer Potential URL Size Savings ...css/style.css (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io) 7.4 KiB 2.9 KiB Minify JavaScript Minifying JavaScript files can reduce payload sizes and script parse time. Learn more. Remove unused JavaScript Remove unused JavaScript to reduce bytes consumed by network activity. Learn more. Efficiently encode images

Optimized images load faster and consume less cellular data. Learn more.

Serve images in next-gen formats	
Image formats like JPEG 2000, JPEG XR, and WebP often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. <u>Learn more</u> .	
Enable text compression — Potential savings of 13 KiB	^
Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. <u>Learn more</u> .	
Show 3rd-party resources (0)
URL Transfer Poten Size Savir	
css/style.css (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io) 14.3 KiB 12.5 K	iB
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> .	
Initial server response time was short — Root document took 110 ms	^
Keep the server response time for the main document short because all other requests depend on it. <u>Learn more</u> .	
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. <u>Learn more</u> .	
Preload key requests	^
Consider using ` k rel=preload>` to prioritize fetching resources that are currently requested later in page load. <u>Learn more</u>.	
Use HTTP/2	^
HTTP/2 offers many benefits over HTTP/1.1, including binary headers, multiplexing, and server push. <u>Learn more</u> .	
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. <u>Learn more</u>	
Remove duplicate modules in JavaScript bundles	^
Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity.	
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. <u>Learn More</u>	
☐ Show 3rd-party resources (1)

JavaScript execution time - 0.6 s

URL Potential Savings Avoids enormous network payloads — Total size was 398 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn more. ✓ Show 3rd-party resources (7) URL Transfer Size ...webfonts/fa-solid-900.woff2 (use.fontawesome.com) 139.2 KiB ...webfonts/fa-brands-400.woff2 (use.fontawesome.com) 129.2 KiB ...css/bootstrap.min.css (cdnjs.cloudflare.com) 31.2 KiB ...v1/1Ptvg83HX....woff2 (fonts.gstatic.com) 24.6 KiB 24.3 KiB /jquery-3.5.1.slim.min.js (code.jquery.com) ...js/bootstrap.bundle.min.js (cdn.jsdelivr.net) 21.6 KiB 13.4 KiB ...css/all.css (use.fontawesome.com) 7.4 KiB ...css/style.css (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io) 4 KiB /projects.html (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io) chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/data/js/extn-utils.html 1 KiB Uses efficient cache policy on static assets — 1 resource found A long cache lifetime can speed up repeat visits to your page. Learn more. Show 3rd-party resources (0) **URL** Cache TTL Transfer Size 7 KiB ...css/style.css (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io) None Avoids an excessive DOM size — 169 elements A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn more. Statistic Element Value **Total DOM Elements** 169 Maximum DOM Depth 12 Maximum Child Elements <div class="row project-row"> 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. Learn more.

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

✓ Show 3rd-party resources (2)

URL	Total CPU Time	Script Evaluation	Script Parse
/projects.html (8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-eu01.gitpod.io)	1,118 ms	107 ms	38 ms
Unattributable	518 ms	13 ms	3 ms
<pre>chrome- extension://dodmmooeoklaejobgleioelladacbeki/dist/bundles/gitpodify.bundle. js</pre>	226 ms	161 ms	63 ms
/css2? family=Mulish:ital,wght@0,400;0,500;1,300&display=swap (fonts.googleapis.com)	189 ms	0 ms	0 ms
/jquery-3.5.1.slim.min.js (code.jquery.com)	119 ms	75 ms	8 ms
<pre>chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/data/js/ch-content- script-dend.js</pre>	113 ms	111 ms	1 ms
family=Mulish:ital,wght@0,400;0,500;1,300&display=swap (fonts.googleapis.com) /jquery-3.5.1.slim.min.js (code.jquery.com) chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/data/js/ch-content-	119 ms	75 ms	8 ms

Minimize third-party usage — Third-party code blocked the main thread for 80 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>.

Third-Party	Transfer Size	Main-Thread Blocking Time
Google Fonts	26 KiB	67 ms
jQuery CDN	24 KiB	13 ms
FontAwesome CDN	282 KiB	0 ms
Cloudflare CDN	31 KiB	0 ms
JSDelivr CDN	22 KiB	0 ms

Uses passive listeners to improve scrolling performance

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

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>.

Image elements have explicit width and height

Set an explicit width and height on image elements to reduce layout shifts and improve CLS. Learn more

а



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.

Names and labels — These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

<u> </u>	Buttons do not 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. <u>Learn more</u> .	
	Failing Elements	
	button.card-text	
A	Links do not 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> .	
	Failing Elements	
	a	
	a	
	a	
	a	
	a	
	a	
	a	
	a	
	a	

Contrast — These are opportunities to improve the legibility of your content. Background and foreground colors do not have a sufficient contrast ratio. Low-contrast text is difficult or impossible for many users to read. Learn more. Failing Elements p.card-title p.card-subtitle p.card-title p.card-subtitle p.card-title p.card-subtitle p.card-title p.card-subtitle p.card-title p.card-subtitle p.card-title p.card-subtitle Additional items to manually check (10) — These items address areas which an automated testing tool cannot cover. Learn A more in our guide on conducting an accessibility review. 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. Learn more. Interactive elements indicate their purpose and state Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. Learn more. The user's focus is directed to new content added to the page If new content, such as a dialog, is added to the page, the user's focus is directed to it. Learn more. User focus is not accidentally trapped in a region A user can tab into and out of any control or region without accidentally trapping their focus. Learn more.

	Custom controls have associated labels	^
	Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
	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. <u>Learn more</u> .	
	Offscreen content is hidden from assistive technology	^
	Offscreen content is hidden with display: none or aria-hidden=true. <u>Learn more</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. <u>Learn more</u>.</nav></main>	
Pas	ssed audits (13)	^
	[aria-*] attributes match their roles	^
	Each ARIA `role` supports a specific subset of `aria-*` attributes. Mismatching these invalidates the `aria-*` attributes. <u>Learn more</u> .	
	[aria-hidden="true"] is not present on the document <body></body>	^
	Assistive technologies, like screen readers, work inconsistently when `aria-hidden="true"` is set on the document ` <body>`. <u>Learn more</u>.</body>	
	[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. <u>Learn more</u> .	
	[aria-*] attributes have valid values	^
	Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. <u>Learn more</u> .	
	[aria-*] attributes are valid and not misspelled	^
	Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. <u>Learn more</u> .	
	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</u> .	
	Document has a <title> element</td><td>^</td></tr><tr><td></td><td>The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. <u>Learn more</u>.</td><td>)</td></tr><tr><td></td><td>ARIA IDs are unique</td><td>^</td></tr></tbody></table></title>	

The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Learn more</u>.

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

<html> element has a valid value for its [lang] attribute

Specifying a valid BCP 47 language helps screen readers announce text properly. Learn more.

Lists contain only elements and script supporting elements (<script> and <template>).

Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn</u> more.

List items () are contained within or parent elements

Screen readers require list items (`') to be contained within a parent `' or `' to be announced properly. <u>Learn</u> 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. <u>Learn more</u>.

Not applicable (25)

[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.

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>.

[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.

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 functions. Learn more.

[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 unusable for users who rely on screen readers. Learn more. <dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements. When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. Learn more. Definition list items are wrapped in <dl> elements 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. [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. Learn more. <frame> or <iframe> elements have a title Screen reader users rely on frame titles to describe the contents of frames. 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. 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. <input type="image"> elements have [alt] text When an image is being used as an `<input>` button, providing alternative text can help screen reader users understand the purpose of the button. Learn more. Form elements have associated labels Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more. Presentational elements avoid using , <caption> or the [summary] attribute. A table being used for layout purposes should not include data elements, such as the th or caption elements or the summary attribute, because this can create a confusing experience for screen reader users. Learn more. 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. Learn more. <object> elements have [alt] text

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

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. <u>Learn more</u>.

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

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

[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 more</u>.

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

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

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

Audio descriptions provide relevant information for videos that dialogue cannot, such as facial expressions and scenes. Learn more.



Best Practices

Trust and Safety

▲ Links to cross-origin destinations are unsafe

Add `rel="noopener"` or `rel="noreferrer"` to any external links to improve performance and prevent security vulnerabilities. <u>Learn more</u>.

Failing Anchors

а

а

Failing Anchors

a		
a		
a		
Passed audits (14)		^
Uses HTTPS		^
where some resources are loaded over HTTP despite the i	e communications between your app and your users, and is a	
Avoids requesting the geolocation permission on page load	1	^
Users are mistrustful of or confused by sites that request the action instead. Learn more.	neir location without context. Consider tying the request to a user	
Avoids requesting the notification permission on page load		^
Users are mistrustful of or confused by sites that request to user gestures instead. <u>Learn more</u> .	o send notifications without context. Consider tying the request to	
Avoids front-end JavaScript libraries with known security vi	ulnerabilities	^
Some third-party scripts may contain known security vulner <u>Learn more</u> .	rabilities that are easily identified and exploited by attackers.	
Allows users to paste into password fields		^
Preventing password pasting undermines good security po	licy. <u>Learn more</u> .	
Displays images with correct aspect ratio		^
Image display dimensions should match natural aspect rati	o. <u>Learn more</u> .	
Serves images with appropriate resolution		^
Image natural dimensions should be proportional to the dismore.	play size and the pixel ratio to maximize image clarity. <u>Learn</u>	
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 don Content-Type HTTP response header. <u>Learn more</u> .	e with a <meta/> tag in the first 1024 bytes of the HTML or in the	
Avoids unload event listeners		^

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

Avoids Application Cache		^
Application Cache is deprecated. <u>Learn more</u> .		
Detected JavaScript libraries		^
All front-end JavaScript libraries detected on the page. Le	arn more.	
Name	Version	
Bootstrap	4.5.3	
jQuery	3.5.1	
Avoids deprecated APIs		^
Deprecated APIs will eventually be removed from the brow	vser. <u>Learn more</u> .	
No browser errors logged to the console		^
Errors logged to the console indicate unresolved problems concerns. Learn more	s. They can come from network request failures and other brown	wser



These checks ensure that your page is optimized for search engine results ranking. There are additional factors Lighthouse does not check that may affect your search ranking. <u>Learn more</u>.

Mobile Friendly — Make sure your pages are mobile friendly so users don't have to pinch or zoom in order to read the content pages. <u>Learn more</u>.

Tap targets are not sized appropriately — 75% appropriate	v sized tap targets	
---	---------------------	--

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

Overlapping Target
a a
a a
a a
3

practices.	ally check (1) — Run the	se additional validators on your	site to check additional SEO best	^
Structured data is valid	i			^
Run the Structured Da	ta Testing Tool and the Stru	uctured Data Linter to validate st	ructured data. <u>Learn more</u> .	
Passed audits (10)				^
Hasa <meta name="vie</td><td>wport"/> tag with width or in	itial-scale		^	
Add a ` <meta name="</td><td>viewport"/> ` tag to optimize	your app for mobile screens. <u>Lea</u>	arn more.		
Document has a <titl< td=""><td>e> element</td><td></td><td></td><td>^</td></titl<>	e> element			^
The title gives screen is relevant to their seal		f the page, and search engine us	sers rely on it heavily to determine if a page	е
Document has a meta	description			^
Meta descriptions may	be included in search resu	Its to concisely summarize page	content. <u>Learn more</u> .	
Page has successful F	HTTP status code			^
Pages with unsuccess	ful HTTP status codes may	not be indexed properly. Learn	more.	
Links have descriptive	text			^
Descriptive link text he	elps search engines underst	and your content. <u>Learn more</u> .		
Links are crawlable				^
-		to crawl websites. Ensure that the site can be discovered. <u>Learn</u>	ne `href` attribute of anchor elements links <u>More</u>	
Page isn't blocked fror	n indexing			^
Search engines are ur	nable to include your pages	in search results if they don't ha	ve permission to crawl them. <u>Learn more</u> .	
Document has a valid	hreflang			^
hreflang links tell seard <u>Learn more</u> .	ch engines what version of	a page they should list in search	results for a given language or region.	
Document uses legible	e font sizes — 100% legibl	e text		^
Font sizes less than 12 have >60% of page te		ole and require mobile visitors to	"pinch to zoom" in order to read. Strive to	
			Show 3rd-party resources (0)
Source	Selector	% of Page Text	Font Size	
Legible text		100.00%	≥ 12px	

Document avoids plugins

Search engines can't index plugin content, and many devices restrict plugins or don't support them. Learn more.

Not applicable (3)

robots.txt is valid

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

Image elements have [alt] attributes

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

Document has a valid rel=canonical

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



Progressive Web App

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

Fast and reliable

Page load is fast enough on mobile networks

A fast page load over a cellular network ensures a good mobile user experience. Learn more.

▲ Current page does not respond with a 200 when offline

If you're building a Progressive Web App, consider using a service worker so that your app can work offline. Learn more.

▲ start_url does not respond with a 200 when offline No usable web app manifest found on page.

A service worker enables your web app to be reliable in unpredictable network conditions. Learn more.

Installable

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 servedover 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>.

▲ 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. Learn more.

▲ Web app manifest does not meet the installability requirements Failures: No manifest was fetched.

Browsers can proactively prompt users to add your app to their homescreen, which can lead to higher engagement. <u>Learn more</u>.

PWA Optimized

Redirects HTTP traffic to HTTPS

If you've already set up HTTPS, make sure that you redirect all HTTP traffic to HTTPS in order to enable secure web features for all your users. <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> more.

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

Add a `<meta name="viewport">` tag to optimize your app for mobile screens. Learn more.

Contains some content when JavaScript is not available

Your app should display some content when JavaScript is disabled, even if it's just a warning to the user that JavaScript is required to use the app. <u>Learn more</u>.

▲ 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) — 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.

Site works cross-browser

To reach the most number of users, sites should work across every major browser. Learn more.

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>.

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. <u>Learn more</u>.

Runtime Settings

URL https://8000-d272d922-26dd-4345-94d5-490d13a8d64e.ws-

eu01.gitpod.io/projects.html

Fetch Time Nov 18, 2020, 9:36 PM GMT

Device Emulated Moto G4

Network throttling 150 ms TCP RTT, 1,638.4 Kbps throughput (Simulated)

CPU throttling 4x slowdown (Simulated)

Channel devtools

User agent (host) Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like

Gecko) Chrome/86.0.4240.198 Safari/537.36

User agent (network) Mozilla/5.0 (Linux; Android 7.0; Moto G (4)) AppleWebKit/537.36 (KHTML, like

Gecko) Chrome/84.0.4143.7 Mobile Safari/537.36 Chrome-Lighthouse

CPU/Memory Power 798

Generated by Lighthouse 6.2.0 | File an issue