

http://localhost:63342/P12_Front-end/employee-list.html





Performance

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



50-89

90-100



METRICS Expand view

First Contentful Paint

0.5 s

Largest Contentful Paint

 $0.5 \, s$

about:blank

Total Blocking Time

0 ms

Cumulative Layout Shift

0.001

Speed Index

0.5 s



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Later this year, insights will replace performance audits. <u>Learn more and provide</u>

Try insights

feedback here.

Show audits relevant to: All FCP LCP TBT CLS

DIAGNOSTICS

Eliminate render-blocking resources — Est savings of 330 ms

all non-

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

✓ Show 3rd-party resources (3)

URL	Transfer	Est
	Size	Savings
Google CDN Cdn	30.4 KiB	280 ms
3.5.1/jquery.min.js (ajax.googleapis.com)	30.4 KiB	280 ms
datatables.net	29.8 KiB	330 ms
js/jquery.dataTables.min.js (cdn.datatables.net)	27.7 KiB	80 ms
css/jquery.dataTables.min.css (cdn.datatables.net)	2.1 KiB	250 ms
localhost 1st Party	1.0 KiB	80 ms
(
/P12_Front-end/employee-list.js (localhost)	1.0 KiB	80 ms
71 12_1 Tont englemployee list.js (localitist)	1.0 KID	00 1115

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Does not have a <meta name="viewport"> tag with width or initial-scale

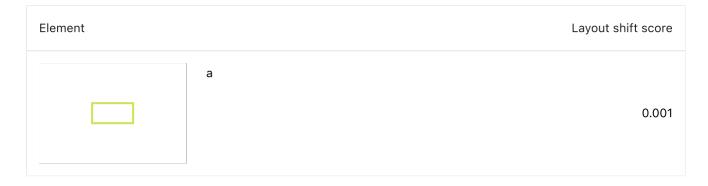
No `<meta name="viewport">` tag found

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

Avoid large layout shifts — 1 layout shift found

These are the largest layout shifts observed on the page. Each table item represents a single layout shift, and shows the element that shifted the most. Below each item are possible root causes that led to the layout shift. Some of these layout shifts may not be included in the CLS metric value due to <u>windowing</u>. <u>Learn how to improve CLS (CLS)</u>

^



O Avoid chaining critical requests — 5 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 how to avoid chaining critical requests</u>.

Maximum critical path latency: 68.776 ms

Initial Navigation

/P12_Front-end/employee-list.html (localhost)

- ...3.5.1/jquery.min.js (ajax.googleapis.com) 61.057 ms, 30.37 KiB
- ...js/jquery.dataTables.min.js (cdn.datatables.net) 55.631 ms, 27.66 KiB
- ...css/jquery.dataTables.min.css (cdn.datatables.net) 55.886 ms, 2.09 KiB

/P12_Front-end/employee-list.js (localhost) - 3.512 ms, 0.97 KiB

/P12_Front-end/app.css (localhost) - 2.894 ms, 0.62 KiB

Minimize third-party usage — Third-party code blocked the main thread for 0 ms

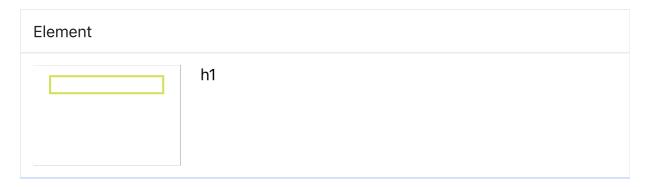
Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and try to load third-party code after your page has primarily finished loading. <u>Learn how to minimize third-party impact</u>. (TBT)

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Third-Party	Transfer Size	Main-Thread Blocking Time
datatables.net	31 KiB	0 ms
js/jquery.dataTables.min.js (cdn.datatables.net)	28 KiB	0 ms
css/jquery.dataTables.min.css (cdn.datatables.net)	2 KiB	0 ms
images/sort_both.png (cdn.datatables.net)	0 KiB	0 ms
images/sort_asc.png (cdn.datatables.net)	0 KiB	0 ms
Google CDN Cdn	30 KiB	0 ms
3.5.1/jquery.min.js (ajax.googleapis.com)	30 KiB	0 ms

○ Largest Contentful Paint element — 490 ms

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



Phase	% of LCP	Timing
TTFB	25%	120 ms
Load Delay	0%	0 ms
Load Time	0%	0 ms
Render Delay	75%	370 ms

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

Properly size images

Hide

Serve images that are appropriately-sized to save cellular data and improve load time. Learn how to size images. [FCP] [LCP]

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Defer offscreen images	^
Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time interactive. Learn how to defer offscreen images. FCP LCP	e to
Minify CSS	^
Minifying CSS files can reduce network payload sizes. <u>Learn how to minify CSS</u> . FCP LCP	
Minify JavaScript	^
Minifying JavaScript files can reduce payload sizes and script parse time. <u>Learn how to minify JavaScript</u> . FCP	
Reduce unused CSS	^
Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. Learn how to reduce unused CSS. FCP LCP	
Reduce unused JavaScript	^
Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by netw activity. Learn how to reduce unused JavaScript. FCP LCP	vork
Efficiently encode images	^
Optimized images load faster and consume less cellular data. <u>Learn how to efficiently encode images</u> . <u>FCP</u> <u>LCP</u>	9
Serve images in next-gen formats	^
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 about modern image formats</u> . FCP <u>LCP</u>	
Enable text compression	^
Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes Learn more about text compression. FCP LCP	s.
Preconnect to required origins	^
Consider adding preconnect or dns-prefetch resource hints to establish early connections to important third party origins. Learn how to preconnect to required origins. LCP FCP	-
Initial server response time was short — Root document took 0 ms	^

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Keep the server response time for the main document short because all other requests depend on it. <u>Learn more about the Time to First Byte metric</u>. [FCP] <u>(LCP)</u>

URL	Time Spent
localhost 1st Party	0 ms
/P12_Front-end/employee-list.html (localhost)	0 ms
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded	d. <u>Learn how to avoid page redirects</u> . <u>LCP</u> <u>FCP</u>
Use HTTP/2	^
HTTP/2 offers many benefits over HTTP/1.1, including binary header LCP FCP	s and multiplexing. <u>Learn more about HTTP/2</u> .
Use video formats for animated content	^
Large GIFs are inefficient for delivering animated content. Consider PNG/WebP for static images instead of GIF to save network bytes. L	
Remove duplicate modules in JavaScript bundles	^
Remove large, duplicate JavaScript modules from bundles to reduce activity. FCP LCP	e unnecessary bytes consumed by network
Avoid serving legacy JavaScript to modern browsers	^
Polyfills and transforms enable legacy browsers to use new JavaScr modern browsers. Consider modifying your JavaScript build proces know you must support legacy browsers. <u>Learn why most sites can</u>	s to not transpile <u>Baseline</u> features, unless you
Preload Largest Contentful Paint image	^
If the LCP element is dynamically added to the page, you should premore about preloading LCP elements. (LCP)	eload the image in order to improve LCP. <u>Learn</u>
Avoids enormous network payloads — Total size was 66 KiB	^
Large network payloads cost users real money and are highly correl	ated with long load times. <u>Learn how to reduce</u>

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payload sizes.

✓ Show 3rd-party resources (5)

URL	Transfer Size
datatables.net	30.7 KiB
js/jquery.dataTables.min.js (cdn.datatables.net)	27.7 KiB
css/jquery.dataTables.min.css (cdn.datatables.net)	2.1 KiB
images/sort_both.png (cdn.datatables.net)	0.5 KiB
images/sort_asc.png (cdn.datatables.net)	0.4 KiB
Google CDN Cdn	30.4 KiB
3.5.1/jquery.min.js (ajax.googleapis.com)	30.4 KiB
localhost 1st Party	5.1 KiB
/favicon.ico (localhost)	2.5 KiB
/P12_Front-end/employee-list.html (localhost)	1.0 KiB
/P12_Front-end/employee-list.js (localhost)	1.0 KiB
/P12_Front-end/app.css (localhost)	0.6 KiB

Uses efficient cache policy on static assets $\,-\,$ 0 resources found

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

Avoids an excessive DOM size — 139 elements

A large DOM will increase memory usage, cause longer <u>style calculations</u>, and produce costly <u>layout reflows</u>. <u>Learn</u> <u>how to avoid an excessive DOM size</u>. (TBT)

Statistic	Element		Value
Total DOM Elements			139
Maximum DOM Depth	option		7
Maximum Child Elements		tbody	10

Statistic	Element	Value

User Timing marks and measures

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

JavaScript execution time

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

Minimizes main-thread work - 0.1 s

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

Category	Time Spent
Parse HTML & CSS	20 ms
Other	15 ms
Script Evaluation	14 ms
Style & Layout	9 ms
Script Parsing & Compilation	4 ms
Rendering	2 ms

All text remains visible during webfont loads

Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. <u>Learn more about font-display</u>.

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</u> how to defer third-parties with a facade. (TBT)

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Largest Contentful Paint image was not lazily loaded Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful paint. Learn more about optimal lazy loading. LCP 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 about adopting passive event listeners. Avoids document.write() For users on slow connections, external scripts dynamically injected via document.write() can delay page load by tens of seconds. Learn how to avoid document.write(). Avoid long main-thread tasks Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. Learn how to avoid long main-thread tasks TBT Avoid non-composited animations Animations which are not composited can be janky and increase CLS. Learn how to avoid non-composited animations (CLS) Image elements have explicit width and height Set an explicit width and height on image elements to reduce layout shifts and improve CLS. Learn how to set image dimensions (CLS) Page didn't prevent back/forward cache restoration Many navigations are performed by going back to a previous page, or forwards again. The back/forward cache (bfcache) can speed up these return navigations. Learn more about the bfcache



Accessibility

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

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INTERNATIONALIZATION AND LOCALIZATION

<html> element does not have 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 the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might not announce the page's text correctly. Learn more about the lang attribute.							
Failing Elements							
html							
These are opportunities to improve the interpretation of your content by users in different locales.							
ADDITIONAL ITEMS TO MANUALLY CHECK (10)	Hide						
Interactive controls are keyboard focusable	^						
Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn how to make custom controls focusable</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 how to decorate interactive elements with affordance hints</u> .							
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 about logical tab ordering</u> .	<u>2</u>						
O Visual order on the page follows DOM order	^						
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more about DOM and visual ordering.</u>	I						
User focus is not accidentally trapped in a region	^						
A user can tab into and out of any control or region without accidentally trapping their focus. <u>Learn how to avoi</u> focus traps.	<u>d</u>						

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	O The user's focus is directed to new content added to the page	^
	If new content, such as a dialog, is added to the page, the user's focus is directed to it. <u>Learn how to direct focus</u> <u>new content</u> .	<u>to</u>
	O 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 about landmark elements</u>.</nav></main>	
	Offscreen content is hidden from assistive technology	^
	Offscreen content is hidden with display: none or aria-hidden=true. Learn how to properly hide offscreen content.	
	 Custom controls have associated labels 	^
	Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more about custom controls and labels</u> .	
	O Custom controls have ARIA roles	^
	Custom interactive controls have appropriate ARIA roles. <u>Learn how to add roles to custom controls</u> .	
	nese items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an excessibility review.	
P.	ASSED AUDITS (22)	Hide
	[aria-*] attributes match their roles	^
	Each ARIA role supports a specific subset of aria—* attributes. Mismatching these invalidates the aria—* attributes. Learn how to match ARIA attributes to their roles.	
	[aria-hidden="true"] is not present on the document <body></body>	^
	Assistive technologies, like screen readers, work inconsistently when aria-hidden="true" is set on the document state. <body>. Learn how aria-hidden affects the document body.</body>	ent
	[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 ab</u> roles and required attributes.	<u>out</u>
	Elements with an ARIA [role] that require children to contain a specific [role] have all required children.	^

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

[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 about ARIA roles and required parent element</u>.

[aria-*] attributes have valid values

Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. <u>Learn more about valid values for ARIA attributes</u>.

[aria-*] attributes are valid and not misspelled

Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. <u>Learn more about valid ARIA attributes</u>.

ARIA attributes are used as specified for the element's role

Some ARIA attributes are only allowed on an element under certain conditions. <u>Learn more about conditional ARIA</u> attributes.

Elements use only permitted ARIA attributes

Using ARIA attributes in roles where they are prohibited can mean that important information is not communicated to users of assistive technologies. <u>Learn more about prohibited ARIA roles</u>.

[role] values are valid

ARIA roles must have valid values in order to perform their intended accessibility functions. <u>Learn more about valid ARIA roles.</u>

Background and foreground colors have a sufficient contrast ratio

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

Document has a <title> element

The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. <u>Learn more about document titles</u>.

Form elements have associated labels

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

Links have a discernible name

Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. <u>Learn how to make links accessible</u>.

Select elements have associated label elements.

Form elements without effective labels can create frustrating experiences for screen reader users. <u>Learn more about</u> the select element.

No element has a [tabindex] value greater than 0

A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. <u>Learn more about the tabindex attribute</u>.

Touch targets have sufficient size and spacing.

Touch targets with sufficient size and spacing help users who may have difficulty targeting small controls to activate the targets. <u>Learn more about touch targets</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 about the headers attribute.

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. <u>Learn more about heading order</u>.

Uses ARIA roles only on compatible elements

Many HTML elements can only be assigned certain ARIA roles. Using ARIA roles where they are not allowed can interfere with the accessibility of the web page. <u>Learn more about ARIA roles</u>.

Deprecated ARIA roles were not used

Deprecated ARIA roles may not be processed correctly by assistive technology. <u>Learn more about deprecated ARIA roles</u>.

Tables have different content in the summary attribute and <caption>.

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The summary attribute should describe the table structure, while <caption> should have the onscreen title. Accurate table mark-up helps users of screen readers. Learn more about summary and caption.

NOT APPLICABLE (34)		Hide
[accesskey] values are unique		^
Access keys let users quickly focus a part of Learn more about access keys.	f the page. For proper navigation, each access key must be	e unique.
button, link, and menuitem elements have	accessible names	^
	e name, screen readers announce it with a generic name, rers. Learn how to make command elements more accessible	_
Elements with role="dialog" or role="ale	rtdialog" have accessible names.	^
ARIA dialog elements without accessible nar these elements. <u>Learn how to make ARIA dia</u>	mes may prevent screen readers users from discerning the alog elements more accessible.	e purpose of
O [aria-hidden="true"] elements do not con	ntain focusable descendents	^
	dden="true"] element prevent those interactive element ike screen readers. <u>Learn how aria-hidden affects focus</u>	_
 ARIA input fields have accessible names 		^
When an input field doesn't have an accessi unusable for users who rely on screen reade	ble name, screen readers announce it with a generic nameers. Learn more about input field labels.	e, making it
 ARIA meter elements have accessible nam 	es	^
When a meter element doesn't have an acceunusable for users who rely on screen reade	essible name, screen readers announce it with a generic na ers. <u>Learn how to name meter elements</u> .	ame, making it
 ARIA progressbar elements have accessib 	le names	^
	e an accessible name, screen readers announce it with a ge reen readers. <u>Learn how to label progressbar elements</u> .	eneric name,
 Elements with the role=text attribute do r 	not have focusable descendents.	^
Adding role=text around a text node split	by markup enables VoiceOver to treat it as one phrase, bu	it the

element's focusable descendents will not be announced. <u>Learn more about the role=text attribute</u>.

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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 unusable for users who rely on screen readers. <u>Learn more about toggle fields</u> .	it
 ARIA tooltip elements have accessible names 	^
When a tooltip element doesn't have an accessible name, screen readers announce it with a generic name, make unusable for users who rely on screen readers. <u>Learn how to name tooltip elements</u> .	king it
 ARIA treeitem elements have accessible names 	^
When a treeitem element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more about labeling treeitem elements</u> .	
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. <u>Learn how to make buttons more accessible</u> .	or
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 at bypass blocks</u> .	<u>oout</u>
<dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</td><td>^</td></tr><tr><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. how to structure definition lists correctly.</td><td><u>Learn</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 properly announce them. Learn how to structure definition lists correctly.</td><td>can</td></tr><tr><td>O ARIA IDs are unique</td><td>^</td></tr><tr><td>The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technolo Learn how to fix duplicate ARIA IDs.</td><td>gies.</td></tr><tr><td>No form fields have multiple labels</td><td>^</td></tr><tr><td>Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers whuse either the first, the last, or all of the labels. Learn how to use form labels.</td><td>iich</td></tr></tbody></table></script></dd></dt></dl>	

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<frame/> or <iframe> elements have a title</iframe>	^
Screen reader users rely on frame titles to describe the contents of frames. <u>Learn more about frame titles</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 how to use the lang</u> <u>attribute</u> .	
<html> element has an [xml:lang] attribute with the same base language as the [lang] attribute.</html>	^
If the webpage does not specify a consistent language, then the screen reader might not announce the page's to correctly. <u>Learn more about the lang attribute</u> .	ext
Image elements have [alt] attributes	^
Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. Learn more about the alt attribute.	า
Image elements do not have [alt] attributes that are redundant text.	^
Informative elements should aim for short, descriptive alternative text. Alternative text that is exactly the same a the text adjacent to the link or image is potentially confusing for screen reader users, because the text will be reat twice. Learn more about the alt attribute.	
O Input buttons have discernible text.	^
Adding discernable and accessible text to input buttons may help screen reader users understand the purpose of the input button. <u>Learn more about input buttons</u> .	f
<pre>O <input type="image"/> elements have [alt] text</pre>	^
When an image is being used as an <input/> button, providing alternative text can help screen reader users understand the purpose of the button. Learn about input image alt text.	
O Links are distinguishable without relying on color.	^
Low-contrast text is difficult or impossible for many users to read. Link text that is discernible improves the experience for users with low vision. <u>Learn how to make links distinguishable</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 more about proper list structure</u>.</td><td></td></tr></tbody></table></script>	

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List items () are contained within , or <menu> parent elements</menu>	^
Screen readers require list items () to be contained within a parent , or <menu> to be announce properly. <u>Learn more about proper list structure</u>.</menu>	d
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. may create a frustrating or confusing experience. <u>Learn more about the refresh meta tag</u> .	This
[user-scalable="no"] is not used in the <meta name="viewport"/> element and the [maximum-scale] attribute is not less than 5.	s
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 about the viewport meta tag</u> .	;
O <object> elements have alternate text</object>	^
Screen readers cannot translate non-text content. Adding alternate text to <object> elements helps screen reconvey meaning to users. Learn more about alt text for object elements.</object>	aders
O Skip links are focusable.	^
Including a skip link can help users skip to the main content to save time. Learn more about skip links.	
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 se cells may improve the experience for screen reader users. <u>Learn more about table headers</u> .	t of
O [lang] attributes have a valid value	^
Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen real <u>Learn how to use the lang attribute</u> .	ıder.
<pre><video> elements contain a <track/> element with [kind="captions"]</video></pre>	^
When a video provides a caption it is easier for deaf and hearing impaired users to access its information. <u>Learn more about video captions</u> .	<u>n</u>

Best Practices

USER EXPERIENCE

Does not have a <meta name="viewport"> tag with width or initial-scale

No `<meta name="viewport"> ` tag found

^

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

BROWSER COMPATIBILITY

▲ Page lacks the HTML doctype, thus triggering quirks-mode Document must contain a doctype

^

Specifying a doctype prevents the browser from switching to quirks-mode. <u>Learn more about the doctype</u> declaration.

▲ Charset declaration is missing or occurs too late in the HTML

^

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. <u>Learn more about declaring the character encoding</u>.

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</u> how to use a CSP to prevent XSS

Description	Directive	Severity
No CSP found in enforcement mode		High

Use a strong HSTS policy

^

Deployment of the HSTS header significantly reduces the risk of downgrading HTTP connections and eavesdropping attacks. A rollout in stages, starting with a low max-age is recommended. <u>Learn more about using a strong HSTS policy.</u>

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	Description	Directive	Severity	
	No HSTS header found		High	
0	Ensure proper origin isolation with COOP			^
	The Cross-Origin-Opener-Policy (COOP) can be use	ad to isolate the ton-level	window from other documents such a	

The Cross-Origin-Opener-Policy (COOP) can be used to isolate the top-level window from other documents such as pop-ups. Learn more about deploying the COOP header.

Description	Directive	Severity
No COOP header found		High

GENERAL

Detected JavaScript libraries

Avoids deprecated APIs

Avoids third-party cookies

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

Name	Version
jQuery	3.5.1

PASSED AUDITS (11)	Hide
Uses HTTPS	^

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding mixed content, where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS prevents intruders from tampering with or passively listening in on the communications between your app and your

users, and is a prerequisite for HTTP/2 and many new web platform APIs. Learn more about HTTPS.

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

Third-party cookies may be blocked in some contexts. Learn more about preparing for third-party cookie restrictions.

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Allows users to paste into input fields Preventing input pasting is a bad practice for the UX, and weakens security by blocking password managers. Learn more about user-friendly input fields. Avoids requesting the geolocation permission on page load Users are mistrustful of or confused by sites that request their location without context. Consider tying the request to a user action instead. Learn more about the geolocation permission. Avoids requesting the notification permission on page load Users are mistrustful of or confused by sites that request to send notifications without context. Consider tying the request to user gestures instead. Learn more about responsibly getting permission for notifications. Displays images with correct aspect ratio ^ Image display dimensions should match natural aspect ratio. Learn more about image aspect ratio. Serves images with appropriate resolution Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. Learn how to provide responsive images. No browser errors logged to the console Errors logged to the console indicate unresolved problems. They can come from network request failures and other browser concerns. Learn more about this errors in console diagnostic audit No issues in the Issues panel in Chrome Devtools Issues logged to the Issues panel in Chrome Devtools indicate unresolved problems. They can come from network request failures, insufficient security controls, and other browser concerns. Open up the Issues panel in Chrome DevTools for more details on each issue. 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. Learn more about source maps. NOT APPLICABLE (3) Hide Redirects HTTP traffic to HTTPS

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Make sure that you redirect all HTTP traffic to HTTPS in order to enable secure web features for all your users. <u>Learn</u> more.

Mitigate clickjacking with XFO or CSP

The X-Frame-Options (XFO) header or the frame-ancestors directive in the Content-Security-Policy (CSP) header control where a page can be embedded. These can mitigate clickjacking attacks by blocking some or all sites from embedding the page. <u>Learn more about mitigating clickjacking</u>.

Document uses legible font sizes

Font sizes less than 12px are too small to be legible and require mobile visitors to "pinch to zoom" in order to read. Strive to have >60% of page text $\ge 12px$. Learn more about legible font sizes.



SFO

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

CONTENT BEST PRACTICES

Document does not have a meta description

Meta descriptions may be included in search results to concisely summarize page content. <u>Learn more about the meta description</u>.

Format your HTML in a way that enables crawlers to better understand your app's content.

CRAWLING AND INDEXING

▲ Links are not crawlable

Search engines may use href attributes on links to crawl websites. Ensure that the href attribute of anchor elements links to an appropriate destination, so more pages of the site can be discovered. <u>Learn how to make links crawlable</u>

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a.paginate_button.current	
a.paginate_button	
opear in search results, crawlers need access to your app. ITIONAL ITEMS TO MANUALLY CHECK (1)	Hid

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

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PASSED AUDITS (5) Hide Page isn't blocked from indexing Search engines are unable to include your pages in search results if they don't have permission to crawl them. Learn more about crawler directives. Document has a <title> element The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. Learn more about document titles. Page has successful HTTP status code Pages with unsuccessful HTTP status codes may not be indexed properly. Learn more about HTTP status codes. Links have descriptive text ^ Descriptive link text helps search engines understand your content. Learn how to make links more accessible. Document has a valid hrefland hreflang links tell search engines what version of a page they should list in search results for a given language or region. Learn more about hreflang. NOT APPLICABLE (3) 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 about robots.txt. Image elements have [alt] attributes Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. Learn more about the alt attribute. Document has a valid rel=canonical Canonical links suggest which URL to show in search results. Learn more about canonical links.

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Captured at Aug 25, 2025, 11:25 AM GMT+2

Initial page load

Emulated Desktop with
Lighthouse 12.6.1

Custom throttling

Single page session

Using Chromium 139.0.0.0
with devtools

Generated by **Lighthouse** 12.6.1 | File an issue

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