















75

80



Performance

Accessibility

Best Practices

SEO

PWA



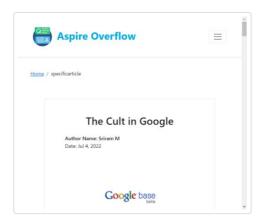
Performance

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

0-49

50-89

90-100



METRICS

▲ First Contentful Paint

5.8 s

First Contentful Paint marks the time at which the first text or image is painted. <u>Learn more</u>.

▲ Time to Interactive

7.1 s

Time to interactive is the amount of time it takes for the page to become fully interactive. <u>Learn more</u>.

Collapse view

Speed Index

5.8 s

Speed Index shows how quickly the contents of a page are visibly populated. <u>Learn more</u>.

Total Blocking Time

100 ms

Sum of all time periods between FCP and Time to Interactive, when task length exceeded 50ms, expressed in milliseconds. <u>Learn more</u>.

Largest Contentful Paint

7.1 s

Largest Contentful Paint marks the time at which the largest text or image is painted. <u>Learn more</u>

▲ Cumulative Layout Shift

0.3

Cumulative Layout Shift measures the movement of visible elements within the viewport. <u>Learn more</u>.



Show audits relevant to: All FCP TBT LCP CLS

OPPORTUNITIES

Opportunity Estimated Savings

▲ Enable text compression

4.94 s ^

Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. <u>Learn</u> <u>more</u>. [FCP] (LCP)

URL	Transfer Size	Potential Savings	
/vendor.js (localhost)	5,039.6 KiB	4,052.8 KiB	
/scripts.js (localhost)	1,066.6 KiB	776.5 KiB	
/main.js (localhost)	679.3 KiB	573.4 KiB	
/styles.css (localhost)	357.9 KiB	306.8 KiB	
/polyfills.js (localhost)	297.0 KiB	223.6 KiB	
/styles.js (localhost)	173.8 KiB	126.1 KiB	
/Article/GetArticleById?ArticleId=1 (localhost)	20.1 KiB	9.6 KiB	
/runtime.js (localhost)	6.5 KiB	4.8 KiB	

▲ Reduce unused JavaScript

2.96 s ^

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. <u>Learn more</u>. <u>[LCP]</u>

✓ Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
/vendor.js (localhost)	5,039.9 KiB	2,354.0 KiB
@ng-bootstrap/ng-bootstrap/fesm2015/ng-bootstrap.mjs	605.9 KiB	395.1 KiB
chart.js/dist/chart.esm.js	358.6 KiB	334.5 KiB

URL	Transfer Size	Potential Savings
@angular/core/fesm2015/core.mjs	1,128.5 KiB	330.2 KiB
@angular/animations/fesm2015/browser.mjs	164.3 KiB	141.8 KiB
@angular/cdk/fesm2015/overlay.mjs	133.1 KiB	93.7 KiB
/scripts.js (localhost)	1,066.9 KiB	680.2 KiB
datatables.net\js\jquery.dataTables.js	443.1 KiB	225.6 KiB
jquery\dist\jquery.js	279.9 KiB	200.3 KiB
bootstrap\dist\js\bootstrap.js	144.4 KiB	97.0 KiB
datatables.net\js\jquery.dataTables.min.js	88.2 KiB	73.4 KiB
jquery\dist\jquery.min.js	87.4 KiB	63.7 KiB
/main.js (localhost)	679.6 KiB	299.1 KiB
src/app/Shared Pages/register/register.component.html	18.4 KiB	18.4 KiB
src/app/User Pages/homepage/homepage.component.html	12.8 KiB	12.8 KiB
src/app/User Pages/create-article-page/create-article-page.component.html	10.6 KiB	10.6 KiB
src/app/User Pages/my-articles/my-articles.component.html	9.4 KiB	9.4 KiB
src/app/User Pages/update-article-page/update-article-page.component.html	9.2 KiB	9.2 KiB
/styles.js (localhost)	174.1 KiB	167.2 KiB
/node_modules/html-entities/lib/named-references.js	68.4 KiB	68.4 KiB
/node_modules/webpack-dev-server/client/modules/logger/index.js	26.8 KiB	26.8 KiB
/node_modules/events/events.js	15.1 KiB	15.1 KiB
/node_modules/webpack-dev-server/client/index.js	8.3 KiB	8.3 KiB
/node_modules/html-entities/lib/index.js	8.0 KiB	8.0 KiB
standard/ckeditor.js (cdn.ckeditor.com)	190.8 KiB	165.8 KiB
/polyfills.js (localhost)	297.3 KiB	65.1 KiB
node_modules/zone.js/fesm2015/zone.js	124.9 KiB	25.6 KiB
node_modules/events/events.js	14.8 KiB	11.5 KiB
node_modules/webpack-dev-server/client/modules/logger/index.js	26.3 KiB	7.7 KiB
node_modules/html-entities/lib/index.js	7.8 KiB	5.5 KiB
node_modules/webpack-dev-server/client/overlay.js	6.7 KiB	5.2 KiB

▲ Minify JavaScript 2.26 s ^

URL	Transfer Size	Potential Savings
/vendor.js (localhost)	5,039.9 KiB	2,092.2 KiB
/scripts.js (localhost)	1,066.9 KiB	508.6 KiB
/polyfills.js (localhost)	297.3 KiB	98.8 KiB
/main.js (localhost)	679.6 KiB	74.7 KiB
/styles.js (localhost)	174.1 KiB	36.4 KiB
/runtime.js (localhost)	6.8 KiB	3.8 KiB

Eliminate render-blocking resources

0.72 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)

✓ Show 3rd-party resources (2)

URL	Transfer Size	Potential Savings
css/font-awesome.min.css (cdnjs.cloudflare.com)	6.2 KiB	280 ms
/styles.css (localhost)	358.2 KiB	1,480 ms
standard/ckeditor.js (cdn.ckeditor.com)	190.8 KiB	1,150 ms

Reduce unused CSS

0.37 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

URL	Transfer Size	Potential Savings
/styles.css (localhost)	358.2 KiB	345.5 KiB

Remove duplicate modules in JavaScript bundles

0.25 s ^

Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity.
(TBT)

Source	Transfer Size	Potential Savings
node_modules/html-entities		150.75 KiE
/polyfills.js (localhost)	75.50 KiB	
/vendor.js (localhost)	73.85 KiB	
/styles.js (localhost)	76.90 KiB	
node_modules/webpack-dev-server		119.00 KiE
/polyfills.js (localhost)	59.60 KiB	
/vendor.js (localhost)	58.30 KiB	
/styles.js (localhost)	60.70 KiB	
node_modules/events		29.60 KiE
/polyfills.js (localhost)	14.85 KiB	
/vendor.js (localhost)	14.50 KiB	
/styles.js (localhost)	15.10 KiB	
node_modules/ansi-html-community		8.45 Kil
/polyfills.js (localhost)	4.25 KiB	
/vendor.js (localhost)	4.15 KiB	
/styles.js (localhost)	4.30 KiB	
node_modules/webpack		2.75 Kil
/polyfills.js (localhost)	1.35 KiB	
/vendor.js (localhost)	1.35 KiB	
/styles.js (localhost)	1.40 KiB	

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

DIAGNOSTICS

▲ Serve static assets with an efficient cache policy — 9 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
/vendor.js (localhost)	None	5,040 KiB
/scripts.js (localhost)	None	1,067 KiB
/main.js (localhost)	None	680 KiB
/styles.css (localhost)	None	358 KiB
/polyfills.js (localhost)	None	297 KiB
/styles.js (localhost)	None	174 KiB
/assets/Logo.png (localhost)	None	24 KiB
/runtime.js (localhost)	None	7 KiB
standard/ckeditor.js (cdn.ckeditor.com)	7 d	191 KiB

▲ Ensure text remains visible during webfont load

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

URL Potential Savings

...fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com) 340 ms

▲ 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

img.article-img

data:image/jpg;base64,iVBORw0KG...

Large network payloads cost users real money and are highly correlated with long load times. Learn more. [CCP]

✓ Show 3rd-party resources (2)

URL	Transfer Size
/vendor.js (localhost)	5,039.9 KiB
/scripts.js (localhost)	1,066.9 KiB
/main.js (localhost)	679.6 KiB
/styles.css (localhost)	358.2 KiB
/polyfills.js (localhost)	297.3 KiB
standard/ckeditor.js (cdn.ckeditor.com)	190.8 KiB
/styles.js (localhost)	174.1 KiB
fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com)	76.1 KiB
/assets/Logo.png (localhost)	24.5 KiB
/Article/GetArticleById?ArticleId=1 (localhost)	20.3 KiB

O Avoid chaining critical requests — 8 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: 1,720 ms

Initial Navigation

/specificarticle/1 (localhost)

- ...css/bootstrap.min.css (localhost) 20 ms, 0.00 KiB
- ...css/font-awesome.min.css (cdnjs.cloudflare.com)
 - ...fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com) 340 ms, 76.08 KiB

/styles.css (localhost) - 10 ms, 358.22 KiB

...standard/ckeditor.js (cdn.ckeditor.com) - 480 ms, 190.83 KiB

/runtime.js (localhost) - 20 ms, 6.82 KiB

/polyfills.js (localhost) - 30 ms, 297.30 KiB

/vendor.js (localhost) - 240 ms, 5,039.86 KiB

/main.js (localhost) - 80 ms, 679.59 KiB

O User Timing marks and measures — 33 user timings

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>.

Name	Туре	Start Time	Duration
Zone	Measure	1,026.18 ms	0.22 ms
Zone:ZoneAwarePromise	Measure	1,026.54 ms	0.46 ms
Zone:toString	Measure	1,027.09 ms	0.02 ms
Zone:util	Measure	1,027.2 ms	0.3 ms
Zone:timers	Measure	1,027.59 ms	0.11 ms
Zone:requestAnimationFrame	Measure	1,027.78 ms	0.02 ms
Zone:EventTarget	Measure	1,027.88 ms	0.72 ms
Zone:MutationObserver	Measure	1,028.59 ms	0.61 ms
Zone:IntersectionObserver	Measure	1,029.3 ms	0.21 ms
Zone:FileReader	Measure	1,029.52 ms	0.08 ms
Zone:on_property	Measure	1,029.67 ms	14.73 ms
Zone:customElements	Measure	1,044.42 ms	0.18 ms
Zone:XHR	Measure	1,044.6 ms	0.2 ms
Zone:geolocation	Measure	1,044.85 ms	0.05 ms
Zone:PromiseRejectionEvent	Measure	1,044.96 ms	0.04 ms
Zone	Mark	1,026.21 ms	
Zone:ZoneAwarePromise	Mark	1,026.55 ms	
Zone:toString	Mark	1,027.09 ms	
Zone:util	Mark	1,027.2 ms	

Name	Туре	Start Time Duration	
Zone:legacy	Mark	1,027.52 ms	
Zone:queueMicrotask	Mark	1,027.55 ms	
Zone:timers	Mark	1,027.6 ms	
Zone:requestAnimationFrame	Mark	1,027.78 ms	
Zone:blocking	Mark	1,027.83 ms	
Zone:EventTarget	Mark	1,027.89 ms	
Zone:MutationObserver	Mark	1,028.59 ms	
Zone:IntersectionObserver	Mark	1,029.3 ms	
Zone:FileReader	Mark	1,029.52 ms	
Zone:on_property	Mark	1,029.67 ms	
Zone:customElements	Mark	1,044.43 ms	
Zone:XHR	Mark	1,044.61 ms	
Zone:geolocation	Mark	1,044.86 ms	
Zone:PromiseRejectionEvent	Mark	1,044.96 ms	

O Keep request counts low and transfer sizes small — 16 requests • 7,942 KiB

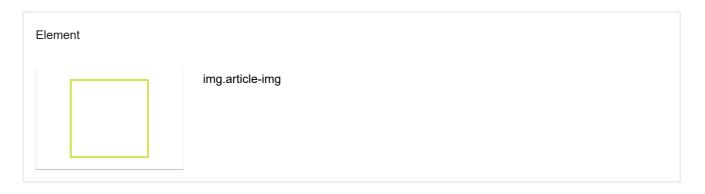
To set budgets for the quantity and size of page resources, add a budget.json file. <u>Learn more</u>.

Resource Type	Requests	Transfer Size
Total	16	7,942.1 KiB
Script	7	7,455.4 KiB
Stylesheet	3	364.4 KiB
Font	1	76.1 KiB
Image	2	24.5 KiB

Resource Type	Requests	Transfer Size
Other	2	20.3 KiB
Document	1	1.4 KiB
Media	0	0.0 KiB
Third-party	4	273.1 KiB

O Largest Contentful Paint element — 1 element found

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



O Avoid large layout shifts — 5 elements found

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



Element		CLS Contribution
	button	0.005
	hr	0.001

O 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. Learn more (TBT)

URL	Start Time	Duration
/styles.js (localhost)	7,135 ms	146 ms
/runtime.js (localhost)	991 ms	63 ms
Unattributable	199 ms	59 ms

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

PASSED AUDITS (24)

Properly size images — Potential savings of 23 KiB

Serve images that are appropriately-sized to save cellular data and improve load time. <u>Learn more</u>.

	URL	Resource Size	Potential Savings
img. Log olm g	/assets/Logo.png (localhost)	24.2 KiB	23.5 KiB

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 Minifying CSS files can reduce network payload sizes. Learn more. FCP [LCP] Efficiently encode images Optimized images load faster and consume less cellular data. Learn more. Serve images in next-gen formats — Potential savings of 13 KiB Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. Learn more. Resource Potential **URL** Size Savings img. Log 24.2 KiB 13.0 KiB olm /assets/Logo.png (localhost) g Preconnect to required origins — Potential savings of 80 ms Consider adding 'preconnect' or 'dns-prefetch' resource hints to establish early connections to important third-party origins. Learn more. [FCP] [LCP] **URL Potential Savings** https://localhost:7197 80 ms Initial server response time was short — Root document took 0 ms Keep the server response time for the main document short because all other requests depend on it. Learn more. [FCP] LCP URL Time Spent

,	,	
	URL Time Spe	nt
	/specificarticle/1 (localhost) 0 r	ns
	Avoid multiple page redirects	^
	Redirects introduce additional delays before the page can be loaded. Learn more. FCP LCP	
С	Preload key requests	^
	Consider using ` <link rel="preload"/> ` to prioritize fetching resources that are currently requested later in page load. <u>Learn more</u> . <u>FCP</u> <u>LCP</u>	
	Use HTTP/2	^

HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn more.

Use video formats for animated content

Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for animations and PNG/WebP for static images instead of GIF to save network bytes. <u>Learn more</u> (LCP)

Avoid serving legacy JavaScript to modern browsers — Potential savings of 27 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 (TBT)</u>

URL	Potenti	al Savings
/scripts.js (localhost)		26.1 KiB
scripts.js:117	Array.isArray	
scripts.js:117	Array.prototype.includes	
scripts.js:31709	@babel/plugin-transform-classes	
/styles.js (localhost)		0.2 KiB
styles.js:944	@babel/plugin-transform-classes	
/polyfills.js (localhost)		0.2 KiB
polyfills.js:1054	@babel/plugin-transform-classes	
/vendor.js (localhost)		0.2 KiB

URL Potential Savings

vendor.js:25705
@babel/plugin-transform-classes

Preload Largest Contentful Paint image

Preload the image used by the LCP element in order to improve your LCP time. Learn more. [LCP]

Avoids an excessive DOM size — 164 elements

A large DOM will increase memory usage, cause longer <u>style calculations</u>, and produce costly <u>layout reflows</u>. <u>Learn more</u>. <u>TBT</u>

Statistic	Element	Value
Total DOM Elements		164
Maximum DOM Depth	a.dropdown-item	13
Maximum Child Elements	div	33

JavaScript execution time — 0.3 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
/styles.js (localhost)	238 ms	222 ms	2 ms
/specificarticle/1 (localhost)	205 ms	1 ms	1 ms
Unattributable	121 ms	4 ms	0 ms
/polyfills.js (localhost)	56 ms	27 ms	0 ms
standard/ckeditor.js (cdn.ckeditor.com)	52 ms	18 ms	12 ms

Minimizes main-thread work — 0.7 s

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

Category	Time Spent
Script Evaluation	299 ms
Other	182 ms
Style & Layout	125 ms
Parse HTML & CSS	58 ms
Script Parsing & Compilation	37 ms
Rendering	22 ms
Garbage Collection	3 ms

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

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

Third-Party	Transfer Size	Main-Thread Blocking Time
Cloudflare CDN	82 KiB	0 ms
fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com)	76 KiB	0 ms
css/font-awesome.min.css (cdnjs.cloudflare.com)	6 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> [TBT]

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.

Element

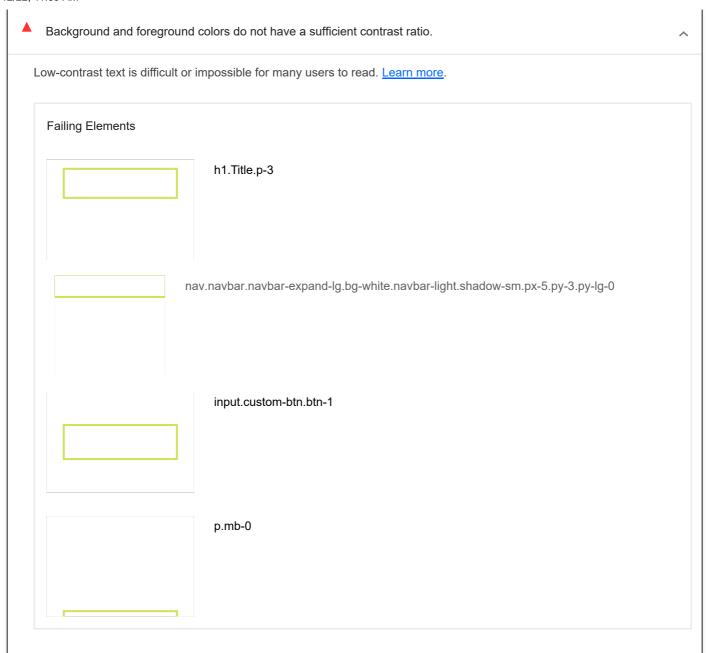
Element img.article-img	
Uses passive listeners to improve scrolling performance	
Consider marking your touch and wheel event listeners as `passive` to improve your page's scroll performance. <u>Learn</u> more.	
Avoids document.write()	
For users on slow connections, external scripts dynamically injected via `document.write()` can delay page load by tens of seconds. <u>Learn more</u> .	
O Avoid non-composited animations	
Animations which are not composited can be janky and increase CLS. <u>Learn more</u> 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> . <u>TBT</u>	<u>/</u> _
Avoids unload event listeners	
The `unload` event does not fire reliably and listening for it can prevent browser optimizations like the Back-Forward Cache	



Accessibility

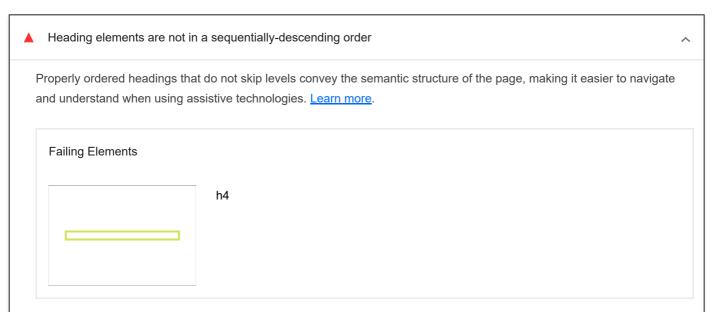
These checks highlight opportunities to improve the accessibility of your web app. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

CONTRAST



These are opportunities to improve the legibility of your content.

NAVIGATION



These are opportunities to improve keyboard navigation in your application.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Hide

The page has a logical tab order	^
Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. Learn more.	
Interactive controls are keyboard focusable	^
Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn more</u> .	
Interactive elements indicate their purpose and state	^
Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. <u>Learn more</u> .	
The user's focus is directed to new content added to the page	^
If new content, such as a dialog, is added to the page, the user's focus is directed to it. 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. <u>Learn more</u> .	
Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
O Custom controls have ARIA roles	^
Custom interactive controls have appropriate ARIA roles. <u>Learn more</u> .	
Visual order on the page follows DOM order	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more</u> .	
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	^

than 5.

a web page. Learn more.

Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology. Learn more.

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

PASSED AUDITS (16) Hide [aria-*] attributes match their roles Each ARIA `role` supports a specific subset of `aria-*` attributes. Mismatching these invalidates the `aria-*` attributes. Learn more. [aria-hidden="true"] is not present on the document <body> Assistive technologies, like screen readers, work inconsistently when 'aria-hidden="true" is set on the document '<body>'. Learn more. [aria-*] attributes have valid values Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn more. [aria-*] attributes are valid and not misspelled Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more. Buttons have an accessible name When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for users who rely on screen readers. Learn more. 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. Form elements have associated labels Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more.

[user-scalable="no"] is not used in the <meta name="viewport"> element and the [maximum-scale] attribute is not less

Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the contents of

NOT APPLICABLE (26)

[accesskey] values are unique

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. Document has a <title> element The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. Learn more. <html> element has a [lang] attribute If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might not announce the page's text correctly. Learn more. <html> element has a valid value for its [lang] attribute Specifying a valid BCP 47 language helps screen readers announce text properly. Learn more. Links have a discernible name Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. Learn more. Lists contain only <1i> 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. Learn 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. Learn more. 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.

20/32

Hide

Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. <u>Learn</u> more.
O button, link, and menuitem elements have accessible names
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
O [aria-hidden="true"] elements do not contain focusable descendents
Focusable descendents within an `[aria-hidden="true"]` element prevent those interactive elements from being available to users of assistive technologies like screen readers. <u>Learn more</u> .
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> .
O [role]s are contained by their required parent element
Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions. <u>Learn more</u> .
O [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, for users who rely on screen readers. <u>Learn more</u> .	making it unusable
ARIA tooltip elements have accessible names	^
When an element doesn't have an accessible name, screen readers announce it with a generic name, m for users who rely on screen readers. <u>Learn more</u> .	aking it unusable
ARIA treeitem elements have accessible names	^
When an element doesn't have an accessible name, screen readers announce it with a generic name, m for users who rely on screen readers. <u>Learn more</u> .	aking it unusable
<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 or</td><td>utput. <u>Learn more</u>.</td></tr><tr><td>Definition list items are wrapped in <d1> elements</td><td>^</td></tr><tr><td>Definition list items (`<dt>` and `<dd>`) must be wrapped in a parent `<dl>` element to ensure that screer properly announce them. <u>Learn more</u>.</td><td>n readers can</td></tr><tr><td>[id] attributes on active, focusable elements are unique</td><td>^</td></tr><tr><td>All focusable elements must have a unique `id` to ensure that they're visible to assistive technologies. Le</td><td>arn more.</td></tr><tr><td>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 to more.</td><td>echnologies. <u>Learn</u></td></tr><tr><td>No form fields have multiple labels</td><td>^</td></tr><tr><td>Form fields with multiple labels can be confusingly announced by assistive technologies like screen readelither the first, the last, or all of the labels. <u>Learn more</u>.</td><td>ers which use</td></tr><tr><td><frame> or <iframe> elements have a title</td><td>^</td></tr><tr><td>Screen reader users rely on frame titles to describe the contents of frames. <u>Learn more</u>.</td><td></td></tr><tr><td><pre>O <input type="image"> elements have [alt] text</pre></td><td>^</td></tr><tr><td></td><td></td></tr></tbody></table></script></dd></dt></dl>	

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. 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. O <object> elements have alternate text Screen readers cannot translate non-text content. Adding alternate text to `<object>` elements helps screen readers convey meaning to users. Learn more. 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. Learn more. 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. Learn more. [lang] attributes have a valid value Specifying a valid BCP 47 language on elements helps ensure that text is pronounced correctly by a screen reader. Learn more. <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.



Best Practices

TRUST AND SAFETY

▲ Does not use HTTPS — 1 insecure request found

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding <u>mixed content</u>, where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS prevents intruders from tampering with or passively listening in on the communications between your app and your users, and is a prerequisite for HTTP/2 and many new web platform APIs. <u>Learn more</u>.

Insecure URL

unsafe:data:image/jpg;base64,

Allowed

Ensure CSP is effective against XSS attacks

A strong Content Security Policy (CSP) significantly reduces the risk of cross-site scripting (XSS) attacks. Learn more

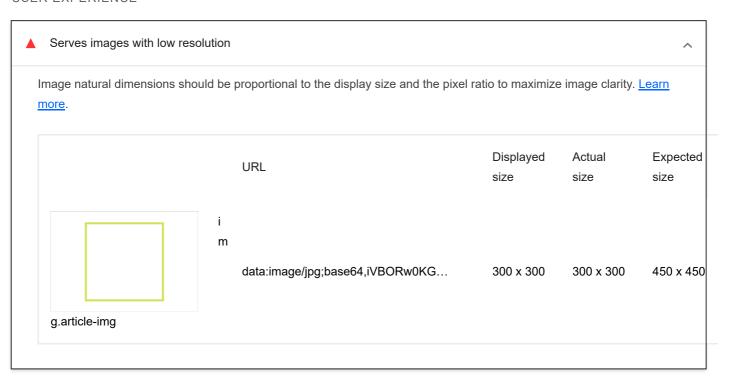
Description

Directive

Severity

USER EXPERIENCE

No CSP found in enforcement mode



GENERAL



High

Source	Description
unsafe:data:i mage/jpg;bas e64,:1	Failed to load resource: net::ERR_UNKNOWN_URL_SCHEME
1:1	Refused to apply style from 'http://localhost:4200/bootstrap/css/bootstrap.min.css' because its MIME type ('text/html') is not a supported stylesheet MIME type, and strict MIME checking is enabled.
1:1	Refused to apply style from 'http://localhost:4200/bootstrap/css/bootstrap.min.css' because its MIME type ('text/html') is not a supported stylesheet MIME type, and strict MIME checking is enabled.

Detected JavaScript libraries

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

Name	Version
Bootstrap	5.1.3
jQuery	3.6.0
Angular	13.3.11

▲ Missing source maps for large first-party JavaScript

Source maps translate minified code to the original source code. This helps developers debug in production. In addition, Lighthouse is able to provide further insights. Consider deploying source maps to take advantage of these benefits. <u>Learn more</u>.

✓ Show 3rd-party resources (1)

URL	Map URL
standard/ckeditor.js (cdn.ckeditor.com)	
Large JavaScript file is missing a source map	
/runtime.js (localhost)	/runtime.js.map (localhost)
Warning: missing 3 items in `.sourcesContent`	
/vendor.js (localhost)	/vendor.js.map (localhost)

URL	Map URL
/styles.js (localhost)	/styles.js.map (localhost)
/scripts.js (localhost)	/scripts.js.map (localhost)
/polyfills.js (localhost)	/polyfills.js.map (localhost)
/main.js (localhost)	/main.js.map (localhost)

PASSED AUDITS (9) Hide

SSED AUDITS (9)	Hid
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 action instead. <u>Learn more</u> .	request to a user
Avoids requesting the notification permission on page load	^
Users are mistrustful of or confused by sites that request to send notifications without context. Consider ty user gestures instead. <u>Learn more</u> .	ring the request to
Avoids front-end JavaScript libraries with known security vulnerabilities	^
Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited Learn more .	by attackers.
Allows users to paste into password fields	^
Preventing password pasting undermines good security policy. <u>Learn more</u> .	
Displays images with correct aspect ratio	^
Image display dimensions should match natural aspect ratio. <u>Learn more</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 done with a ` <meta/> ` tag in the first 1024 bytes of	the HTML or in

the Content-Type HTTP response header. Learn more.

Avoids deprecated APIs

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

No 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.

NOT APPLICABLE (1)

Fonts with font-display: optional are preloaded

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



SEO

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. Learn more.

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 More</u>

Uncrawlable Link	
a.dropdown-toggle.dropbtn	
a.dropdown-toggle.dropbtn	
a.dropdown	
	a
	a.text-white.border-bottom
	a.text-white
	a.text-white
	a.text-white
	a.text-white.border-bottom

To appear in search results, crawlers need access to your app.

O Structured data is valid	^
Run the <u>Structured Data Testing Tool</u> and the <u>Structured Data Linter</u> to validate structured data. <u>Learn more</u> .	
Run these additional validators on your site to check additional SEO best practices.	
PASSED AUDITS (8)	Hide
Has a <meta name="viewport"/> tag with width or initial-scale	^
A ` <meta name="viewport"/> ` not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond</u> to user input. <u>Learn more</u> . (TBT)	l delay
Document has a <title> element</td><td>^</td></tr><tr><td>The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if page is relevant to their search. <u>Learn more</u>.</td><td>a</td></tr><tr><td>Page has successful HTTP status code</td><td>^</td></tr><tr><td>Pages with unsuccessful HTTP status codes may not be indexed properly. <u>Learn more</u>.</td><td></td></tr><tr><td>Links have descriptive text</td><td>^</td></tr><tr><td>Descriptive link text helps search engines understand your content. <u>Learn more</u>.</td><td></td></tr><tr><td>Page isn't blocked from indexing</td><td>^</td></tr><tr><td>Search engines are unable to include your pages in search results if they don't have permission to crawl them. Learn</td><td>more.</td></tr><tr><td>Image elements have [alt] attributes</td><td>^</td></tr><tr><td>Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empattribute. <u>Learn more</u>.</td><td>ty alt</td></tr><tr><td>Document has a valid hreflang</td><td>^</td></tr><tr><td>hreflang links tell search engines what version of a page they should list in search results for a given language or reginglearn more.</td><td>on.</td></tr><tr><td>Document avoids plugins</td><td>^</td></tr><tr><td>Search engines can't index plugin content, and many devices restrict plugins or don't support them. Learn more.</td><td></td></tr></tbody></table></title>	

OT APPLICABLE (4)	Hide
o 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 craw indexed. Learn more.	vled or
O Document has a valid rel=canonical	^
Canonical links suggest which URL to show in search results. <u>Learn more</u> .	
O 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 rea have >60% of page text ≥12px. <u>Learn more</u> .	d. Strive to
Tap targets are sized appropriately	^
Interactive elements like buttons and links should be large enough (48x48px), and have enough space around the easy enough to tap without overlapping onto other elements. Learn more.	em, to be
PWA	
These checks validate the aspects of a Progressive Web App. <u>Learn more</u> .	
INSTALLABLE	
▲ Web app manifest or service worker do not meet the installability requirements — 1 reason	^
Service worker is the technology that enables your app to use many Progressive Web App features, such as offli homescreen, and push notifications. With proper service worker and manifest implementations, browsers can proprompt users to add your app to their homescreen, which can lead to higher engagement. Learn more.	
Failure reason	

Page has no manifest <link> URL

▲ 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 add to homescreen, and push notifications. <u>Learn more</u> .	offline,
▲ 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. more.	<u>Learn</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. <u>Learn more</u> .	
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 mol screens. <u>Learn more</u> .	oile
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 millised</u> to user input. <u>Learn more</u> . <u>TBT</u>	cond delay
▲ 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-touchmust point to a non-transparent 192px (or 180px) square PNG. <u>Learn More</u> .	icon`. It
▲ 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 or Learn more.	ı a device.
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. <u>Learn more</u> .	
Page transitions don't feel like they block on the network	^

Transitions should feel snappy as you tap around, even on a slow network. This experience is key to a user's perception of performance. <u>Learn more</u>.

O Each page has a URL

Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on social media. <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.

Captured at Jul 12, 2022, 11:17 AM GMT+5:30 Initial page load Emulated Desktop with Lighthouse 9.6.1 Custom throttling

Single page load

Using Chromium 103.0.0.0 with devtools

Generated by Lighthouse 9.6.1 | File an issue