



Accessibility



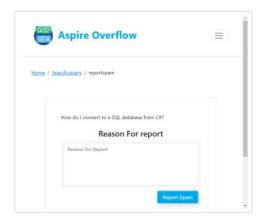


Performance

Performance

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





METRICS Expand view

▲ First Contentful Paint

5.7 s

Speed Index

5.7 s

▲ Largest Contentful Paint

7.0 s

▲ Time to Interactive

7.2 s

Total Blocking Time

50 ms

Cumulative Layout Shift

0.008



Show audits relevant to: All FCP TBT LCP CLS

OPPORTUNITIES

Opportunity Estimated Savings

▲ Enable text compression 5.04 s ^

Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. $\underline{\text{Learn}}$ $\underline{\text{more}}$. $\underline{\text{FCP}}$ $\underline{\text{LCP}}$

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
/runtime.js (localhost)	6.5 KiB	4.8 KiB

▲ Reduce unused JavaScript

3.12 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	2,474.0 KiB
@ng-bootstrap/ng-bootstrap/fesm2015/ng-bootstrap.mjs	605.9 KiB	395.1 KiB
@angular/core/fesm2015/core.mjs	1,128.5 KiB	378.4 KiB
chart.js/dist/chart.esm.js	358.6 KiB	334.5 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

URL	Transfer Size	Potential Savings
/main.js (localhost)	679.6 KiB	305.3 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	66.2 KiB
node_modules/zone.js/fesm2015/zone.js	124.9 KiB	26.8 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 2.24 s ヘ

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

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

URL	Transfer Size	Potential Savings
/styles.js (localhost)	174.1 KiB	36.4 KiB
/runtime.js (localhost)	6.8 KiB	3.8 KiB

Eliminate render-blocking resources

0.61 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/bootstrap.min.css (localhost)	0.0 KiB	80 ms
css/font-awesome.min.css (cdnjs.cloudflare.com)	6.2 KiB	240 ms
/styles.css (localhost)	358.2 KiB	1,440 ms
standard/ckeditor.js (cdn.ckeditor.com)	190.8 KiB	1,000 ms

Reduce unused CSS 0.4 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	346.1 KiB

Remove duplicate modules in JavaScript bundles

0.28 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 KiB

Transfer Size	Potential Savings
75.50 KiB	
76.90 KiB	
73.85 KiB	
	119.00 KiB
59.60 KiB	
60.70 KiB	
58.30 KiB	
	29.60 KiB
14.85 KiB	
15.10 KiB	
14.50 KiB	
	8.45 KiB
4.25 KiB	
4.30 KiB	
4.15 KiB	
	2.75 KiB
1.35 KiB	
1.40 KiB	
1.35 KiB	
	75.50 KiB 76.90 KiB 73.85 KiB 59.60 KiB 60.70 KiB 58.30 KiB 14.85 KiB 15.10 KiB 14.50 KiB 4.25 KiB 4.30 KiB 4.15 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. <u>Learn more</u> .			
		✓ Show 3rd-party	resources (1)
	URL	Cache TTL	Transfer Size
	/vendor.js (localhost)	None	5,040 KiB
	/scripts.js (localhost)	None	1,067 KiB

URL	Cache TTL	Transfer Size
/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. <u>Learn more</u>. FCP <u>LCP</u>

URL Potential Savings

...fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com) 170 ms

▲ Avoid enormous network payloads — Total size was 7,924 KiB

Large network payloads cost users real money and are highly correlated with long load times. <u>Learn more</u>. <u>[LCP]</u>

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

URL	Transfer Size
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
/runtime.js (localhost)	6.8 KiB

O Avoid chaining critical requests — 9 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: 1,250 ms

Initial Navigation

/ReportSpam/1 (localhost)

- ...css/bootstrap.min.css (localhost) 10 ms, 0.00 KiB
- ...css/font-awesome.min.css (cdnjs.cloudflare.com)
 - ...fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com) 170 ms, 76.09 KiB

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

- ...css/bootstrap.min.css (localhost) 20 ms, 0.00 KiB
- ...standard/ckeditor.js (cdn.ckeditor.com) 80 ms, 190.83 KiB

/runtime.js (localhost) - 10 ms, 6.82 KiB

/polyfills.js (localhost) - 20 ms, 297.30 KiB

/vendor.js (localhost) - 150 ms, 5,039.86 KiB

/main.js (localhost) - 50 ms, 679.59 KiB

User Timing marks and measures — 36 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	514.3 ms	0.3 ms

Name	Туре	Start Time	Duration
Zone:ZoneAwarePromise	Measure	514.61 ms	0.49 ms
Zone:toString	Measure	515.09 ms	0.11 ms
Zone:util	Measure	515.19 ms	0.71 ms
Zone:legacy	Measure	515.94 ms	0.16 ms
Zone:queueMicrotask	Measure	516 ms	0.11 ms
Zone:timers	Measure	516.07 ms	0.43 ms
Zone:requestAnimationFrame	Measure	516.41 ms	0.19 ms
Zone:blocking	Measure	516.58 ms	0.22 ms
Zone:EventTarget	Measure	516.7 ms	1 ms
Zone:MutationObserver	Measure	517.65 ms	0.25 ms
Zone:IntersectionObserver	Measure	517.83 ms	0.18 ms
Zone:FileReader	Measure	517.93 ms	0.17 ms
Zone:on_property	Measure	518.02 ms	25.48 ms
Zone:customElements	Measure	543.52 ms	0.38 ms
Zone:XHR	Measure	543.8 ms	0.4 ms
Zone:geolocation	Measure	544.1 ms	0.2 ms
Zone:PromiseRejectionEvent	Measure	544.22 ms	0.08 ms
Zone	Mark	514.32 ms	
Zone:ZoneAwarePromise	Mark	514.62 ms	
Zone:toString	Mark	515.09 ms	
Zone:util	Mark	515.2 ms	
Zone:legacy	Mark	515.95 ms	

Name Type Start Time Duration Zone:queueMicrotask Mark 516 ms Zone:timers Mark 516.08 ms Zone:requestAnimationFrame Mark 516.42 ms Zone:blocking Mark 516.58 ms Zone:EventTarget Mark 516.71 ms Zone:MutationObserver Mark 517.65 ms Zone:IntersectionObserver Mark 517.83 ms Zone:FileReader Mark 517.94 ms Zone:on_property Mark 518.02 ms Zone:customElements Mark 543.53 ms Zone:XHR Mark 543.8 ms			
Zone:timers Mark 516.08 ms Zone:requestAnimationFrame Mark 516.42 ms Zone:blocking Mark 516.58 ms Zone:EventTarget Mark 516.71 ms Zone:MutationObserver Mark 517.65 ms Zone:IntersectionObserver Mark 517.83 ms Zone:FileReader Mark 517.94 ms Zone:on_property Mark 518.02 ms Zone:customElements Mark 543.53 ms Zone:XHR Mark 543.8 ms	Name	Туре	Start Time Duration
Zone:requestAnimationFrame Mark 516.42 ms Zone:blocking Mark 516.58 ms Zone:EventTarget Mark 516.71 ms Zone:MutationObserver Mark 517.65 ms Zone:IntersectionObserver Mark 517.83 ms Zone:FileReader Mark 517.94 ms Zone:on_property Mark 518.02 ms Zone:customElements Mark 543.53 ms Zone:XHR Mark 543.8 ms	Zone:queueMicrotask	Mark	516 ms
Zone:Blocking Mark 516.58 ms Zone:EventTarget Mark 516.71 ms Zone:MutationObserver Mark 517.65 ms Zone:IntersectionObserver Mark 517.83 ms Zone:FileReader Mark 517.94 ms Zone:on_property Mark 518.02 ms Zone:customElements Mark 543.53 ms Zone:XHR Mark 543.8 ms	Zone:timers	Mark	516.08 ms
Zone:EventTarget Mark 516.71 ms Zone:MutationObserver Mark 517.65 ms Zone:IntersectionObserver Mark 517.83 ms Zone:FileReader Mark 517.94 ms Zone:on_property Mark 518.02 ms Zone:customElements Mark 543.53 ms Zone:XHR Mark 543.8 ms	Zone:requestAnimationFrame	Mark	516.42 ms
Zone:MutationObserver Mark 517.65 ms Zone:IntersectionObserver Mark 517.83 ms Zone:FileReader Mark 517.94 ms Zone:on_property Mark 518.02 ms Zone:customElements Mark 543.53 ms Zone:XHR Mark 543.8 ms	Zone:blocking	Mark	516.58 ms
Zone:IntersectionObserver Mark 517.83 ms Zone:FileReader Mark 517.94 ms Zone:on_property Mark 518.02 ms Zone:customElements Mark 543.53 ms Zone:XHR Mark 543.8 ms	Zone:EventTarget	Mark	516.71 ms
Zone:FileReader Mark 517.94 ms Zone:on_property Mark 518.02 ms Zone:customElements Mark 543.53 ms Zone:XHR Mark 543.8 ms	Zone:MutationObserver	Mark	517.65 ms
Zone:customElements Mark 518.02 ms Zone:XHR Mark 543.53 ms 543.8 ms	Zone:IntersectionObserver	Mark	517.83 ms
Zone:customElements Mark 543.53 ms Zone:XHR Mark 543.8 ms	Zone:FileReader	Mark	517.94 ms
Zone:XHR Mark 543.8 ms	Zone:on_property	Mark	518.02 ms
	Zone:customElements	Mark	543.53 ms
Zenavraala satian Mark 544.44 ma	Zone:XHR	Mark	543.8 ms
Zone:geolocation Mark 544.11 ms	Zone:geolocation	Mark	544.11 ms
Zone:PromiseRejectionEvent Mark 544.22 ms	Zone:PromiseRejectionEvent	Mark	544.22 ms

O Keep request counts low and transfer sizes small — 16 requests • 7,923 KiB

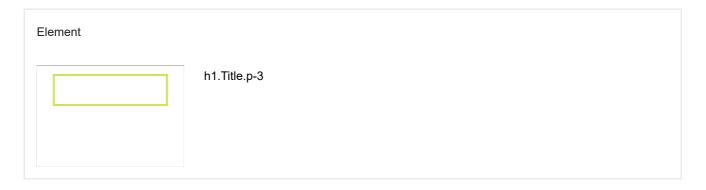
To set budgets for the quantity and size of page resources, add a budget.json file. <u>Learn more</u>.

Resource Type	Requests	Transfer Size
Total	16	7,923.2 KiB
Script	7	7,455.4 KiB
Stylesheet	4	364.4 KiB
Font	1	76.1 KiB
Image	1	24.5 KiB
Other	2	1.4 KiB

Resource Type	Requests	Transfer Size
Document	1	1.4 KiB
Media	0	0.0 KiB
Third-party	3	273.2 KiB

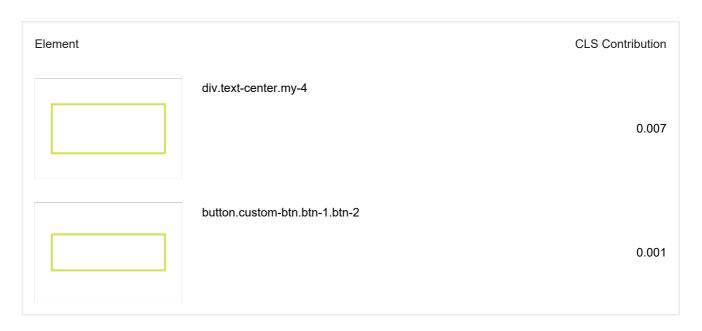
O Largest Contentful Paint element — 1 element found

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



O Avoid large layout shifts — 2 elements found

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



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
/vendor.js (localhost)	5,421 ms	136 ms
Unattributable	292 ms	57 ms
/scripts.js (localhost)	7,233 ms	54 ms

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

	Potential savings of 23 KiB		
Serve images that are appro	opriately-sized to save cellular data and improve load tim	e. <u>Learn more</u> .	
	URL	Resource Size	Potentia Savings
	img. Log	04.04%	00 F I/:
	olm /assets/Logo.png (localhost) g	24.2 KiB	23.5 KiE
Consider lazy-loading offscr	een and hidden images after all critical resources have fi	nished loading to lower ti	me to
	een and hidden images after all critical resources have fi	nished loading to lower ti	me to
Consider lazy-loading offscreinteractive. Learn more. Minify CSS	een and hidden images after all critical resources have fi	nished loading to lower ti	me to
interactive. Learn more. Minify CSS	een and hidden images after all critical resources have fi	nished loading to lower ti	me to
interactive. <u>Learn more</u> . Minify CSS		nished loading to lower ti	me to
interactive. Learn more. Minify CSS Minifying CSS files can redu Efficiently encode images		nished loading to lower ti	me to

and less data consumption. Learn more.

	URL		entia ving:
	img. Log olm /assets/Logo.png (localhost) g	24.2 KiB 13.0	0 KiE
Preconnect to required or	igins		
Consider adding `preconnect Learn more. FCP LCP	ct` or `dns-prefetch` resource hints to establish early conr	nections to important third-party	origi
Initial server response tim	ne was short — Root document took 0 ms		
Keep the server response tile	me for the main document short because all other reques	sts depend on it. <u>Learn more</u> . FC	CP
URL		Time S	Sper
/ReportSpam/1 (localhost)			0 m
Avoid multiple page redire	ects		
	ects nal delays before the page can be loaded. <u>Learn more</u> . F		
Redirects introduce addition Preload key requests Consider using ` <link rel="pre</td"/> <td></td> <td>CP (LCP)</td> <td>arn</td>		CP (LCP)	arn
Redirects introduce addition Preload key requests Consider using ` <link rel="pre</td"/> <td>nal delays before the page can be loaded. <u>Learn more</u>. Fr</td> <td>CP (LCP)</td> <td><u>arn</u></td>	nal delays before the page can be loaded. <u>Learn more</u> . Fr	CP (LCP)	<u>arn</u>
Redirects introduce addition Preload key requests Consider using ` <link 2<="" fcp="" http="" lcp="" rel="premore." td="" use=""/> <td>nal delays before the page can be loaded. <u>Learn more</u>. Fr</td> <td>CP (LCP) requested later in page load. Lea</td> <td>arn</td>	nal delays before the page can be loaded. <u>Learn more</u> . Fr	CP (LCP) requested later in page load. Lea	arn
Redirects introduce addition Preload key requests Consider using ` <link 2<="" fcp="" http="" lcp="" rel="premore." td="" use=""/> <td>eload>` to prioritize fetching resources that are currently s over HTTP/1.1, including binary headers and multiplexi</td> <td>CP (LCP) requested later in page load. Lea</td> <td>arn</td>	eload>` to prioritize fetching resources that are currently s over HTTP/1.1, including binary headers and multiplexi	CP (LCP) requested later in page load. Lea	arn
Redirects introduce addition Preload key requests Consider using ` <link 2="" animal="" are="" benefits="" fcp="" for="" for<="" formats="" gifs="" http="" inefficient="" large="" lcp="" many="" offers="" rel="premore." td="" use="" video=""/> <td>eload>` to prioritize fetching resources that are currently s over HTTP/1.1, including binary headers and multiplexi</td> <td>TEP LCP requested later in page load. Leann more. ebM videos for animations and</td> <td>arn</td>	eload>` to prioritize fetching resources that are currently s over HTTP/1.1, including binary headers and multiplexi	TEP LCP requested later in page load. Leann more. ebM videos for animations and	arn

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module/nomodule feature detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy browsers. Learn More TBT

URL		Potential 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 KiE
polyfills.js:1054	@babel/plugin-transform-classes	
vendor.js (localhost)		0.2 KiE
vendor.js:25705	<pre>@babel/plugin-transform-classes</pre>	

Preload Largest Contentful Paint image	^
Preload the image used by the LCP element in order to improve your LCP time. <u>Learn more</u> . <u>LCP</u>	
Avoids an excessive DOM size — 95 elements	^
A large DOM will increase memory usage, cause longer style calculations, and produce costly layout	t reflows. Learn more

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		95
Maximum DOM Depth	a.dropdown-item	13
	body	
Maximum Child Elements		7

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

URL	Total CPU Time	Script Evaluation	Script Parse
/vendor.js (localhost)	299 ms	253 ms	8 ms
/ReportSpam/1 (localhost)	204 ms	40 ms	0 ms
Unattributable	135 ms	4 ms	0 ms
/scripts.js (localhost)	55 ms	35 ms	13 ms

Minimizes main-thread work — 0.8 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	361 ms
Other	220 ms
Style & Layout	87 ms
Script Parsing & Compilation	37 ms
Rendering	30 ms
Parse HTML & CSS	24 ms
Garbage Collection	2 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. <u>Learn more</u>. (TBT)

	Third-Party	Transfer Size	Main-Thread Blocking Time
Cloudflare CDN		82 KiB	0 ms

	Third-Party	Transfer Size	Main-Thread Blocking Time
fonts/fonta	awesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com)	76 KiB	0 ms
css/font-a	wesome.min.css (cdnjs.cloudflare.com)	6 KiB	0 ms
Lazy load thire	d-party resources with facades		
Some third-party	/ embeds can be lazy loaded. Consider replacing them w	rith a facade until th	ney are required. <u>Learn more</u> .
Largest Conte	entful Paint image was not lazily loaded		
Above-the-fold in Learn more.	mages that are lazily loaded render later in the page lifec	ycle, which can de	lay the largest contentful paint.
Uses passive	listeners to improve scrolling performance		
Consider markir more.	ng your touch and wheel event listeners as `passive` to in	nprove your page's	s scroll performance. <u>Learn</u>
Avoids docume	nt.write()		
	w connections, external scripts dynamically injected via `	document.write()`	
For users on slo seconds. <u>Learn</u>	w connections, external scripts dynamically injected via `	document.write()`	
For users on slo seconds. <u>Learn</u> Avoid non-cor	w connections, external scripts dynamically injected via `more.		can delay page load by tens of
For users on slo seconds. <u>Learn</u> Avoid non-cor Animations which	w connections, external scripts dynamically injected via `more. mposited animations		can delay page load by tens of
For users on slo seconds. Learn Avoid non-cor Animations which Image elemen	w connections, external scripts dynamically injected via `more. mposited animations th are not composited can be janky and increase CLS.	earn more (CLS)	can delay page load by tens of
For users on slo seconds. Learn Avoid non-cor Animations which Image element Set an explicit was	w connections, external scripts dynamically injected via `more. mposited animations th are not composited can be janky and increase CLS. Le	earn more (CLS)	can delay page load by tens of
For users on slo seconds. Learn Avoid non-cor Animations which Image element Set an explicit where the seconds is the second of the second o	w connections, external scripts dynamically injected via 'more. mposited animations th are not composited can be janky and increase CLS. Le that have explicit width and height ridth and height on image elements to reduce layout shifts ame="viewport"> tag with width or initial-scale ="viewport"> not only optimizes your app for mobile scre	earn more CLS s and improve CLS	can delay page load by tens of
For users on slo seconds. Learn Avoid non-cor Animations which Image element Set an explicit where the avoid is a second of the correct o	w connections, external scripts dynamically injected via 'more. mposited animations th are not composited can be janky and increase CLS. Le that have explicit width and height ridth and height on image elements to reduce layout shifts ame="viewport"> tag with width or initial-scale ="viewport"> not only optimizes your app for mobile scre	earn more CLS s and improve CLS	can delay page load by tens of



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

▲ Background and foreground colors do not have a sufficient contrast ratio.	^
Low-contrast text is difficult or impossible for many users to read. <u>Learn more</u> .	
Failing Elements	
h1.Title.p-3	
nav.navbar.navbar-expand-lg.bg-white.navbar-light.shadow-sm.px-5.py-3.py-lg-0	
button.custom-btn.btn-1.btn-2	
p.mb-0	

These are opportunities to improve the legibility of your content.

NAVIGATION

▲ Heading elements are not 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</u> .

Failing Elements

h5.text-center.text-danger

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. 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. Learn more. Custom controls have ARIA roles Custom interactive controls have appropriate ARIA roles. Learn more. Visual order on the page follows DOM order DOM order matches the visual order, improving navigation for assistive technology. Learn more.

Offscreen content is hidden from assistive technology	^
Offscreen content is hidden with display: none or aria-hidden=true. <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 te <u>Learn more</u>.</nav></main>	chnology.
These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an acreview.	ccessibility
PASSED AUDITS (16)	Hide
[aria-*] attributes match their roles	^
Each ARIA `role` supports a specific subset of `aria-*` attributes. Mismatching these invalidates the `aria-*` attribute more.	es. <u>Learn</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 `Learn more.	<body>`.</body>
[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> .	
Buttons have an accessible name	^
When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for u rely on screen readers. <u>Learn more</u> .	sers who
Image elements have [alt] attributes	^
Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an eattribute. Learn more.	empty alt
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 than 5. Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the contents of a web page. Learn more. 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. [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. <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 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.

NOT APPLICABLE (26)
O [accesskey] values are unique
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. Learn more.
[role]s are contained by their required parent element

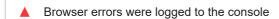
Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions. <u>Learn more</u> .
O [role] values are valid
ARIA roles must have valid values in order to perform their intended accessibility functions. <u>Learn more</u> .
O ARIA toggle fields have accessible names
When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
O ARIA tooltip elements have accessible names
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
O ARIA treeitem elements have accessible names
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. Learn more.
O Definition list items are wrapped in <d1> elements</d1>
Definition list items (` <dt>` and `<dd>`) must be wrapped in a parent `<dl>` element to ensure that screen readers can properly announce them. <u>Learn more</u>.</dl></dd></dt>
O ARIA IDs are unique
The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Learn more</u> .
O No form fields have multiple labels
Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either the first, the last, or all of the labels. <u>Learn more</u> .
O <frame/> or <iframe> elements have a title</iframe>
Screen reader users rely on frame titles to describe the contents of frames. Learn more.

<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 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. <u>Learn more</u> .	
O <object> elements have alternate text</object>	^
Screen readers cannot translate non-text content. Adding alternate text to ` <object>` elements helps screen readers conveneening to users. Learn more.</object>	vey
No element has a [tabindex] value greater than 0	^
A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. <u>Learn more</u> .	
Cells in a element that use the [headers] attribute refer to table cells within the same table.	^
Screen readers have features to make navigating tables easier. Ensuring `` cells using the `[headers]` attribute only refer to other cells in the same table may improve the experience for screen reader users. Learn more.	
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> .	
O [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.	<u>n</u>
	^
When a video provides a caption it is easier for deaf and hearing impaired users to access its information. <u>Learn more.</u>	



Best Practices

GENERAL



Errors logged to the console indicate unresolved problems. They can come from network request failures and other browser concerns. <u>Learn more</u>

Source	Description
vendor .js:628 88	ERROR TypeError: Cannot read properties of undefined (reading 'content') at ReportSpamComponent_Template (http://localhost:4200/main.js:5209:88) at executeTemplate (http://localhost:4200/vendor.js:66026:9) at refreshView (http://localhost:4200/vendor.js:65889:13) at refreshComponent (http://localhost:4200/vendor.js:67086:13) at refreshChildComponents (http://localhost:4200/vendor.js:65685:9) at refreshView (http://localhost:4200/vendor.js:65939:13) at refreshEmbeddedViews (http://localhost:4200/vendor.js:67040:17) at refreshView (http://localhost:4200/vendor.js:65913:9) at refreshComponent (http://localhost:4200/vendor.js:67086:13) at refreshChildComponents (http://localhost:4200/vendor.js:65685:9)
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.
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)
/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)

TRUST AND SAFETY

O Ensure CSP is effective against XSS attacks

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

Description

Directive

Severity

No CSP found in enforcement mode

High

PASSED AUDITS (11) Hide

Uses HTTPS

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

Avoids requesting the geolocation permission on page load Users are mistrustful of or confused by sites that request their location without context. Consider tying the request to a user action instead. Learn more. Avoids requesting the notification permission on page load Users are mistrustful of or confused by sites that request to send notifications without context. Consider tying the request to user gestures instead. Learn more. Avoids front-end JavaScript libraries with known security vulnerabilities Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited by attackers. Learn more Allows users to paste into password fields Preventing password pasting undermines good security policy. Learn more. Displays images with correct aspect ratio Image display dimensions should match natural aspect ratio. Learn more. Serves images with appropriate resolution Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. Learn more. Page has the HTML doctype Specifying a doctype prevents the browser from switching to quirks-mode. Learn more. Properly defines charset A character encoding declaration is required. It can be done with a `<meta>` tag in the first 1024 bytes of the HTML or in the Content-Type HTTP response header. Learn more. Avoids deprecated APIs Deprecated APIs will eventually be removed from the browser. Learn more. No 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

Uncrawlable Link		
	a	
	a.text-white.border-bottom	
	a.text-white	
	a.text-white	
	a.text-white	
	a.text-white.border-bottom	
pear in search results, crawler	s need access to your app.	

To a

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

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 m</u> to user input. <u>Learn more</u> . TBT	illisecond 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 det page is relevant to their search. <u>Learn more</u>.</td><td>ermine if 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. Learn more.</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 there</td><td>n. <u>Learn more</u>.</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 wit attribute. <u>Learn more</u>.</td><td>h an empty 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 Learn more.</td><td>ge or region.</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 me</td><td>ore.</td></tr><tr><td>NOT APPLICABLE (4)</td><td>Hide</td></tr><tr><td>O robots.txt is valid</td><td>^</td></tr><tr><td></td><td></td></tr></tbody></table></title>	

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>.

2/22, 11:44 AM
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 read. Strive to have >60% of page text ≥12px. <u>Learn more</u> .
O Tap targets are sized appropriately
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> .
P-WA
$D \setminus \Lambda \setminus \Lambda$

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

INSTALLABLE

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

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

Failure reason

Page has no manifest <link> URL

PWA OPTIMIZED

Does not register a service worker that controls page and start_url

The service worker is the technology that enables your app to use many Progressive Web App features, such as offline, add to homescreen, and push notifications. Learn more.

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. Learn 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. Learn more. Has a <meta name="viewport"> tag with width or initial-scale A `<meta name="viewport">` not only optimizes your app for mobile screen sizes, but also prevents a 300 millisecond delay to user input. Learn more. TBT Does not provide a valid apple-touch-icon For ideal appearance on iOS when users add a progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. Learn More. Manifest doesn't have a maskable icon No manifest was fetched A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a device. Learn more. ADDITIONAL ITEMS TO MANUALLY CHECK (3) Hide Site works cross-browser To reach the most number of users, sites should work across every major browser. Learn more. 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. Learn more. Each page has a URL Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on social media. Learn more.

These checks are required by the baseline <u>PWA Checklist</u> but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Jul 12, 2022, 11:43 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