

http://localhost:4200/MyProfile



92



Performance

Accessibility

Best Practices **SEO**

PWA



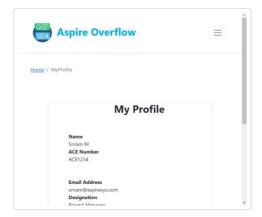
Performance

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

▲ 0-49

50-89

90-100



METRICS Expand view

First Contentful Paint

5.7 s

Time to Interactive

7.1 s

Speed Index

5.7 s

Total Blocking Time

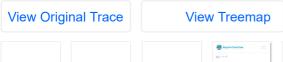
70 ms

Largest Contentful Paint

7.0 s

Cumulative Layout Shift

0.029



















Show audits relevant to: All FCP TBT LCP CLS

OPPORTUNITIES

Estimated Savings Opportunity

Enable text compression

4.96 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	2,512.2 KiB
@angular/core/fesm2015/core.mjs	1,128.5 KiB	409.7 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
@angular/animations/fesm2015/browser.mjs	164.3 KiB	141.8 KiB
@angular/forms/fesm2015/forms.mjs	277.8 KiB	110.4 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	304.2 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.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

0.59 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	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

0.36 s ^

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. <u>Learn more</u>. [FCP] [LCP]

URL	Transfer Size	Potential Savings
/styles.css (localhost)	358.2 KiB	347.8 KiB

Remove duplicate modules in JavaScript bundles

0.24 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
/polyfills.js (localhost)	75.50 KiB	
/vendor.js (localhost)	73.85 KiB	

Source	Transfer Size	Potential Savings
/styles.js (localhost)	76.90 KiB	
node_modules/webpack-dev-server		119.00 KiB
/polyfills.js (localhost)	59.60 KiB	
/vendor.js (localhost)	58.30 KiB	
/styles.js (localhost)	60.70 KiB	
node_modules/events		29.60 KiB
/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 KiB
/polyfills.js (localhost)	4.25 KiB	
/vendor.js (localhost)	4.15 KiB	
/styles.js (localhost)	4.30 KiB	
node_modules/webpack		2.75 KiB
/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) Cache Transfer URL TTL Size /vendor.js (localhost) 5,040 KiB None 1,067 KiB /scripts.js (localhost) None /main.js (localhost) None 680 KiB

URL	Cache TTL	Transfer Size
/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) 150 ms

Avoid enormous network payloads — Total size was 7,923 KiB

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

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

URL	Transfer Size
/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 — 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. <u>Learn more</u>. (FCP) (LCP)

Maximum critical path latency: 1,220 ms

Initial Navigation

/MyProfile (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) 150 ms, 76.10 KiB

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

...standard/ckeditor.js (cdn.ckeditor.com) - 180 ms, 190.83 KiB

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

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

/vendor.js (localhost) - 80 ms, 5,039.86 KiB

/main.js (localhost) - 40 ms, 679.62 KiB

User Timing marks and measures — 34 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	741.82 ms	0.28 ms
Zone:ZoneAwarePromise	Measure	742.2 ms	0.7 ms
Zone:toString	Measure	743 ms	0.01 ms

Name	Туре	Start Time	Duration
Zone:util	Measure	743.12 ms	0.89 ms
Zone:legacy	Measure	743.98 ms	0.02 ms
Zone:timers	Measure	744.05 ms	0.15 ms
Zone:blocking	Measure	744.28 ms	0.02 ms
Zone:EventTarget	Measure	744.35 ms	0.56 ms
Zone:MutationObserver	Measure	744.94 ms	0.16 ms
Zone:IntersectionObserver	Measure	745.07 ms	0.13 ms
Zone:FileReader	Measure	745.15 ms	0.05 ms
Zone:on_property	Measure	745.21 ms	15.39 ms
Zone:customElements	Measure	760.65 ms	0.15 ms
Zone:XHR	Measure	760.83 ms	0.27 ms
Zone:geolocation	Measure	761.09 ms	0.11 ms
Zone:PromiseRejectionEvent	Measure	761.2 ms	0 ms
Zone	Mark	741.84 ms	
Zone:ZoneAwarePromise	Mark	742.2 ms	
Zone:toString	Mark	743 ms	
Zone:util	Mark	743.12 ms	
Zone:legacy	Mark	743.98 ms	
Zone:queueMicrotask	Mark	744.01 ms	
Zone:timers	Mark	744.05 ms	
Zone:requestAnimationFrame	Mark	744.24 ms	
Zone:blocking	Mark	744.28 ms	

Name	Туре	Start Time	Duration
Zone:EventTarget	Mark	744.35 ms	
Zone:MutationObserver	Mark	744.95 ms	
Zone:IntersectionObserver	Mark	745.08 ms	
Zone:FileReader	Mark	745.15 ms	
Zone:on_property	Mark	745.21 ms	
Zone:customElements	Mark	760.66 ms	
Zone:XHR	Mark	760.83 ms	
Zone:geolocation	Mark	761.09 ms	
Zone:PromiseRejectionEvent	Mark	761.2 ms	

O Keep request counts low and transfer sizes small — 15 requests • 7,922 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	15	7,922.0 KiB
Script	7	7,455.4 KiB
Stylesheet	3	364.4 KiB
Font	1	76.1 KiB
Image	1	24.5 KiB
Document	1	1.4 KiB
Other	2	0.2 KiB
Media	0	0.0 KiB
Third-party	3	273.2 KiB

This is the largest contentful element painted within the viewport. <u>Learn</u>	More LCP	
Element		
h1.Title.p-3		
Avoid large layout shifts — 3 elements found		
These DOM elements contribute most to the CLS of the page. CLS Element	CLS	Contributio
div.row.mt-5	020	Continuation
div.iow.iiii-3		0.01
div.col-md-2		0.00
		0.00
div.row.mt-5		0.00
Avoid long main-thread tasks — 3 long tasks found		
ists the longest tasks on the main thread, useful for identifying worst o	ontributors to input delay. <u>Learn more</u>	(IBT)
URL	Start Time	Duratio
/styles.js (localhost)	7,059 ms	124 m

URL	Start Time	Duration
Unattributable	194 ms	70 ms
/runtime.js (localhost)	925 ms	63 ms

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

PASSED AUDITS (25)

Properly size images — Potential savings of 23 KiB

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

URL	Resource Size	Potential Savings
img. Log olm /assets/Logo.png (localhost) g	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. <u>Learn more</u>.

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. <u>Learn more</u>.

	URL	Resource Pote Size Sav	entia vings
	img. Log olm /assets/Logo.png (localhost) g	24.2 KiB 13.0) KiE
Preconnect to required orig	gins		
Consider adding `preconnec' Learn more. FCP LCP	t` or `dns-prefetch` resource hints to establish early conr	nections to important third-party o	origi
Initial server response time	e was short — Root document took 0 ms		
Keep the server response tin	ne for the main document short because all other reques	sts depend on it. <u>Learn more</u> . (FC	P
URL		Time S	Spen
/MyProfile (localhost)			0 m
/MyProfile (localhost) Avoid multiple page redired	cts		0 ms
Avoid multiple page redired	cts al delays before the page can be loaded. <u>Learn more</u> . F		0 ms
Avoid multiple page redired			0 ms
Avoid multiple page redired Redirects introduce additional Preload key requests Consider using ` <link rel="pre</td"/> <td></td> <td>CP (LCP)</td> <td></td>		CP (LCP)	
Avoid multiple page redired Redirects introduce additional Preload key requests Consider using ` <link rel="pre</td"/> <td>al delays before the page can be loaded. <u>Learn more</u>. F</td> <td>CP (LCP)</td> <td></td>	al delays before the page can be loaded. <u>Learn more</u> . F	CP (LCP)	
Avoid multiple page redired Redirects introduce additional Preload key requests Consider using ` <link 2<="" fcp="" http="" lcp="" rel="preloade." td="" use=""/> <td>al delays before the page can be loaded. <u>Learn more</u>. F</td> <td>CP (LCP) requested later in page load. Lea</td> <td></td>	al delays before the page can be loaded. <u>Learn more</u> . F	CP (LCP) requested later in page load. Lea	
Avoid multiple page redired Redirects introduce additional Preload key requests Consider using ` <link 2<="" fcp="" http="" lcp="" rel="preloade." td="" use=""/> <td>al delays before the page can be loaded. Learn more. Find the loads to prioritize fetching resources that are currently over HTTP/1.1, including binary headers and multiplexi</td> <td>CP (LCP) requested later in page load. Lea</td> <td></td>	al delays before the page can be loaded. Learn more. Find the loads to prioritize fetching resources that are currently over HTTP/1.1, including binary headers and multiplexi	CP (LCP) requested later in page load. Lea	
Avoid multiple page redired Redirects introduce additional Preload key requests Consider using ` <link 2="" anim="" are="" benefits="" fcp="" for="" for<="" formats="" gifs="" http="" inefficient="" large="" lcp="" many="" more.="" offers="" rel="pre" td="" use="" video=""/> <td>al delays before the page can be loaded. Learn more. Find the loads to prioritize fetching resources that are currently over HTTP/1.1, including binary headers and multiplexi</td> <td>TEP LCP requested later in page load. Leanner. ebM videos for animations and</td> <td>arn</td>	al delays before the page can be loaded. Learn more. Find the loads to prioritize fetching resources that are currently over HTTP/1.1, including binary headers and multiplexi	TEP LCP requested later in page load. Leanner. 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. <u>Learn More (TBT)</u>

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 KiB
polyfills.js:1054	@babel/plugin-transform-classes	
/vendor.js (localhost)		0.2 KiB
<u>vendor.js:25705</u>	@babel/plugin-transform-classes	

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

Statistic	Element	Value
Total DOM Elements		101
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
/styles.js (localhost)	194 ms	180 ms	2 ms
/MyProfile (localhost)	182 ms	28 ms	0 ms
Unattributable	152 ms	2 ms	0 ms

Minimizes main-thread work — 0.6 s

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

Category	Time Spent
Script Evaluation	266 ms
Other	205 ms
Parse HTML & CSS	59 ms
Style & Layout	59 ms
Script Parsing & Compilation	36 ms
Rendering	18 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

	Third-Party	Transfer Size	Main-Thread Blocking Time
css/font-	-awesome.min.css (cdnjs.cloudflare.com)	6 KiB	0 ms
Lazy load th	ird-party resources with facades		
Some third-par	rty embeds can be lazy loaded. Consider replacing	them with a facade until the	ney are required. <u>Learn more</u> .
Largest Con	tentful Paint image was not lazily loaded		
Above-the-fold Learn more.	I images that are lazily loaded render later in the pa	nge lifecycle, which can de	lay the largest contentful paint
Uses passiv	e listeners to improve scrolling performance		
Consider mark more.	ring your touch and wheel event listeners as `passi	ve` to improve your page's	s scroll performance. <u>Learn</u>
Avoids docum	ment.write()		
	low connections, external scripts dynamically inject	ted via `document.write()`	can delay page load by tens o
For users on s seconds. <u>Learn</u>	low connections, external scripts dynamically inject	ted via `document.write()`	can delay page load by tens o
For users on s seconds. Learn Avoid non-co	low connections, external scripts dynamically inject n more.		can delay page load by tens o
For users on s seconds. Learn Avoid non-co	low connections, external scripts dynamically inject n more. omposited animations		can delay page load by tens o
For users on s seconds. Learn Avoid non-co Animations wh	low connections, external scripts dynamically inject n more. omposited animations nich are not composited can be janky and increase	CLS. <u>Learn more</u> CLS	
For users on s seconds. Learn Avoid non-co Animations wh Image element Set an explicit	low connections, external scripts dynamically inject n more. omposited animations nich are not composited can be janky and increase ents have explicit width and height	CLS. <u>Learn more</u> CLS	
For users on s seconds. Learn Avoid non-co Animations wh Image eleme Set an explicit Has a <meta `<meta="" a="" name<="" td=""/> <td>low connections, external scripts dynamically inject n more. omposited animations nich are not composited can be janky and increase ents have explicit width and height width and height on image elements to reduce layo</td> <td>CLS. <u>Learn more</u> CLS out shifts and improve CLS</td> <td>S. Learn more CLS</td>	low connections, external scripts dynamically inject n more. omposited animations nich are not composited can be janky and increase ents have explicit width and height width and height on image elements to reduce layo	CLS. <u>Learn more</u> CLS out shifts and improve CLS	S. Learn more CLS
For users on s seconds. Learn Avoid non-co Animations wh Image eleme Set an explicit Has a <meta `<meta="" a="" input.="" l<="" name="" td="" to="" user=""/> <td>low connections, external scripts dynamically inject n more. omposited animations nich are not composited can be janky and increase ents have explicit width and height width and height on image elements to reduce layout name="viewport"> tag with width or initial-scale e="viewport"> not only optimizes your app for mobile</td> <td>CLS. <u>Learn more</u> CLS out shifts and improve CLS</td> <td>S. Learn more CLS</td>	low connections, external scripts dynamically inject n more. omposited animations nich are not composited can be janky and increase ents have explicit width and height width and height on image elements to reduce layout name="viewport"> tag with width or initial-scale e="viewport"> not only optimizes your app for mobile	CLS. <u>Learn more</u> CLS out shifts and improve CLS	S. Learn more CLS



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	
p.mb-0	

These are opportunities to improve the legibility of your content.

ADDITIONAL ITEMS TO MANUALLY CHECK (10) 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.
O User focus is not accidentally trapped in a region
A user can tab into and out of any control or region without accidentally trapping their focus. <u>Learn more</u> .
O Custom controls have associated labels
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. Learn more.
O Custom controls have ARIA roles
Custom interactive controls have appropriate ARIA roles. <u>Learn more</u> .
 Visual order on the page follows DOM order
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more</u> .
Offscreen content is hidden from assistive technology
Offscreen content is hidden with display: none or aria-hidden=true. <u>Learn more</u> .
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 Learn more.</nav></main>
These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review.

PASSED AUDITS (15) 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. [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. <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. <u>Learn more</u>.

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

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

List items () are contained within or parent elements

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

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</u>.

NOT APPLICABLE (28)

[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.

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 nam it unusable for users who rely on screen readers. <u>Learn more</u> .	e, making
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 r	<u>nore</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 <u>Learn more</u> .	functions.
O [role] values are valid	^
ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more.	
ARIA toggle fields have accessible names	^
When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it for users who rely on screen readers. <u>Learn more</u> .	t unusable
	t unusable
for users who rely on screen readers. <u>Learn more</u> .	^
for users who rely on screen readers. Learn more. O ARIA too1tip elements have accessible names When an element doesn't have an accessible name, screen readers announce it with a generic name, making it uses the screen readers.	^
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Definition list items (` <dt>` and `<dd>`) must be wrapped in a parent `<dl>` element to ensure that screen readers can properly announce them. Learn more.</dl></dd></dt>	
O [id] attributes on active, focusable elements are unique	^
All focusable elements must have a unique `id` to ensure that they're visible to assistive technologies. Learn more.	
ARIA IDs are unique	^
The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Lea more</u> .	<u>arn</u>
No form fields have multiple labels	^
Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either the first, the last, or all of the labels. <u>Learn more</u> .	
<frame/> or <iframe> elements have a title</iframe>	^
Screen reader users rely on frame titles to describe the contents of frames. <u>Learn more</u> .	
<pre><input type="image"/> elements have [alt] text</pre>	^
When an image is being used as an ` <input/> ` button, providing alternative text can help screen reader users understand the purpose of the button. <u>Learn more</u> .	
Form elements have associated labels	^
Labels ensure that form controls are announced properly by assistive technologies, like screen readers. <u>Learn more</u> .	
The document does not use <meta http-equiv="refresh"/>	^
Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. <u>Learn more</u> .	
O <object> elements have alternate text</object>	^
Screen readers cannot translate non-text content. Adding alternate text to ` <object>` elements helps screen readers con meaning to users. <u>Learn more</u>.</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> .	

O 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>.

[lang] attributes have a valid value

Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen reader. <u>Learn</u> 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

GENERAL

▲ Browser errors were logged to the console

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

MyProf Refused to apply style from 'http://localhost:4200/bootstrap/css/bootstrap.min.css' because its MIME ile:1 type ('text/html') is not a supported stylesheet MIME type, and strict MIME checking is enabled.

MyProf Refused to apply style from 'http://localhost:4200/bootstrap/css/bootstrap.min.css' because its MIME ile:1 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.map (localhost) /styles.js (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

Description	Directive	Severity
No CSP found in enforcement mode		High

Uses HTTPS	
where some resources are loaded over HTTP despite th	at don't handle sensitive data. This includes avoiding mixed content in the communications between your app and your users, and is a ls. Learn more.
Avoids requesting the geolocation permission on page	e load
Users are mistrustful of or confused by sites that request action instead. <u>Learn more</u> .	t their location without context. Consider tying the request to a us
Avoids requesting the notification permission on page	load
Users are mistrustful of or confused by sites that request user gestures instead. <u>Learn more</u> .	t to send notifications without context. Consider tying the request
Avoids front-end JavaScript libraries with known secur	rity vulnerabilities
Some third-party scripts may contain known security vuli Learn more.	nerabilities that are easily identified and exploited 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	
lmage display dimensions should match natural aspect r	ratio. <u>Learn more</u> .
Serves images with appropriate resolution	
Image natural dimensions should be proportional to the omore.	display size and the pixel ratio to maximize image clarity. <u>Learn</u>
Page has the HTML doctype	

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

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) Hide

Fonts with font-display: optional are preloaded

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



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.

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.

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

a.text-white.border-bottom

a.text-white

a.text-white

a.text-white

a.text-white

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

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

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 delay</u> to user input. <u>Learn more</u>. (TBT)

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</u>.

Page has successful HTTP status code	^
Pages with unsuccessful HTTP status codes may not be indexed properly. <u>Learn more</u> .	
Links have descriptive text	^
Descriptive link text helps search engines understand your content. <u>Learn more</u> .	
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	<u>re</u> .
Image elements have [alt] attributes	^
Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty a attribute. Learn more.	alt
Document has a valid hreflang	^
hreflang links tell search engines what version of a page they should list in search results for a given language or region. <u>Learn more</u> .	
Document avoids plugins	^
Search engines can't index plugin content, and many devices restrict plugins or don't support them. <u>Learn more</u> .	
NOT 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 crawled or indexed. <u>Learn more</u> .	
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 have >60% of page text ≥12px. <u>Learn more</u> .	e to

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>.



PWA

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

INSTALLABLE

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

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

Failure reason

Page has no manifest <link> URL

PWA OPTIMIZED

▲ Does not register a service worker that controls page and start_url

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

▲ Is not configured for a custom splash screen Failures: No manifest was fetched.

A themed splash screen ensures a high-quality experience when users launch your app from their homescreens. <u>Learn</u> more.

Does not set a theme color for the address bar.

Failures: No manifest was fetched, No `<meta name="theme-color">` tag found.

The browser address bar can be themed to match your site. Learn more.

Content is sized correctly for the viewport

If the width of your app's content doesn't match the width of the viewport, your app might not be optimized for mobile screens. <u>Learn more</u>.

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

^

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

▲ Manifest doesn't have a maskable icon No manifest was fetched

^

A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a device. <u>Learn more</u>.

ADDITIONAL ITEMS TO MANUALLY CHECK (3)

Hide

Site works cross-browser

^

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

O Page transitions don't feel like they block on the network

^

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

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, 11:57 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