





Performance

Metrics			=
First Contentful Paint	0.6 s	Time to Interactive	4.5 s
Speed Index	0.7 s	Total Blocking Time	110 ms
▲ Largest Contentful Paint	4.7 s	Cumulative Layout Shift	0
Values are estimated and may vary. The performance sco	ore is calc	ulated directly from these metrics. See calculator.	•
Opportunities — These suggestions can help your page	e load fast	er. They don't <u>directly affect</u> the Performance score.	

Op	portunity	Esti	mated Savings
	Enable text compression		3.8 s ^
	Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total networmore.	k bytes.	<u>Learn</u>
	Show 3	rd-party	resources (0)
	URL	ansfer Size	Potential Savings
	/vendor.js (localhost) 7,517	'.6 KiB	6,845.3 KiB
	/styles.js (localhost)	.7 KiB	355.4 KiB

Minify JavaScript		1.64 s ^
/runtime.js (localhost)	12.3 KiB	10.6 KiB
/main.js (localhost)	128.9 KiB	118.8 KiB
/polyfills.js (localhost)	282.8 KiB	255.5 KiB
URL	Transfer Size	Potential Savings

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

Show 3rd-party resources (0)

URL	Transfer Size	Potential Savings
/vendor.js (localhost)	3,759.1 KiB	1,849.8 KiB
/polyfills.js (localhost)	283.1 KiB	144 KiB
/main.js (localhost)	129.2 KiB	13.9 KiB
/runtime.js (localhost)	12.6 KiB	6.6 KiB

Remove unused JavaScript

1.12 s 🔥

Remove unused JavaScript to reduce bytes consumed by network activity. Learn more.

Show 3rd-party resources (0)

URL	Transfer Size	Potential Savings
/vendor.js (localhost)	3,759.1 KiB	1,302 KiB
/node_modules/@angular/core/ivy_ngcc/fesm2015/core.js	1,544.4 KiB	602.8 KiB
/node_modules/@angular/animations/ivy_ngcc/fesm2015/browser.js	255.4 KiB	94.4 KiB
/node_modules/@angular/common/ivy_ngcc/fesm2015/common.js	258.7 KiB	91.6 KiB
/node_modules/@angular/router/ivy_ngcc/fesm2015/router.js	295.9 KiB	86.6 KiB
/node_modules/sockjs-client/dist/sockjs.js	179.8 KiB	80.2 KiB
/polyfills.js (localhost)	283.1 KiB	47 KiB
node_modules/zone.js/dist/zone-evergreen.js	274.8 KiB	47 KiB
/main.js (localhost)	129.2 KiB	23.8 KiB
/src/app/dashboard/dashboard.component.html	25 KiB	12.8 KiB
/src/app/dashboard/dashboard.component.ts	9.6 KiB	3.6 KiB
(webpack)/hot sync nonrecursive ^\.\/log\$	1.2 KiB	1.2 KiB
/\$_lazy_route_resource lazy namespace object	1.1 KiB	1.1 KiB
/src/app/http-service.service.ts	3.4 KiB	0.9 KiB

Eliminate render-blocking resources

0.37 s 🔨

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

Show 3rd-party resources (2)	

URL	Transfer Size	Potential Savings
/css?family=Roboto:300,400,500&display=swap (fonts.googleapis.com)	1.2 KiB	330 ms
/icon?family=Material+Icons (fonts.googleapis.com)	0.4 KiB	330 ms

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

▲ Serve static assets with an efficient cache policy — 5 resources found

A long cache lifetime can speed up repeat visits to your page. Learn more.

Show	2rd	narty	resources	(n)	١
OHOW	ਹਾਧ	party	TUSUUTUUS	(U	,

URL	Cache TTL	Transfer Size
/vendor.js (localhost)	None	3,759 KiB
/styles.js (localhost)	None	388 KiB
/polyfills.js (localhost)	None	283 KiB
/main.js (localhost)	None	129 KiB
/runtime.js (localhost)	None	13 KiB

▲ Avoid enormous network payloads — Total size was 4,599 KiB

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

✓ Show 3rd-party resources (4)

URL	Transfer Size
/vendor.js (localhost)	3,759.1 KiB
/styles.js (localhost)	388 KiB
/polyfills.js (localhost)	283.1 KiB
/main.js (localhost)	129.2 KiB
/runtime.js (localhost)	12.6 KiB
v20/KFOICnqEuwoff2 (fonts.gstatic.com)	12.4 KiB
v20/KFOmCnqEuwoff2 (fonts.gstatic.com)	11.4 KiB
/css?family=Roboto:300,400,500&display=swap (fonts.googleapis.com)	1.2 KiB
http://localhost:4200	1 KiB

URL Transfer Size

/icon?family=Material+Icons (fonts.googleapis.com)

0.4 KiB

Avoid chaining critical requests — 3 chains found

The Critical Request Chains below show you what resources are loaded with a high priority. Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. Learn more.

Maximum critical path latency: 860 ms

Initial Navigation

http://localhost:4200

/css?family=Roboto:300,400,500&display=swap (fonts.googleapis.com)

...v20/KFOmCnqEu....woff2 (fonts.gstatic.com) - 330 ms, 11.36 KiB

...v20/KFOlCnqEu....woff2 (fonts.gstatic.com) - 400 ms, 12.35 KiB

/icon?family=Material+Icons (fonts.googleapis.com) - 420 ms, 0.43 KiB

User Timing marks and measures — 28 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	51.58 ms	0.31 ms
Zone:ZoneAwarePromise	Measure	51.95 ms	0.54 ms
Zone:toString	Measure	52.55 ms	0.14 ms
Zone:util	Measure	52.78 ms	0.16 ms
Zone:legacy	Measure	52.94 ms	0.03 ms
Zone:timers	Measure	52.98 ms	0.27 ms
Zone:requestAnimationFrame	Measure	53.26 ms	0.06 ms
Zone:blocking	Measure	53.34 ms	0.1 ms
Zone:EventTarget	Measure	53.45 ms	1 ms
Zone:on_property	Measure	54.47 ms	13.32 ms
Zone:customElements	Measure	67.82 ms	0.18 ms
Zone:XHR	Measure	68 ms	0.31 ms
Zone:geolocation	Measure	68.33 ms	0.32 ms
Zone:PromiseRejectionEvent	Measure	68.66 ms	0.12 ms
Zone	Mark	51.6 ms	

Name	Туре	Start Time	Duration
Zone:ZoneAwarePromise	Mark	51.96 ms	
Zone:toString	Mark	52.55 ms	
Zone:util	Mark	52.78 ms	
Zone:legacy	Mark	52.94 ms	
Zone:timers	Mark	52.98 ms	
Zone:requestAnimationFrame	Mark	53.27 ms	
Zone:blocking	Mark	53.33 ms	
Zone:EventTarget	Mark	53.46 ms	
Zone:on_property	Mark	54.48 ms	
Zone:customElements	Mark	67.83 ms	
Zone:XHR	Mark	68.01 ms	
Zone:geolocation	Mark	68.33 ms	
Zone:PromiseRejectionEvent	Mark	68.66 ms	

Keep request counts low and transfer sizes small — 12 requests • 4,599 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	12	4,598.6 KiB
Script	5	4,571.9 KiB
Font	2	23.7 KiB
Stylesheet	2	1.6 KiB
Document	1	1 KiB
Other	2	0.4 KiB
Image	0	0 KiB
Media	0	0 KiB
Third-party	5	25.3 KiB

Largest Contentful Paint element — 1 element found

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

Element

h3

Avoid long main-thread tasks — 1 long task found		^
Lists the longest tasks on the main thread, useful for identifying worst contributors to input del	ay. <u>Learn more</u>	
	Show 3rd-party re	esources (0)
URL	Start Time	Duration
/vendor.js (localhost)	4,420 ms	164 ms
Passed audits (24)		^
Properly size images		^
Serve images that are appropriately-sized to save cellular data and improve load time. Learn	more.	
Defer offscreen images		^
Consider lazy-loading offscreen and hidden images after all critical resources have finished lo interactive. <u>Learn more</u> .	ading to lower time t	to
Minify CSS — Potential savings of 26 KiB		^
Minifying CSS files can reduce network payload sizes. <u>Learn more</u> .		
	Show 3rd-party re	esources (0)
URL	Transfer Size	Potential Savings
.mat-badge-content{font-weight:600;font-size:12px;font-family:Roboto, "Helvetica Neue", sans-serif} \dots	36.2 KiB	22.6 KiB
<pre>html[_ngcontent-gil-c19] { background-color: #f5f5f5; }</pre>	3.8 KiB	2.9 KiB
Remove unused CSS — Potential savings of 62 KiB		^
Remove dead rules from stylesheets and defer the loading of CSS not used for above-the-fold unnecessary bytes consumed by network activity. <u>Learn more</u> .	d content to reduce	
	Show 3rd-party re	esources (0)
URL	Transfer Size	Potential Savings
.mat-badge-content{font-weight:600;font-size:12px;font-family:Roboto, "Helvetica Neue", sans-serif} \dots	36.2 KiB	36.1 KiB
.la-ball-8bits[_ngcontent-gil-c18], .la-ball-8bits[_ngcontent-gil-c18] > div[_ngcontent gil-c18]{box}	26.3 KiB	26 KiB
Efficiently encode images		^
Optimized images load faster and consume less cellular data. <u>Learn more</u> .		
Serve images in next-gen formats		^

Image formats like JPEG 2000, JPEG XR, and WebP often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. Learn more. 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. **URL** Potential Savings 80 ms https://fonts.gstatic.com 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. Avoid multiple page redirects Redirects introduce additional delays before the page can be loaded. Learn more. Preload key requests Consider using `<link rel=preload>` to prioritize fetching resources that are currently requested later in page load. Learn more. Use HTTP/2 — 7 requests not served via HTTP/2 HTTP/2 offers many benefits over HTTP/1.1, including binary headers, multiplexing, and server push. Learn more. Show 3rd-party resources (0) URL Protocol http://localhost:4200 http/1.1 /runtime.js (localhost) http/1.1 /polyfills.js (localhost) http/1.1 /styles.js (localhost) http/1.1 http/1.1 /vendor.js (localhost) /main.js (localhost) http/1.1 /sockjs-node/info?t=160... (localhost) http/1.1 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. Learn more Remove duplicate modules in JavaScript bundles Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity.

Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 KiB

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

	ty resources (0)
1	Potential Savings
	0.2 KiB
m-classes	
	^
ice costly <u>layout reflows</u> .	Learn more.
	Value
	77
ect-ng-class="[object Ob	oject]"> 9
	15
	^
l delivering smaller JS pa	yloads helps
Show 3rd-par	ty resources (0)
Script Evaluation	Script Parse
86 ms	1 ms
1 ms	37 ms
1 ms	0 ms
4 ms	6 ms
	^
delivering smaller JS pay	
delivering smaller JS pay	
delivering smaller JS pay	rloads helps
delivering smaller JS pay	vloads helps Time Spent
delivering smaller JS pay	Vloads helps Time Spent 139 ms
	m-classes ace costly layout reflows. ect-ng-class="[object 0th delivering smaller JS pa Shew 3rd-par Script Evaluation 86 ms 1 ms 1 ms

/202	120		
	Category	Time Spent	
	Garbage Collection	10 ms	
	Parse HTML & CSS	7 ms	
	Rendering	6 ms	
	All text remains visible during webfont loads	^	
	Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. Le	earn more.	
	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> .		
	Third-Party Transfer Size	Main-Thread Blocking Time	
	Google Fonts 25 KiB	0 ms	
	Avoid large layout shifts	^	
	These DOM elements contribute most to the CLS of the page.		
	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 more</u> .	
	Avoids document.write()	^	
	For users on slow connections, external scripts dynamically injected via `document.write()` can de seconds. <u>Learn more</u> .	lay page load by tens of	
	Avoid non-composited animations	^	
	Animations which are not composited can be janky and contribute to CLS. <u>Learn more</u>		
	Image elements have explicit width and height	^	
	Set an explicit width and height on image elements to reduce layout shifts and improve CLS. Learn	n more	



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.

Additional items to manually check (10) — These items address areas which an automated testing tool cannot cover. Learn more in our guide on <u>conducting an accessibility review</u>.

Buttons have an accessible name	^
Assistive technologies, like screen readers, work inconsistently when `aria-hidden="true"` is set on the docu Learn more.	ment ` <body>`.</body>
[aria-hidden="true"] is not present on the document <body></body>	^
assed audits (8)	^
Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assi Learn more.</nav></main>	stive technology.
HTML5 landmark elements are used to improve navigation	^
Offscreen content is hidden with display: none or aria-hidden=true. <u>Learn more</u> .	
Offscreen content is hidden from assistive technology	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more</u> .	
Visual order on the page follows DOM order	^
Custom interactive controls have appropriate ARIA roles. <u>Learn more</u> .	
Custom controls have ARIA roles	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
Custom controls have associated labels	^
A user can tab into and out of any control or region without accidentally trapping their focus. Learn more.	
User focus is not accidentally trapped in a region	^
If new content, such as a dialog, is added to the page, the user's focus is directed to it. <u>Learn more</u> .	
The user's focus is directed to new content added to the page	^
Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-elements. <u>Learn more</u> .	interactive
Interactive elements indicate their purpose and state	^
Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn more</u> .	
Interactive controls are keyboard focusable	^
Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. Learn r	nore.
The page has a logical tab order	^

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.

Background and foreground colors have a sufficient contrast ratio

Low-contrast text is difficult or impossible for many users to read. 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. <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>.

<html> element has a [lang] attribute

If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might not announce the page's text correctly. <u>Learn more</u>.

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

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

[user-scalable="no"] is not used in the <meta name="viewport"> element and the [maximum-scale] attribute is not less than 5.

Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the contents of a web page. <u>Learn more</u>.

Not applicable (33)

[accesskey] values are unique

Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more.

[aria-*] attributes match their roles

Each ARIA `role` supports a specific subset of `aria-*` attributes. Mismatching these invalidates the `aria-*` attributes. <u>Learn more</u>.

[aria-hidden="true"] 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>.

[role]s have all required [aria-*] attributes

Some ARIA roles have required attributes that describe the state of the element to screen readers. Learn more. Elements with an ARIA [role] that require children to contain a specific [role] have all required children. Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. Learn more. [role]s are contained by their required parent element Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions. Learn more. [role] values are valid ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more. ARIA toggle fields have accessible names When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn more. [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. 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. <dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements. When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. Learn more. Definition list items are wrapped in <dl> elements Definition list items ('<dt>' and '<dd>') must be wrapped in a parent '<dl>' element to ensure that screen readers can properly announce them. Learn more. [id] attributes on active, focusable elements are unique All focusable elements must have a unique 'id' to ensure that they're visible to assistive technologies. Learn more. ARIA IDs are unique The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. Learn more. No form fields have multiple labels Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either the first, the last, or all of the labels. Learn more. <frame> or <iframe> elements have a title

Screen reader users rely on frame titles to describe the contents of frames. Learn more.

Image elements have [alt] attributes

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

<input type="image"> elements have [alt] text

When an image is being used as an `<input>` button, providing alternative text can help screen reader users understand the purpose of the button. <u>Learn more</u>.

Form elements have associated labels

Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more.

Presentational elements avoid using , <caption> or the [summary] attribute.

A table being used for layout purposes should not include data elements, such as the thor caption elements or the summary attribute, because this can create a confusing experience for screen reader users. <u>Learn more</u>.

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 more</u>.

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>.

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>.

<object> elements have [alt] text

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

No element has a [tabindex] value greater than 0

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

Cells in a element that use the [headers] attribute refer to table cells within the same table.

Screen readers have features to make navigating tables easier. Ensuring `` cells using the `[headers]` attribute only refer to other cells in the same table may improve the experience for screen reader users. <u>Learn more</u>.

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

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

[lang] attributes have a valid value

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

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

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

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

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



Best Practices

General

Registers an unload listener

The `unload` event does not fire reliably and listening for it can prevent browser optimizations like the Back-Forward Cache.

Consider using the `pagehide` or `visibilitychange` events instead. Learn More

Shew 3rd-party resources (0)

URL

polyfills.js:1645

Passed audits (14)

Uses HTTPS

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

Links to cross-origin destinations are safe

Add `rel="noopener"` or `rel="noreferrer"` to any external links to improve performance and prevent security vulnerabilities. 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 Application Cache** Application Cache is deprecated. Learn more. **Detected JavaScript libraries** All front-end JavaScript libraries detected on the page. Learn more. Name Version 9.0.7 Angular Avoids deprecated APIs Deprecated APIs will eventually be removed from the browser. Learn more.

No browser errors logged to the console

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



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

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

A	Document does not have a meta description	^
	Meta descriptions may be included in search results to concisely summarize page content. <u>Learn more</u> .	
	ditional items to manually check (1) — Run these additional validators on your site to check additional SEO best actices.	^
	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> .	
Pas	ssed audits (8)	^
	Has a <meta name="viewport"/> tag With width or initial-scale	^
	Add a ` <meta name="viewport"/> ` tag to optimize your app for mobile screens. <u>Learn more</u> .	
	Document has a <title> element</td><td>^</td></tr><tr><td></td><td>The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a pair is relevant to their search. <u>Learn more</u>.</td><td>age</td></tr><tr><td></td><td>Page has successful HTTP status code</td><td>^</td></tr><tr><td></td><td>Pages with unsuccessful HTTP status codes may not be indexed properly. <u>Learn more</u>.</td><td></td></tr><tr><td></td><td>Links have descriptive text</td><td>^</td></tr><tr><td></td><td>Descriptive link text helps search engines understand your content. <u>Learn more</u>.</td><td></td></tr><tr><td></td><td>Links are crawlable</td><td>^</td></tr><tr><td></td><td>Search engines may use `href` attributes on links to crawl websites. Ensure that the `href` attribute of anchor elements link</td><td>ks</td></tr></tbody></table></title>	

to an appropriate destination, so more pages of the site can be discovered. Learn More

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 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. Learn more. Document avoids plugins Search engines can't index plugin content, and many devices restrict plugins or don't support them. Learn more. Not applicable (5) robots.txt is valid If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. Learn more. 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. Document has a valid rel=canonical Canonical links suggest which URL to show in search results. Learn more. 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. Learn more. 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>.



Progressive Web App

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

Fast and reliable

Page load is not fast enough on mobile networks

Your page loads too slowly and is not interactive within 10 seconds. Look at the opportunities and diagnostics in the "Performance" section to learn how to improve.

Interactive on simulated mobile network at 25.7 s

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

Current page does not respond with a 200 when offline

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

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

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

Installable

Uses HTTPS

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

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

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

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

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

PWA Optimized

▲ Does not redirect HTTP traffic to HTTPS

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

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

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

Learn more.

26/20	20	
	Has a <meta name="viewport"/> tag with width or initial-scale	^
	Add a ` <meta name="viewport"/> ` tag to optimize your app for mobile screens. <u>Learn more</u> .	
_	Does not provide fallback content when JavaScript is not available	
	The page body should render some content if its scripts are not available.	·
	Your app should display some content when JavaScript is disabled, even if it's just a warning to the user that JavaScript is required to use the app. <u>Learn more</u> .	
A	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> .	
A	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> .	
Ad	ditional items to manually check (3) — These checks are required by the baseline PWA Checklist but are not	^
aut	omatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.	
	Site works cross-browser	^
	To reach the most number of users, sites should work across every major browser. <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> .	
	Each page has a URL	^

Runtime Settings

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

URL	http://localhost:4200/
Fetch Time	Oct 26, 2020, 11:34 AM GMT+5:30
Device	Emulated Desktop
Network throttling	40 ms TCP RTT, 10,240 Kbps throughput (Simulated)
CPU throttling	1x slowdown (Simulated)
Channel	devtools

......

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

Gecko) Chrome/86.0.4240.111 Safari/537.36

User agent (network) Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_6) AppleWebKit/537.36 (KHTML,

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

CPU/Memory Power 679

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