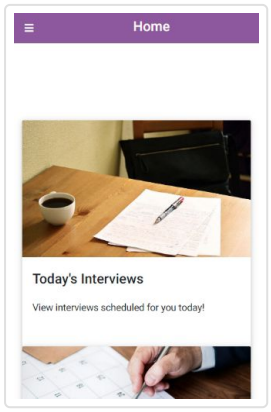
http://localhost:4200/

Performance	Accessibility	Best Practices	SEO	PWA
23	77	100	75	—

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 Collapse view

▲ First Contentful Paint
28.3 s
First Contentful Paint marks the time at which the first text or image is painted. Learn more.

▲ Time to Interactive
32.8 s
Time to interactive is the amount of time it takes for the page to become fully interactive. Learn more.

▲ Speed Index
28.3 s
Speed Index shows how quickly the contents of a page are visibly populated. Learn more.

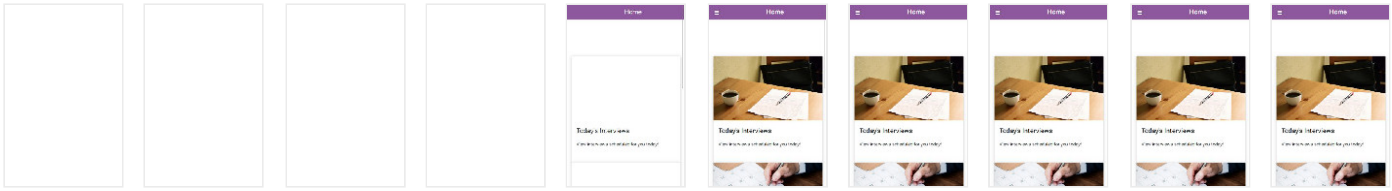
▲ Total Blocking Time
1,010 ms
Sum of all time periods between FCP and Time to Interactive, when task length exceeded 50ms, expressed in milliseconds. Learn more.

▲ Largest Contentful Paint
32.3 s
Largest Contentful Paint marks the time at which the largest text or image is painted. Learn more

Cumulative Layout Shift
0
Cumulative Layout Shift measures the movement of visible elements within the viewport. Learn more.

View Original Trace View Treemap

View Original Trace View Treemap



Show audits relevant to: All FCP TBT LCP CLS

OPPORTUNITIES

Opportunity	Estimated Savings
▲ Enable text compression	22.35 s

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

URL	Transfer Size	Potential Savings
/vendor.js (localhost)	3,770.0 KiB	2,971.9 KiB
/main.js (localhost)	791.1 KiB	715.4 KiB
/styles.css (localhost)	264.1 KiB	226.3 KiB
/polyfills.js (localhost)	297.0 KiB	223.6 KiB
/styles.js (localhost)	302.5 KiB	219.4 KiB
/scripts.js (localhost)	87.4 KiB	57.2 KiB
/runtime.js (localhost)	6.5 KiB	4.8 KiB

Opportunity	Estimated Savings
▲ Reduce unused JavaScript	13.5 s

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. Learn more. LCP

URL	Transfer Size	Potential Savings
/vendor.js (localhost)	3,770.3 KiB	1,784.8 KiB
…@angular/core/fesm2015/core.mjs	1,128.6 KiB	409.8 KiB
…jquery/dist/jquery.js	306.6 KiB	226.8 KiB

URL	Transfer Size	Potential Savings
…@angular/animations/fesm2015/browser.mjs	164.3 KiB	141.8 KiB
…@angular/forms/fesm2015/forms.mjs	277.8 KiB	110.4 KiB
…@angular/cdk/fesm2015/overlay.mjs	133.2 KiB	93.7 KiB
/main.js (localhost)	791.4 KiB	509.6 KiB
…app/Shared/register-page/register-page.component.html	25.5 KiB	25.5 KiB
…app/TAC/create-invite/create-invite.component.html	25.0 KiB	25.0 KiB
…app/Management/department-performance/department-performance.component.html	17.0 KiB	17.0 KiB
…app/TAC/tac-edit-pool-member/tac-edit-pool-member.component.html	12.8 KiB	12.8 KiB
…app/TAC/tac-employee-dashboard/tac-employee-dashboard.component.html	9.7 KiB	9.7 KiB
/styles.js (localhost)	302.8 KiB	263.6 KiB
…./node_modules/jquery/dist/jquery.min.js	131.3 KiB	99.3 KiB
…./node_modules/html-entities/lib/named-references.js	67.1 KiB	67.1 KiB
…./node_modules/webpack-dev-server/client/modules/logger/index.js	26.3 KiB	26.3 KiB
…./node_modules/events/events.js	14.8 KiB	14.8 KiB
…./node_modules/webpack-dev-server/client/index.js	8.1 KiB	8.1 KiB
/polyfills.js (localhost)	297.3 KiB	78.7 KiB
…node_modules/zone.js/fesm2015/zone.js	124.9 KiB	39.2 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
/scripts.js (localhost)	87.7 KiB	65.9 KiB
…	87.7 KiB	65.9 KiB

▲ Minify JavaScript — 10.8 s

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

URL	Transfer Size	Potential Savings
/vendor.js (localhost)	3,770.3 KiB	1,865.6 KiB
/main.js (localhost)	791.4 KiB	105.4 KiB

URL	Transfer Size	Potential Savings
/polyfills.js (localhost)	297.3 KiB	98.8 KiB
/styles.js (localhost)	302.8 KiB	78.1 KiB
/runtime.js (localhost)	6.8 KiB	3.8 KiB

▲ Eliminate render-blocking resources 2.79 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 (6)

URL	Transfer Size	Potential Savings
/css2?family=Heebo:wght@400;500;600;700&display=swap (fonts.googleapis.com)	0.9 KiB	1,040 ms
…css/all.min.css (cdnjs.cloudflare.com)	10.5 KiB	1,350 ms
…font/bootstrap-icons.css (cdn.jsdelivr.net)	9.1 KiB	1,230 ms
…css/bootstrap.min.css (cdn.jsdelivr.net)	23.8 KiB	420 ms
/css2?family=Roboto:wght@300;400;500&display=swap (fonts.googleapis.com)	0.8 KiB	200 ms
/styles.css (localhost)	264.4 KiB	3,020 ms
/9cb8fe11af.js (kit.fontawesome.com)	4.4 KiB	1,010 ms

▲ Reduce unused CSS 1.8 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

☑ Show 3rd-party resources (2)

URL	Transfer Size	Potential Savings
/styles.css (localhost)	264.4 KiB	255.3 KiB
…css/bootstrap.min.css (cdn.jsdelivr.net)	23.8 KiB	23.2 KiB

URL	Transfer Size	Potential Savings
`/*! * Font Awesome Free 6.1.1 by @fontawesome - https://fontawesome.com * License - https://fontaw...`	20.0 KiB	19.8 KiB
…css/all.min.css (cdnjs.cloudflare.com)	10.5 KiB	10.4 KiB

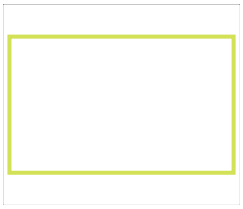
▲ Remove duplicate modules in JavaScript bundles 1.65 s

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`		149.30 KiB
/polyfills.js (localhost)	75.50 KiB	
/vendor.js (localhost)	73.85 KiB	
/styles.js (localhost)	75.45 KiB	
`node_modules/webpack-dev-server`		117.90 KiB
/polyfills.js (localhost)	59.60 KiB	
/vendor.js (localhost)	58.30 KiB	
/styles.js (localhost)	59.60 KiB	
`node_modules/events`		29.30 KiB
/polyfills.js (localhost)	14.85 KiB	
/vendor.js (localhost)	14.50 KiB	
/styles.js (localhost)	14.80 KiB	
`node_modules/ansi-html-community`		8.40 KiB
/polyfills.js (localhost)	4.25 KiB	
/vendor.js (localhost)	4.15 KiB	
/styles.js (localhost)	4.25 KiB	
`node_modules/webpack`		2.70 KiB
/polyfills.js (localhost)	1.35 KiB	
/vendor.js (localhost)	1.35 KiB	
/styles.js (localhost)	1.35 KiB	

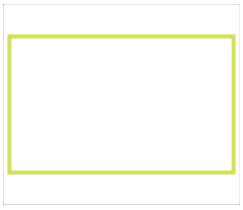
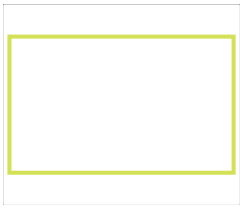
▲ Preload Largest Contentful Paint image — 1.06 s

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

	URL	Potential Savings
	img …Images/Current.jpg (localhost)	1,060 ms

Serve images in next-gen formats — 0.15 s

Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. Learn more.

	URL	Resource Size	Potential Savings
	img …Images/Scheduled.jpg (localhost)	59.2 KiB	30.1 KiB
	img …Images/Upcoming.jpg (localhost)	53.6 KiB	22.7 KiB
	img …Images/Current.jpg (localhost)	49.5 KiB	19.0 KiB
img.profile-img.mb-2	…Images/profile_.png (localhost)	22.8 KiB	18.2 KiB

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

DIAGNOSTICS

▲ Serve static assets with an efficient cache policy — 11 resources found

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

URL	Cache TTL	Transfer Size
/vendor.js (localhost)	None	3,770 KiB
/main.js (localhost)	None	791 KiB
/styles.js (localhost)	None	303 KiB
/polyfills.js (localhost)	None	297 KiB
/styles.css (localhost)	None	264 KiB
/scripts.js (localhost)	None	88 KiB
…Images/Scheduled.jpg (localhost)	None	59 KiB
…Images/Upcoming.jpg (localhost)	None	54 KiB
…Images/Current.jpg (localhost)	None	50 KiB
…Images/profile_.png (localhost)	None	23 KiB
/runtime.js (localhost)	None	7 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
…webfonts/fa-solid-900.woff2 (cdnjs.cloudflare.com)	370 ms

▲ Image elements do not have explicit `width` and `height`

Set an explicit width and height on image elements to reduce layout shifts and improve CLS. Learn more CLS

	URL
img.profile-img.mb-2	…Images/profile_.png (localhost)

▲ Avoid enormous network payloads — Total size was 5,884 KiB

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

Show 3rd-party resources (1)

URL	Transfer Size
/vendor.js (localhost)	3,770.3 KiB
/main.js (localhost)	791.4 KiB
/styles.js (localhost)	302.8 KiB
/polyfills.js (localhost)	297.3 KiB
/styles.css (localhost)	264.4 KiB
/scripts.js (localhost)	87.7 KiB
…webfonts/fa-solid-900.woff2 (cdnjs.cloudflare.com)	74.4 KiB
…Images/Scheduled.jpg (localhost)	59.5 KiB
…Images/Upcoming.jpg (localhost)	53.8 KiB
…Images/Current.jpg (localhost)	49.8 KiB

Minimize main-thread work — 3.1 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	1,394 ms
Other	1,008 ms
Parse HTML & CSS	284 ms
Style & Layout	256 ms
Script Parsing & Compilation	81 ms

Category	Time Spent
Rendering	71 ms
Garbage Collection	4 ms

Reduce JavaScript execution time — 1.4 s

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

Show 3rd-party resources (1)

URL	Total CPU Time	Script Evaluation	Script Parse
/styles.js (localhost)	1,090 ms	1,042 ms	25 ms
Unattributable	813 ms	25 ms	1 ms
http://localhost:4200	473 ms	6 ms	3 ms
http://localhost:4200	462 ms	220 ms	0 ms
/9cb8fe11af.js (kit.fontawesome.com)	68 ms	62 ms	1 ms

Avoid chaining critical requests — 13 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: **1,650 ms**

Initial Navigation

- http://localhost:4200
  - /css2?family=Heebo:wght@400;500;600;700&display=swap (fonts.googleapis.com) **- 320 ms, 0.88 KiB**
  - …css/all.min.css (cdnjs.cloudflare.com)
    - …webfonts/fa-solid-900.woff2 (cdnjs.cloudflare.com) **- 370 ms, 74.40 KiB**
  - …font/bootstrap-icons.css (cdn.jsdelivr.net) **- 350 ms, 9.09 KiB**
  - …css/bootstrap.min.css (cdn.jsdelivr.net) **- 350 ms, 23.83 KiB**
  - /css2?family=Roboto:wght@300;400;500&display=swap (fonts.googleapis.com)
    - …v30/KFOmCnqEu….woff2 (fonts.gstatic.com) **- 110 ms, 11.38 KiB**
    - …v30/KFOlCnqEu….woff2 (fonts.gstatic.com) **- 320 ms, 10.84 KiB**

/icon?family=Material+Icons (fonts.googleapis.com) **- 350 ms, 0.41 KiB**

/styles.css (localhost) **- 20 ms, 264.38 KiB**

/9cb8fe11af.js (kit.fontawesome.com) **- 320 ms, 4.37 KiB**

/runtime.js (localhost) **- 10 ms, 6.80 KiB**

/polyfills.js (localhost) **- 40 ms, 297.28 KiB**

/vendor.js (localhost) **- 90 ms, 3,770.30 KiB**

/main.js (localhost) **- 70 ms, 791.35 KiB**

User Timing marks and measures — 35 user timings

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

Name	Type	Start Time	Duration
Zone	Measure	867.23 ms	0.47 ms
Zone:ZoneAwarePromise	Measure	867.77 ms	0.63 ms
Zone:util	Measure	870.98 ms	1.92 ms
Zone:legacy	Measure	872.99 ms	0.01 ms
Zone:queueMicrotask	Measure	873.06 ms	0.04 ms
Zone:timers	Measure	873.17 ms	1.53 ms
Zone:requestAnimationFrame	Measure	874.84 ms	0.06 ms
Zone:blocking	Measure	874.98 ms	0.13 ms
Zone:EventTarget	Measure	875.12 ms	1.28 ms
Zone:MutationObserver	Measure	876.4 ms	0.2 ms
Zone:IntersectionObserver	Measure	876.64 ms	0.16 ms
Zone:FileReader	Measure	876.82 ms	0.18 ms
Zone:on_property	Measure	876.99 ms	27.91 ms
Zone:customElements	Measure	904.99 ms	0.41 ms
Zone:XHR	Measure	905.45 ms	0.36 ms

Name	Type	Start Time	Duration
Zone:geolocation	Measure	905.89 ms	0.21 ms
Zone:PromiseRejectionEvent	Measure	906.12 ms	0.08 ms
Zone	Mark	867.26 ms	
Zone:ZoneAwarePromise	Mark	867.78 ms	
Zone:toString	Mark	868.54 ms	
Zone:util	Mark	871 ms	
Zone:legacy	Mark	873 ms	
Zone:queueMicrotask	Mark	873.07 ms	
Zone:timers	Mark	873.17 ms	
Zone:requestAnimationFrame	Mark	874.86 ms	
Zone:blocking	Mark	874.99 ms	
Zone:EventTarget	Mark	875.12 ms	
Zone:MutationObserver	Mark	876.41 ms	
Zone:IntersectionObserver	Mark	876.65 ms	
Zone:FileReader	Mark	876.82 ms	
Zone:on_property	Mark	877 ms	
Zone:customElements	Mark	905.01 ms	
Zone:XHR	Mark	905.45 ms	
Zone:geolocation	Mark	905.9 ms	
Zone:PromiseRejectionEvent	Mark	906.12 ms	

Keep request counts low and transfer sizes small — 26 requests • 5,883 KiB

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

Resource Type	Requests	Transfer Size
Total	26	5,883.0 KiB
Script	7	5,260.6 KiB
Stylesheet	7	309.9 KiB
Image	4	186.2 KiB
Font	3	96.6 KiB
Other	4	27.5 KiB
Document	1	2.2 KiB
Media	0	0.0 KiB
Third-party	14	174.0 KiB

Largest Contentful Paint element — 1 element found

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

Element

img

Avoid long main-thread tasks — 8 long tasks found

Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. Learn more TBT

Show 3rd-party resources (1)

URL	Start Time	Duration
/styles.js (localhost)	32,098 ms	1,138 ms
/9cb8fe11af.js (kit.fontawesome.com)	4,530 ms	279 ms
Unattributable	742 ms	275 ms

URL	Start Time	Duration
http://localhost:4200	1,083 ms	226 ms
http://localhost:4200	615 ms	72 ms
Unattributable	1,017 ms	66 ms
http://localhost:4200	1,347 ms	60 ms
Unattributable	692 ms	50 ms

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

PASSED AUDITS (21) Hide

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 loading to lower time to interactive. Learn more.

Minify CSS

Minifying CSS files can reduce network payload sizes. Learn more. FCP LCP

Efficiently encode images

Optimized images load faster and consume less cellular data. Learn more.

Preconnect to required origins

Warnings:

- A `<link rel=preconnect>` was found for "https://fonts.gstatic.com" but was not used by the browser. Check that you are using the `crossorigin` attribute properly.
- More than 2 `<link rel=preconnect>` connections were found. These should be used sparingly and only to the most important origins.

Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connections to important third-party origins. Learn more. FCP LCP

Initial server response time was short — Root document took 10 ms

Keep the server response time for the main document short because all other requests depend on it. Learn more. FCP LCP

URL	Time Spent
http://localhost:4200	10 ms

Avoid multiple page redirects

Redirects introduce additional delays before the page can be loaded. Learn more. FCP LCP

Preload key requests

Consider using `<link rel=preload>` to prioritize fetching resources that are currently requested later in page load. Learn more. FCP LCP

Use HTTP/2

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

Use video formats for animated content

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

Avoid serving legacy JavaScript to modern browsers — Potential savings of 1 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. Learn More TBT

URL		Potential Savings
/polyfills.js (localhost)		0.2 KiB
polyfills.js:1054	`@babel/plugin-transform-classes`	
/styles.js (localhost)		0.2 KiB
styles.js:4680	`@babel/plugin-transform-classes`	
/vendor.js (localhost)		0.2 KiB

URL	Potential Savings
vendor.js:16295	@babel/plugin-transform-classes

Avoids an excessive DOM size — 73 elements

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

Statistic	Element	Value
Total DOM Elements		73
Maximum DOM Depth	a.text-white	12
Maximum Child Elements	body.mat-typography	7

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	85 KiB	0 ms
…webfonts/fa-solid-900.woff2 (cdnjs.cloudflare.com)	74 KiB	0 ms
…css/all.min.css (cdnjs.cloudflare.com)	10 KiB	0 ms
JSDelivr CDN	33 KiB	0 ms
…css/bootstrap.min.css (cdn.jsdelivr.net)	24 KiB	0 ms
…font/bootstrap-icons.css (cdn.jsdelivr.net)	9 KiB	0 ms
FontAwesome CDN	32 KiB	0 ms
…css/free.min.css?token=9cb8fe11af (ka-f.fontawesome.com)	21 KiB	0 ms
…css/free-v4-shims.min.css?token=9cb8fe11af (ka-f.fontawesome.com)	5 KiB	0 ms
/9cb8fe11af.js (kit.fontawesome.com)	4 KiB	0 ms

Third-Party	Transfer Size	Main-Thread Blocking Time
Google Fonts	24 KiB	0 ms
…v30/KFOmCnqEu….woff2 (fonts.gstatic.com)	11 KiB	0 ms
…v30/KFOlCnqEu….woff2 (fonts.gstatic.com)	11 KiB	0 ms

Lazy load third-party resources with facades

Some third-party embeds can be lazy loaded. Consider replacing them with a facade until they are required. Learn more. TBT

Largest Contentful Paint image was not lazily loaded

Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful paint. Learn more.

Element	
	img

Avoid large layout shifts

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

Uses passive listeners to improve scrolling performance

Consider marking your touch and wheel event listeners as `passive` to improve your page's scroll performance. Learn more.

Avoids `document.write()`

For users on slow connections, external scripts dynamically injected via `document.write()` can delay page load by tens of seconds. Learn more.

Avoid non-composited animations

Animations which are not composited can be janky and increase CLS. Learn more CLS

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

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

Avoids `unload` event listeners

The `unload` event does not fire reliably and listening for it can prevent browser optimizations like the Back-Forward Cache. Use `pagehide` or `visibilitychange` events instead. Learn more

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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.

NAMES AND LABELS

▲ Image elements do not have `[alt]` attributes

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

Failing Elements

img

img

img

▲ Links do not 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.

Failing Elements

a.img-card

a.img-card

a.img-card

These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

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. Learn more.

- 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.

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

PASSED AUDITS (10) Hide

- `[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.

- `[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.

- `[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. 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.

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. 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.

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. Learn more.

NOT APPLICABLE (32) Hide

`[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. Learn 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. Learn more.

- 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. Learn more.

- 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. Learn more.

- 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. Learn more.

- `[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 `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. Learn more.

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. 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.

`<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.

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.

`<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. Learn more.

Form elements have associated labels

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

Lists contain only `<li>` 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 (`<li>`) are contained within `<ul>` or `<ol>` parent elements

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

The document does not use `<meta http-equiv="refresh">`

Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. Learn more.

`<object>` elements have alternate text

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

No element has a `[tabindex]` value greater than 0

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

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

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

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

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

`[lang]` attributes have a valid value

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

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

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

Best Practices

TRUST AND SAFETY

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

GENERAL

Detected JavaScript libraries

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

Name	Version
jQuery	3.6.0
Angular	13.3.11

PASSED AUDITS (13)

Hide

Uses HTTPS

Uses HTTPS

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

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 browser errors logged to the console

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

No issues in the `Issues` panel in Chrome Devtools

Issues logged to the `Issues` panel in Chrome Devtools indicate unresolved problems. They can come from network request failures, insufficient security controls, and other browser concerns. Open up the Issues panel in Chrome DevTools for more details on each issue.

Page has valid source maps

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

URL	Map URL
/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)

NOT APPLICABLE (1) Hide

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.

▲ Image elements do not have `[alt]` attributes

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

Failing Elements

img

img

img

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. Learn More

Uncrawlable Link

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 Structured Data Testing Tool and the Structured Data Linter to validate structured data. Learn more.

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

PASSED AUDITS (9) 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 a 300 millisecond delay to user input. Learn more. 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. Learn more.

- Page has successful HTTP status code

Pages with unsuccessful HTTP status codes may not be indexed properly. Learn more.

- Links have descriptive text

Descriptive link text helps search engines understand your content. 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 uses legible font sizes — 100% legible text

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.

Source	Selector	% of Page Text	Font Size
`Legible text`		100.00%	≥ 12px

Document avoids plugins

Search engines can't index plugin content, and many devices restrict plugins or don't support them. Learn more.

Tap targets are sized appropriately — 100% appropriately sized tap targets

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. Learn more.

NOT APPLICABLE (2) Hide

robots.txt is valid

If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. Learn more.

Document has a valid `rel=canonical`

Canonical links suggest which URL to show in search results. Learn more.

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. 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 PWA Checklist 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 17, 2022, 9:13 AM GMT+5:30	Emulated Moto G4 with Lighthouse 9.6.1	Single page load
Initial page load	Slow 4G throttling	Using Chromium 103.0.0.0 with devtools

Generated by **Lighthouse** 9.6.1 | File an issue