

https://devbooks2022.herokuapp.com/











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

2.5 s

Total Blocking Time

0 ms

Speed Index

2.5 s

▲ Largest Contentful Paint

2.5 s

Cumulative Layout Shift

0.002

View Treemap

View Original Trace





Show audits relevant to: All FCP LCP TBT CLS

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OPPORTUNITIES

Opportunity Estimated Savings

A Reduce initial server response time

1.75s ^

Keep the server response time for the main document short because all other requests depend on it. <u>Learn more about the Time to First Byte metric</u>. FCP LCP

URL	Time Spent
Heroku Other 1st Party	1,850 ms
https://devbooks2022.herokuapp.com	1,850 ms

Eliminate render-blocking resources

0.29s ^

Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical JS/styles. Learn how to eliminate render-blocking resources. FCP LCP

URL	Transfer Size	Potential Savings
JSDelivr CDN Cdn	23.1 KiB	290 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	23.1 KiB	290 ms
Google Fonts Cdn	0.7 KiB	210 ms
/css2?family=Carter+One&display=swap (fonts.googleapis.com)	0.7 KiB	210 ms
Cloudinary Content	0.9 KiB	230 ms
css/style.f30129a5b105.css (res.cloudinary.com)	0.9 KiB	230 ms
FontAwesome CDN Cdn	4.2 KiB	210 ms
/6803f19786.js (kit.fontawesome.com)	4.2 KiB	210 ms

Serve images in next-gen formats

0.13s ^

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 about modern image formats</u>.

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	URL	Resource Size	Potential Savings
Cloudinary Content		350.1 KiB	157.8 KiB
body	v166/kelly-sikjpg (res.cloudinary.com)	226.9 KiB	115.5 KiB
1.order-lg-2.mx-auto.d-block	img. ml- lg- 5.or der- v168/q1zygpdp1ggid3sdkpmr.jpg (res.cloudin ary.com)	37.3 KiB	15.5 KiB
1.order-lg-2.mx-auto.d-block	img. ml- lg- 5.or der- v168/zsl6qunppuu1mbmuspr5.jpg (res.cloudi nary.com)	24.3 KiB	9.2 KiB
1.order-lg-2.mx-auto.d-block	img. ml- lg- 5.or der- v166/rk2cmccsfiqbnuvloaxb.jpg (res.cloudina ry.com)	33.4 KiB	8.8 KiB
1.order-lg-2.mx-auto.d-block	img. ml- lg- v166/dkca7nl2jss1cvffcji1.jpg (res.cloudinary. com)	28.2 KiB	8.8 KiB

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

DIAGNOSTICS

▲ Page prevented back/forward cache restoration — 1 failure reason

Many navigations are performed by going back to a previous page, or forwards again. The back/forward cache (bfcache) can speed up these return navigations. <u>Learn more about the bfcache</u>

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Failure reason	Failure type
Back/forward cache is disabled by flags. Visit edge://flags/#back-forward-cache to enable it locally on this device.	Not actionable
https://devbooks2022.herokuapp.com	

Serve static assets with an efficient cache policy — 13 resources found

A long cache lifetime can speed up repeat visits to your page. <u>Learn more about efficient cache policies</u>.

URL	Cache TTL	Transfer Size
Cloudinary Content		433 KiB
v166/kelly-sikjpg (res.cloudinary.com)	30d	227 KiB
v168/q1zygpdp1ggid3sdkpmr.jpg (res.cloudinary.com)	30d	38 KiB
v166/rk2cmccsfiqbnuvloaxb.jpg (res.cloudinary.com)	30d	34 KiB
v166/dkca7nl2jss1cvffcji1.jpg (res.cloudinary.com)	30d	28 KiB
v168/zsl6qunppuu1mbmuspr5.jpg (res.cloudinary.com)	30d	24 KiB
v166/i5lza2edlvt4pvrmgose.jpg (res.cloudinary.com)	30d	17 KiB
v168/lo2k7prmwfgu0bsea5ms.jpg (res.cloudinary.com)	30d	16 KiB
v166/tmvvxvbz71xs8dcx8zq5.jpg (res.cloudinary.com)	30d	14 KiB
v166/ko6bq1bipirsftl42yxq.jpg (res.cloudinary.com)	30d	12 KiB
v166/nbfovknyhi6dtl3m3p1r.jpg (res.cloudinary.com)	30d	11 KiB
v166/epqojzltqsnjc3wpukix.jpg (res.cloudinary.com)	30d	9 KiB
js/script.548f3a826ad9.js (res.cloudinary.com)	30d	1 KiB
css/style.f30129a5b105.css (res.cloudinary.com)	30d	1 KiB

Avoid chaining critical requests — 11 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.

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Learn how to avoid chaining critical requests. FCP LCP

Maximum critical path latency: 2,483.04 ms

Initial Navigation

https://devbooks2022.herokuapp.com

...css/bootstrap.min.css (cdn.jsdelivr.net) - 82.156 ms, 23.06 KiB

/css2?family=Carter+One&display=swap (fonts.googleapis.com)

...v17/q5uCsoe5l....woff2 (fonts.gstatic.com) - 52.834 ms, 26.78 KiB

/6803f19786.js (kit.fontawesome.com)

...js/script.548f3a826ad9.js (res.cloudinary.com) - **68.215 ms, 1.07 KiB**

/jquery-3.2.1.slim.min.js (code.jquery.com) - 120.493 ms, 23.54 KiB

...umd/popper.min.js (cdn.jsdelivr.net) - 30.833 ms, 7.19 KiB

...js/bootstrap.min.js (cdn.jsdelivr.net) - 36.231 ms, 13.77 KiB

 $... js/bootstrap.bundle.min. js \ (\verb|cdn.j|| sdelivr.net|) - 32.466 \ ms, \ 24.55 \ KiB$

...css/style.f30129a5b105.css (res.cloudinary.com) - 39.873 ms, 0.90 KiB

...webfonts/free-fa-brands-400.woff2 (ka-f.fontawesome.com) - 164.183 ms, 106.04 KiB

...webfonts/free-fa-regular-400.woff2 (ka-f.fontawesome.com) - 153.38 ms, 25.08 KiB

...webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com) - 208.945 ms, 147.16 KiB

O Keep request counts low and transfer sizes small — 30 requests • 959 KiB

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

Resource Type	Requests	Transfer Size
Total	30.0	959.3 KiB
Image	11.0	430.7 KiB
Font	4.0	305.1 KiB
Document	1.0	90.5 KiB
Script	6.0	74.4 KiB
Other	5.0	33.9 KiB
Stylesheet	3.0	24.7 KiB
Media	0.0	0.0 KiB
Third-party	30.0	959.3 KiB

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○ Largest Contentful Paint element — 1 element found

This is the largest contentful element painted within the viewport. <u>Learn more about the Largest Contentful Paint element</u>

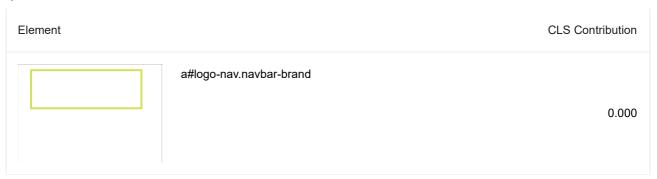


O Avoid large layout shifts — 5 elements found

These DOM elements contribute most to the CLS of the page. Learn how to improve CLS (CLS)

Element	CLS Contribution
div#navbarSupportedContent.collapse.navbar-collapse	0.001
h1#logo.display-4	0.001
div	0.000
div.btn-sm	0.000

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

PASSED AUDITS (31)

Properly size images — Potential savings of 63 KiB

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

	ı	URL	Resource Size	Potentia Savings
Cloudinary Content			98.9 KiB	62.7 KiE
1.order-lg-2.mx-auto.d-block	lg- 5.or	 v168/q1zygpdp1ggid3sdkpmr.jpg (res.cloudin ary.com)	37.3 KiB	23.6 KiE
1.order-lg-2.mx-auto.d-block	lg- 5.or	 v166/rk2cmccsfiqbnuvloaxb.jpg (res.cloudinar y.com)	33.4 KiB	21.3 KiE
1.order-lg-2.mx-auto.d-block	lg- 5.or	 v166/dkca7nl2jss1cvffcji1.jpg (res.cloudinary.c om)	28.2 KiB	17.9 Kil

Defer offscreen images

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. <u>Learn how to defer offscreen images</u>.

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Minify CSS

Minifying CSS files can reduce network payload sizes. Learn how to minify CSS. FCP [LCP]

Minify JavaScript

Minifying JavaScript files can reduce payload sizes and script parse time. Learn how to minify JavaScript. FCP LCP

Reduce unused CSS — Potential savings of 37 KiB

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

Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
Unattributable	20.2 KiB	20.0 KiB
<pre>/*! * Font Awesome Free 6.4.0 by @fontawesome - https://fontawesome.com * License - https://fonta</pre>	20.2 KiB	20.0 KiB
JSDelivr CDN Cdn	23.1 KiB	16.9 KiB
css/bootstrap.min.css (cdn.jsdelivr.net)	23.1 KiB	16.9 KiB

Reduce unused JavaScript — Potential savings of 20 KiB

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. <u>Learn how to reduce unused JavaScript</u>. (<u>LCP</u>)

URL	Transfer Size	Potential Savings
JSDelivr CDN Cdn	24.6 KiB	20.5 KiB
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	24.6 KiB	20.5 KiB
js/src/tooltip.js	2.6 KiB	2.2 KiB
js/src/dropdown.js	1.8 KiB	1.4 KiB
js/src/carousel.js	1.5 KiB	1.3 KiB
js/src/modal.js	1.4 KiB	1.3 KiB
js/src/collapse.js	1.0 KiB	1.0 KiB

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Efficiently encode images Optimized images load faster and consume less cellular data. Learn how to efficiently encode images. Enable text compression — Potential savings of 79 KiB Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. Learn more about text compression. FCP LCP Transfer Potential URL Size Savings Heroku Other 1st Party 90.2 KiB 79.2 KiB https://devbooks2022.herokuapp.com 90.2 KiB 79.2 KiB Preconnect to required origins Consider adding preconnect or dns-prefetch resource hints to establish early connections to important third-party origins. Learn how to preconnect to required origins. FCP LCP Avoid multiple page redirects Redirects introduce additional delays before the page can be loaded. Learn how to avoid page redirects. FCP [CCP] Preload key requests Consider using <link rel=preload> to prioritize fetching resources that are currently requested later in page load. Learn how to preload key requests. [FCP] [LCP] Use HTTP/2 HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn more about HTTP/2. 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 about efficient video formats [LCP] Remove duplicate modules in JavaScript bundles — Potential savings of 10 KiB Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity. TBT

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Source	Transfer Size	Potential Savings
//js/src/tooltip.js		3 KiB
js/bootstrap.min.js (cdn.jsdelivr.net)	3 KiB	
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	3 KiB	
//js/src/carousel.js		2 KiB
js/bootstrap.min.js (cdn.jsdelivr.net)	2 KiB	
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	2 KiB	
//js/src/dropdown.js		2 KiB
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	2 KiB	
js/bootstrap.min.js (cdn.jsdelivr.net)	2 KiB	
//js/src/modal.js		1 KiB
js/bootstrap.min.js (cdn.jsdelivr.net)	2 KiB	
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	1 KiB	
Other		1 KiB
js/bootstrap.min.js (cdn.jsdelivr.net)		
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)		
//js/src/scrollspy.js		1 KiB
js/bootstrap.min.js (cdn.jsdelivr.net)	1 KiB	
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	1 KiB	
//js/src/collapse.js		1 KiB
js/bootstrap.min.js (cdn.jsdelivr.net)	1 KiB	
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	1 KiB	

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. Learn how to use modern JavaScript (TBT)

URL	Potential Savings
JSDelivr CDN Cdn	0.1 KiB
umd/popper.min.js (cdn.jsdelivr.net)	0.1 KiB

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URL		Potential Savings
popper.min.js:4	@babel/plugin-transform-classes	

Preload Largest Contentful Paint image

If the LCP element is dynamically added to the page, you should preload the image in order to improve LCP. <u>Learn more about preloading LCP elements</u>. <u>(LCP)</u>

Avoids enormous network payloads — Total size was 959 KiB

Large network payloads cost users real money and are highly correlated with long load times. <u>Learn how to reduce payload sizes</u>. <u>LCP</u>

Show 3rd-party resources (9)

	Control of a painty recognises (e)
URL	Transfer Size
Cloudinary Content	327.0 KiB
v166/kelly-sikjpg (res.cloudinary.com)	227.4 KiB
v168/q1zygpdp1ggid3sdkpmr.jpg (res.cloudinary.com)	37.6 KiB
v166/rk2cmccsfiqbnuvloaxb.jpg (res.cloudinary.com)	33.6 KiB
v166/dkca7nl2jss1cvffcji1.jpg (res.cloudinary.com)	28.5 KiB
FontAwesome CDN Cdn	278.3 KiB
webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com)	147.2 KiB
webfonts/free-fa-brands-400.woff2 (ka-f.fontawesome.com)	106.0 KiB
webfonts/free-fa-regular-400.woff2 (ka-f.fontawesome.com)	25.1 KiB
Heroku Other 1st Party	90.5 KiB
https://devbooks2022.herokuapp.com	90.5 KiB
Google Fonts Cdn	26.8 KiB
v17/q5uCsoe5Iwoff2 (fonts.gstatic.com)	26.8 KiB
JSDelivr CDN Cdn	24.6 KiB

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URL	Transfer Size
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	24.6 KiB

Avoids an excessive DOM size — 656 elements

A large DOM will increase memory usage, cause longer <u>style calculations</u>, and produce costly <u>layout reflows</u>. <u>Learn how to avoid an excessive DOM size</u>. (TBT)

Statistic	Element	Value
Total DOM Elements		656
Maximum DOM Depth	span.text-muted.font-weight-normal	17
Maximum Child Elements	div.media-body.order- 2.order-lg-1	12

User Timing marks and measures

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

JavaScript execution time — 0.0 s

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn how to reduce Javascript execution time. TBT

URL	Total CPU Time	Script Evaluation	Script Parse
Unattributable	200 ms	7 ms	0 ms
Unattributable	200 ms	7 ms	0 ms
Heroku Other 1st Party	147 ms	3 ms	1 ms
https://devbooks2022.herokuapp.com	147 ms	3 ms	1 ms

Minimizes main-thread work — 0.4 s

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Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. Learn how to minimize main-thread work (TBT)

Category	Time Spent
Other	262 ms
Script Evaluation	61 ms
Style & Layout	47 ms
Parse HTML & CSS	21 ms
Rendering	19 ms
Script Parsing & Compilation	6 ms
Garbage Collection	4 ms

All text remains visible during webfont loads

Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. <u>Learn more about font-display</u>. FCP <u>(LCP)</u>

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 how to minimize third-party impact. TBT

Third-Party	Transfer Size	Main-Thread Blocking Time
Cloudinary Content	437 KiB	0 ms
v166/kelly-sikjpg (res.cloudinary.com)	227 KiB	0 ms
v168/q1zygpdp1ggid3sdkpmr.jpg (res.cloudinary.com)	38 KiB	0 ms
v166/rk2cmccsfiqbnuvloaxb.jpg (res.cloudinary.com)	34 KiB	0 ms
v166/dkca7nl2jss1cvffcji1.jpg (res.cloudinary.com)	28 KiB	0 ms
v168/zsl6qunppuu1mbmuspr5.jpg (res.cloudinary.com)	24 KiB	0 ms
Other resources	85 KiB	0 ms
FontAwesome CDN Cdn	312 KiB	0 ms
webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com)	147 KiB	0 ms
webfonts/free-fa-brands-400.woff2 (ka-f.fontawesome.com)	106 KiB	0 ms
webfonts/free-fa-regular-400.woff2 (ka-f.fontawesome.com)	25 KiB	0 ms

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Third-Party	Transfer Size	Main-Thread Blocking Time
css/free.min.css?token=6803f19786 (ka-f.fontawesome.com)	23 KiB	0 ms
JSDelivr CDN Cdn	69 KiB	0 ms
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	25 KiB	0 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	23 KiB	0 ms
js/bootstrap.min.js (cdn.jsdelivr.net)	14 KiB	0 ms
umd/popper.min.js (cdn.jsdelivr.net)	7 KiB	0 ms
Google Fonts Cdn	27 KiB	0 ms
v17/q5uCsoe5Iwoff2 (fonts.gstatic.com)	27 KiB	0 ms
jQuery CDN Cdn	24 KiB	0 ms
/jquery-3.2.1.slim.min.js (code.jquery.com)	24 KiB	0 ms

Lazy load third-party resources with facades

Some third-party embeds can be lazy loaded. Consider replacing them with a facade until they are required. <u>Learn how to defer third-parties with a facade</u>. (TBT)

Largest Contentful Paint image was not lazily loaded

Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful paint. <u>Learn more about optimal lazy loading.</u> <u>LCP</u>



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 about adopting passive event listeners</u>.

Avoids document.write()

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

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delay to user input. Learn more about using the viewport meta tag. TBT

Avoid long main-thread tasks

Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. Learn how to avoid long main-thread tasks (TBT)

Avoid non-composited animations

Animations which are not composited can be janky and increase CLS. Learn how to avoid non-composited animations (CLS)

Image elements have explicit width and height

Set an explicit width and height on image elements to reduce layout shifts and improve CLS. Learn how to set image dimensions (CLS)

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

A <meta name="viewport"> not only optimizes your app for mobile screen sizes, but also prevents a 300 millisecond



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)	Hide
The page has a logical tab order	^
Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more about logical tab ordering</u> .	
Interactive controls are keyboard focusable	^
Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn how to make custom controls focusable</u> .	
Interactive elements indicate their purpose and state	^

Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. <u>Learn how to decorate interactive elements with affordance hints</u>.

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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. <u>Learn how to direct focus to new content</u> .	
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 how to avoid focus tra	<u>ıps</u> .
Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more about custom controls and labels</u> .	
O Custom controls have ARIA roles	^
Custom interactive controls have appropriate ARIA roles. <u>Learn how to add roles to custom controls</u> .	
O Visual order on the page follows DOM order	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more about DOM and visual ordering</u> .	
O Offscreen content is hidden from assistive technology	^
Offscreen content is hidden with display: none or aria-hidden=true. Learn how to properly hide offscreen content.	
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 about landmark elements.</nav></main>	
These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessil review.	<u>oility</u>
PASSED AUDITS (20)	Hide
[aria-*] attributes match their roles	^
Each ARIA role supports a specific subset of aria-* attributes. Mismatching these invalidates the aria-* attributes. <u>Learn how to match ARIA attributes to their roles.</u>	
[aria-hidden="true"] is not present on the document <body></body>	^
Assistive technologies, like screen readers, work inconsistently when aria-hidden="true" is set on the document document body.	

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[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 about roles and required attributes. [role] values are valid ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more about valid ARIA roles. [aria-*] attributes have valid values Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn more about valid values for ARIA attributes. [aria-*] attributes are valid and not misspelled Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more about valid ARIA attributes. 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 how to make buttons more accessible. ARIA IDs are unique The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. Learn how to fix duplicate ARIA IDs. 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 about the alt attribute. [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 about the viewport meta tag.

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 how aria-hidden affects focusable elements</u>.

[aria-hidden="true"] elements do not contain focusable descendents

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Background and foreground colors have a sufficient contrast ratio Low-contrast text is difficult or impossible for many users to read. Learn how to provide sufficient color contrast. 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 about document titles. [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 how to fix duplicate ids. <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 about the lang attribute. html element has a valid value for its [lang] attribute Specifying a valid BCP 47 language helps screen readers announce text properly. Learn how to use the lang attribute. Links have a discernible name Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. Learn how to make links accessible. Lists contain only elements and script supporting elements (<script> and <template>). Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. Learn more about proper list structure. List items () are contained within , or <menu> parent elements Screen readers require list items () to be contained within a parent , or <menu> to be announced properly. Learn more about proper list structure. 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 about heading order.

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NOT APPLICABLE (24) 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 about access keys. O button, link, and menuitem elements have accessible names When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn how to make command elements more accessible 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 about input field labels. ARIA meter elements have accessible names When a meter 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 how to name meter elements. 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 how to label progressbar elements. 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 about roles and required children elements. [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 about ARIA roles and required parent element. 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 about toggle fields. ARIA tooltip elements have accessible names When a tooltip element doesn't have an accessible name, screen readers announce it with a generic name, making it

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unusable for users who rely on screen readers. <u>Learn how to name tooltip elements</u>.

ARIA treeitem elements have accessible names	^
When a treeitem element doesn't have an accessible name, screen readers announce it with a generic name, make unusable for users who rely on screen readers. <u>Learn more about labeling treeitem elements</u> .	king it
The page contains a heading, skip link, or landmark region	^
Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. <u>Learn more about by blocks.</u>	<u>ypass</u>
<dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</td><td>^</td></tr><tr><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn structure definition lists correctly</u>.</td><td>how to</td></tr><tr><td>O Definition list items are wrapped in <dl> elements</td><td>^</td></tr><tr><td>Definition list items (<dt> and <dd>) must be wrapped in a parent <dl> element to ensure that screen readers can parent announce them. Learn how to structure definition lists correctly.</td><td>oroperly</td></tr><tr><td>No form fields have multiple labels</td><td>^</td></tr><tr><td>Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which us the first, the last, or all of the labels. <u>Learn how to use form labels</u>.</td><td>e either</td></tr><tr><td><frame> or <iframe> elements have a title</td><td>^</td></tr><tr><td>Screen reader users rely on frame titles to describe the contents of frames. <u>Learn more about frame titles</u>.</td><td></td></tr><tr><td><pre><input type="image"> elements have [alt] text</pre></td><td>^</td></tr><tr><td>When an image is being used as an <input> button, providing alternative text can help screen reader users underst the purpose of the button. Learn about input image alt text.</td><td>tand</td></tr><tr><td>Form elements have associated labels</td><td>^</td></tr><tr><td>Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more a form element labels.</td><td><u>about</u></td></tr><tr><td>The document does not use <meta http-equiv="refresh"></td><td>^</td></tr><tr><td>Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This move a frustrating or confusing experience. Learn more about the refresh meta tag.</td><td>nay</td></tr><tr><td>O <object> elements have alternate text</td><td></td></tr></tbody></table></script></dd></dt></dl>	

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

O 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 about the tabindex attribute</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 about the headers attribute.

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 about table headers</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> <u>how to use the lang attribute</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. <u>Learn more about video captions</u>.



Best Practices

USER EXPERIENCE

Displays images with incorrect aspect ratio

Image display dimensions should match natural aspect ratio. Learn more about image aspect ratio.

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	URL	Aspect Ratio (Displayed)	Aspect Ratio (Actual)
Cloudinary Content			
i			
g. m I-	v166/rk2cmccsfiqbnuvloaxb.jpg (res.cloudi nary.com)	200 x 300 (0.67)	331 x 500 (0.66)
lg-5.order-1.order-lg-2.mx-auto.d- block			
i			
g. m I-	v166/dkca7nl2jss1cvffcji1.jpg (res.cloudinar y.com)	200 x 300 (0.67)	327 x 500 (0.65)
lg-5.order-1.order-lg-2.mx-auto.d- block			
i			
g. m I-	v168/q1zygpdp1ggid3sdkpmr.jpg (res.cloudinary.com)	200 x 300 (0.67)	326 x 500 (0.65)
lg-5.order-1.order-lg-2.mx-auto.d- block			
i			
g. m I-	v168/lo2k7prmwfgu0bsea5ms.jpg (res.cloudinary.com)	200 x 300 (0.67)	200 x 320 (0.63)
lg-5.order-1.order-lg-2.mx-auto.d- block	umary.com)		
i			
g. m	v166/tmvvxvbz71xs8dcx8zq5.jpg (res.clou	200 x 300 (0.67)	200 x 318 (0.63)
l- lg-5.order-1.order-lg-2.mx-auto.d- block	dinary.com)	` '	,
i		200 x 300	200 x 305
g. m	v166/nbfovknyhi6dtl3m3p1r.jpg (res.cloudi nary.com)	(0.67)	(0.66)

	URL	Aspect Ratio (Displayed)	Aspect Ratio (Actual)
lg-5.order-1.order-lg-2.mx-auto.d-block i m g. m l- lg-5.order-1.order-lg-2.mx-auto.d-block	v166/i5lza2edlvt4pvrmgose.jpg (res.cloudi nary.com)	200 x 300 (0.67)	201 x 291 (0.69)
i m g. m I- Ig-5.order-1.order-Ig-2.mx-auto.d- block	v168/zsl6qunppuu1mbmuspr5.jpg (res.clo udinary.com)	200 x 300 (0.67)	200 x 285 (0.70)
i m g. m I- Ig-5.order-1.order-Ig-2.mx-auto.d-block	v166/epqojzltqsnjc3wpukix.jpg (res.cloudin ary.com)	200 x 300 (0.67)	187 x 270 (0.69)

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. <u>Learn how to use</u> a <u>CSP to prevent XSS</u>

Description	Directive	Severity
No CSP found in enforcement mode		High

GENERAL

Detected JavaScript libraries

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All front-end JavaScript libraries detected on the page. Learn more about this JavaScript library detection diagnostic audit.

Name	Version
Bootstrap	5.2.3
jQuery	3.2.1

PASSED AUDITS (12)	Hide
Uses HTTPS	^
All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding mixed converse 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 in	,
prerequisite for HTTP/2 and many new web platform APIs. Learn more about HTTPS.	

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. <u>Learn more about the geolocation permission</u>.

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. <u>Learn more about responsibly getting permission for notifications</u>.

Allows users to paste into input fields

Preventing input pasting is a bad practice for the UX, and weakens security by blocking password managers. <u>Learn more about user-friendly input fields</u>.

Serves images with appropriate resolution

Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. <u>Learn how to provide responsive images</u>.

Page has the HTML doctype

Specifying a doctype prevents the browser from switching to quirks-mode. Learn more about the doctype declaration.

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 about declaring the character encoding</u>.

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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. <u>Learn more about unload event listeners</u>

Avoids deprecated APIs

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

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 about this errors in console diagnostic audit</u>

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. <u>Learn more about source maps</u>.

URL	Map URL
JSDelivr CDN Cdn	
umd/popper.min.js (cdn.jsdelivr.net)	umd/popper.min.js.map (cdn.jsdelivr.net)
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	js/bootstrap.bundle.min.js.map (cdn.jsdelivr.net)
js/bootstrap.min.js (cdn.jsdelivr.net)	js/bootstrap.min.js.map (cdn.jsdelivr.net)

NOT APPLICABLE (1)

• Fonts with font-display: optional are preloaded

•

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

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ADDITIONAL ITEMS TO MANUALLY CHECK (1)



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 about Google Search Essentials.

Hide

O Sti	ructured data is valid	^
	the <u>Structured Data Testing Tool</u> and the <u>Structured Data Linter</u> to validate structured data. <u>Learn more about</u> <u>ctured Data</u> .	
Run these	e additional validators on your site to check additional SEO best practices.	
PASSED	AUDITS (10)	Hide
На	as a <meta name="viewport"/> tag with width or initial-scale	^
	eta name="viewport"> not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond</u> y to user input. <u>Learn more about using the viewport meta tag</u> . <u>TBT</u>	
Do	ocument has a <title> element</td><td>^</td></tr><tr><td></td><td>title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a is relevant to their search. Learn more about document titles.</td><td></td></tr><tr><td>Do</td><td>ocument has a meta description</td><td>^</td></tr><tr><td></td><td>descriptions may be included in search results to concisely summarize page content. <u>Learn more about the meta</u> <u>ription</u>.</td><td></td></tr><tr><td>Pa</td><td>nge has successful HTTP status code</td><td>^</td></tr><tr><td>Page</td><td>es with unsuccessful HTTP status codes may not be indexed properly. Learn more about HTTP status codes.</td><td></td></tr><tr><td>Lir</td><td>nks have descriptive text</td><td>^</td></tr><tr><td>Desc</td><td>criptive link text helps search engines understand your content. Learn how to make links more accessible.</td><td></td></tr><tr><td>Lir</td><td>nks are crawlable</td><td>^</td></tr></tbody></table></title>	

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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 how to make links crawlable

	^
Search engines are unable to include your pages in search results if they don't have permission to crawl them. <u>Learn mabout crawler directives</u> .	<u>ore</u>
Image elements have [alt] attributes	^
Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty attribute. Learn more about the alt attribute.	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 Learn more about hreflang.	
Document avoids plugins	^
Search engines can't index plugin content, and many devices restrict plugins or don't support them. <u>Learn more about avoiding plugins</u> .	
NOT APPLICABLE (4)	Hide
NOT APPLICABLE (4) o robots.txt is valid	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	
orobots.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 about robots.txt.	^
 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 about robots.txt. Document has a valid rel=canonical 	^
 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 about robots.txt. Document has a valid rel=canonical Canonical links suggest which URL to show in search results. Learn more about canonical links. 	^

Interactive elements like buttons and links should be large enough (48x48px), or have enough space around them, to be

easy enough to tap without overlapping onto other elements. Learn more about tap targets.

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PWA

These checks validate the aspects of a Progressive Web App. <u>Learn what makes a good Progressive Web App</u>.

INSTALLABLE

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

Service worker is the technology that enables your app to use many Progressive Web App features, such as 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 about manifest installability requirements.

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 about Service Workers</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 about splash screens</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 about theming the address bar.

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 how to size content for the viewport</u>.

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

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

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 about maskable manifest icons.

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 about cross-browser compatibility.

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 about page transitions</u>.

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 about providing deep links</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 Jun 24, 2023, 3:29

Emulated Desktop with

Single page load

PM GMT+2 Initial page load Lighthouse 10.1.1
Custom throttling

Using Chromium 114.0.0.0 with

devtools

Generated by Lighthouse 10.1.1 | File an issue

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