



### Performance

rics			_
First Contentful Paint	1.9 s	First Meaningful Paint	3.7 s
First Contentful Paint marks the time at		First Meaningful Paint measures when the	
which the first text or image is painted. <u>Learn</u>		primary content of a page is visible. <u>Learn</u>	
more.		more.	
Speed Index	1.9 s	First CPU Idle	3.7 s
Speed Index shows how quickly the contents		First CPU Idle marks the first time at which	
of a page are visibly populated. <u>Learn more</u> .		the page's main thread is quiet enough to	
		handle input. <u>Learn more</u> .	
Time to Interactive	3.7 s		
Time to interactive is the amount of time it		Max Potential First Input Delay	70 ms
takes for the page to become fully		The maximum potential First Input Delay that	
interactive. <u>Learn more</u> .		your users could experience is the duration,	
		in milliseconds, of the longest task. Learn	
		more.	

#### View Trace

Values are estimated and may vary. The performance score is based only on these metrics.



















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

Opportunity Estimated Savings

Eliminate render-blocking resources

0.56 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>.

/ styles/desktop.css (127.0.0.1) 39 KB 910 ms / styles/mobile.css (127.0.0.1) 7 KB 460 ms / styles/mobile.css (127.0.0.1) 7 KB 460 ms / styles/mobile.css (127.0.0.1) 7 KB 460 ms / styles/hablet.css (127.0.0.1) 7 KB 4 KB / styles/desktop.css (127.0.0.1) 7 KB 4 KB / styles/hablet.css (127.0.0.1) 7 KB 4 KB / styles/stars.css (127.0.0.1) 7 KB 4 KB / styles/mobile.css (127.0.0.1) 7 KB 4 KB / styles/hablet.css (127.0.0.1) 9 ms / styles/		Show 3rd-party re	sources (0)
Astyles/mobile css (127.0.0.1)	URL	Size	Potential Savings
Astyles/andel.css (127.0.0.1)	/styles/desktop.css (127.0.0.1)	39 KB	910 ms
/styles/modal.css (127.0.0.1) 5 KB 460 ms /styles/tablet.css (127.0.0.1) 3 KB 310 ms  Minify CSS 0.15 s Aminifying CSS files can reduce network payload sizes. Learn more:    Show-3rd-party-resources (0)	/styles/mobile.css (127.0.0.1)	7 KB	460 ms
Minify CSS  Minifying CSS files can reduce network payload sizes. Learn more.    Show-3rd-party-resources (0)	/styles/stars.css (127.0.0.1)	7 KB	460 ms
Minify CSS  Minifying CSS files can reduce network payload sizes. Learn more    Show-3rd-party-resources (0)	/styles/modal.css (127.0.0.1)	5 KB	460 ms
Minifying CSS files can reduce network payload sizes, Learn more.    Show-3rd-perty recourses (0)	/styles/tablet.css (127.0.0.1)	3 KB	310 ms
URL    Size   Potentia Savings	Minify CSS		0.15 s ^
URL  /styles/desktop.css (127.0.0.1)  /styles/stars.css (127.0	Minifying CSS files can reduce network payload sizes. <u>Learn more</u> .		
/styles/desktop.css (127.0.0.1) 39 KB 14 KB /styles/stars.css (127.0.0.1) 7 KB 6 KB /styles/mobile.css (127.0.0.1) 7 KB 4 KB /styles/mobile.css (127.0.0.1) 8 CSS feature to ensure text is user-visible while webfonts are loading. Learn more.  URL /font-styles/ARCADECLASSIC.TTF (127.0.0.1) 0 ms /font-styles/ka1.ttf (127.0.0.1) 0 ms /font-styles/ka0btoMono-Regular.ttf (127.0.0.1) 10 ms  Minimize main-thread work — 2.1 s Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this: Learn more  Category Time Spen Other 731 ms Style & Layout 615 ms Rendering 471 ms		Show 3rd-party re	sources (0)
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/styles/mobile.css (127.0.0.1)  7 KB 4 KB  Alagnostics — More information about the performance of your application. These numbers don't directly affect the erformance score.  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.  Show-3rd-party-receurees (0)  URL  Potential Savings  /font-styles/ARCADECLASSIC.TTF (127.0.0.1)  O ms  /font-styles/RobotoMono-Regular.ttf (127.0.0.1)  Minimize main-thread work — 2.1 s  Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. Learn more  Category  Time Spen Other  731 ms  Style & Layout  615 ms Rendering	/styles/desktop.css (127.0.0.1)	39 KB	14 KB
inagnostics — More information about the performance of your application. These numbers don't directly affect the erformance score.  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.  Show-3rd-party-resources (0)  URL  Potentia Savings  //font-styles/ARCADECLASSIC.TTF (127.0.0.1)  0 ms  //font-styles/RabotoMono-Regular.ttf (127.0.0.1)  Minimize main-thread work — 2.1 s  Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. Learn more  Category  Time Spen Other  731 ms Style & Layout  615 ms Rendering	/styles/stars.css (127.0.0.1)	7 KB	6 KB
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.  Show 3rd party resources (0)  URL  Potentia Savings  /font-styles/ARCADECLASSIC.TTF (127.0.0.1)  O ms  /font-styles/RobotoMono-Regular.ttf (127.0.0.1)  Minimize main-thread work — 2.1 s  Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. Learn more  Category  Time Spen  Other  731 ms  Style & Layout  615 ms  Rendering	/styles/mobile.css (127.0.0.1)	7 KB	4 KB
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With this. Learn more  Category  Other  Style & Layout  Rendering  Time Spendering  731 ms  615 ms  471 ms			Savings 0 ms 0 ms
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Script Evaluation 151 ms	/font-styles/RobotoMono-Regular.ttf (127.0.0.1)  Minimize main-thread work — 2.1 s  Consider reducing the time spent parsing, compiling and executing JS. You may with this. Learn more  Category  Other	ι find delivering smaller JS payloaι	Savings  0 ms  0 ms  10 ms  the second of th
	/font-styles/RobotoMono-Regular.ttf (127.0.0.1)  Minimize main-thread work — 2.1 s  Consider reducing the time spent parsing, compiling and executing JS. You may with this. Learn more  Category  Other  Style & Layout	r find delivering smaller JS payload	0 ms 10 ms  ds helps  Time Spent 731 ms 615 ms

Category Time Spent

Parse HTML & CSS 114 ms

Script Parsing & Compilation 14 ms

Avoid chaining critical requests — 10 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: 280 ms

Initial Navigation

/index.html (127.0.0.1)

/styles/desktop.css (127.0.0.1) - 10 ms, 39.22 KB

/styles/mobile.css (127.0.0.1) - 10 ms, 6.69 KB

/styles/stars.css (127.0.0.1) - 20 ms, 6.95 KB

/styles/modal.css (127.0.0.1) - 20 ms, 4.85 KB

/styles/tablet.css (127.0.0.1) - 20 ms, 3.25 KB

/main.js (127.0.0.1) - 20 ms, 26.7 KB

/starAnimation.js (127.0.0.1) - 10 ms, 6.04 KB

/font-styles/ARCADECLASSIC.TTF (127.0.0.1) - 0 ms, 17.26 KB

/font-styles/ka1.ttf (127.0.0.1) - 0 ms, 55.94 KB

/font-styles/RobotoMono-Regular.ttf (127.0.0.1) - 10 ms, 213.67 KB

Keep request counts low and transfer sizes small — 37 requests • 604 KB

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

Resource Type	Requests	Transfer Size
Total	37	604 KB
Font	3	287 KB
Image	22	148 KB
Stylesheet	5	61 KB
Document	1	61 KB
Script	2	33 KB
Other	4	15 KB
Media	0	0 KB
Third-party	0	0 KB

Passed audits (18)

Serve images that are appropriately-sized to save cellular data and improve load time. <u>Learn more</u> .	
Defer offscreen images	^
Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. <u>Learn more</u> .	
Minify JavaScript	^
Minifying JavaScript files can reduce payload sizes and script parse time. <u>Learn more</u> .	
Remove unused CSS	^
Remove dead rules from stylesheets and defer the loading of CSS not used for above-the-fold content to reduce unnecessary bytes consumed by network activity. <u>Learn more</u> .	
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. <u>Learn more</u> .	
Enable text compression	^
Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. <u>Learn more</u> .	
Preconnect to required origins	^
Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connections to important third-party origins <a href="Learn more"><u>Learn more</u></a> .	3.
Server response times are low (TTFB) — Root document took 10 ms	^
Time To First Byte identifies the time at which your server sends a response. <u>Learn more</u> .	
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. <u>Learn more</u> .	
Preload key requests	^
Consider using ` <li>k rel=preload&gt;` to prioritize fetching resources that are currently requested later in page load. <a href="Learn"><u>Learn</u></a> <a href="more"><u>more</u></a>.</li>	
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. <u>Learn more</u>	
Avoids enormous network payloads — Total size was 604 KB	^
Large network payloads cost users real money and are highly correlated with long load times. <u>Learn more</u> .	
Show 3rd party resources	(0)
URL	Size

inidex.html (127.0.0.1) 61 K  //font-styles/ka1.ttf (127.0.0.1) 56 K  //styles/des/ks0.css (127.0.0.1) 39 K  //cons/fdcs/k20text.svg (127.0.0.1) 29 K  //cons/fdcs/k20text.svg (127.0.0.1) 29 K  //main.js (127.0.0.1) 27 K  //font-styles/ARCADECLASSIC.TTF (127.0.0.1) 17 K  //cons/CPUT%20logo.svg (127.0.0.1) 27 K  //cons/CPUT%20logo.svg (127.0.0.1) 9 K  Uses efficient cache policy on static assets — 0 resources found  A long cache lifetime can speed up repeat visits to your page. Learn more.  Avoids an excessive DOM size — 798 elements  A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn more.  Statistic Element Val  Total DOM Elements 40 class="star-container"> 5  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. Learn more.  JavaScript execution time — 0.2 s  Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn more.  URL Total CPU Time Script Evaluation Script Part Main, is 11 ms 21 ms 4 ms / main, is (127.0.0.1) 8 ms 58 ms 7 ms	/index.html (127.0.0.1) /font-styles/ka1.ttf (127.0.0.1) /styles/desktop.css (127.0.0.1) /icons/fcc%20text.svg (127.0.0.1) /icons/Microsoft%20logo.svg (127.0.0.1)	214 KB 61 KB 56 KB 39 KB 39 KB 29 KB
flont-styles/ka1.tif (127.0.0.1)	/font-styles/ka1.ttf (127.0.0.1) /styles/desktop.css (127.0.0.1) /icons/fcc%20text.svg (127.0.0.1) /icons/Microsoft%20logo.svg (127.0.0.1)	56 KB 39 KB 39 KB 29 KB
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//icons/fbc%20text.svg (127.0.0.1)	/icons/fcc%20text.svg (127.0.0.1) /icons/Microsoft%20logo.svg (127.0.0.1)	39 KB 29 KB
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/main.js (127.0.0.1) 27 K //font-styles/ARCADECLASSIC.TTF (127.0.0.1) 17 K //font-styles/ARCADECLASSIC.TTF (127.0.0.1) 17 K //foons/Unisa%20logo.svg (127.0.0.1) 12 K //foons/CPUT%20logo.svg (127.0.0.1) 9 K  Uses efficient cache policy on static assets — 0 resources found A long cache lifetime can speed up repeat visits to your page. Learn more.  Avoids an excessive DOM size — 798 elements A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn more.  Statistic Element Val  Total DOM Elements 4div class="star-container"> 5  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. Learn more.  JavaScript execution time — 0.2 s  Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn more.  URL Total CPU Script Evaluation Script Part other 1,935 ms 21 ms 4 mr //main.js (127.0.0.1) 88 ms 58 ms 7 mr		
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Uses efficient cache policy on static assets — 0 resources found  A long cache lifetime can speed up repeat visits to your page. Learn more.  Avoids an excessive DOM size — 798 elements  A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn more.  Statistic Element Val  Total DOM Elements 75  Maximum DOM Depth	/icons/Unisa%20logo.svg (127.0.0.1)	12 KB
A long cache lifetime can speed up repeat visits to your page. Learn more.  Avoids an excessive DOM size — 798 elements  A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn more.  Statistic Element Val  Total DOM Elements 78  Maximum DOM Depth	/icons/CPUT%20logo.svg (127.0.0.1)	9 KB
Avoids an excessive DOM size — 798 elements  A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn more.  Statistic Element Val  Total DOM Elements 75  Maximum DOM Depth	Uses efficient cache policy on static assets — 0 resources found	^
A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn more.  Statistic Element Val Total DOM Elements 75 Maximum DOM Depth	A long cache lifetime can speed up repeat visits to your page. <u>Learn more</u> .	
Statistic Element Val  Total DOM Elements 75  Maximum DOM Depth	Avoids an excessive DOM size — 798 elements	^
Total DOM Elements  Maximum DOM Depth  Maximum Child Elements  div class="star-container">  Consider instrumenting your app with the User Timing API to measure your app's real-world performance during key user experiences. Learn more.  JavaScript execution time — 0.2 s  Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn more.  Chew 3rd-party resources (Container)  Total CPU Time Script Evaluation Script Part Time Other 1,935 ms 21 ms 4 mr /main.js (127.0.0.1)	A large DOM will increase memory usage, cause longer <u>style calculations</u> , and produce costly <u>layout reflows</u> .	<u>Learn more</u> .
Maximum DOM Depth  Maximum Child Elements  div class="star-container">  Star-container">  Maximum Child Elements  div class="star-container">  Star-container">  Star-containe	Statistic Element	Value
Maximum Child Elements  div class="star-container"> 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. Learn more. JavaScript execution time — 0.2 s Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn more. Show 3rd-party resources (Container) URL Total CPU Time Script Evaluation Script Part April 1,935 ms 21 ms 4 m /main.js (127.0.0.1) 88 ms 58 ms 7 m	Total DOM Elements	798
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. Learn more.  JavaScript execution time — 0.2 s  Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn more.  Show 3rd-party resources (CURL  Total CPU Time Script Evaluation Script Part Main.js (127.0.0.1)  88 ms 58 ms 7 m	Maximum DOM Depth      	9
Consider instrumenting your app with the User Timing API to measure your app's real-world performance during key user experiences. Learn more.  JavaScript execution time — 0.2 s  Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn more.  Show 3rd-party resources (CURL Time Script Evaluation Script Party Time Script Evaluation Script Party Time Script Evaluation Script Party Main.js (127.0.0.1)	Maximum Child Elements <div class="star-container"></div>	50
experiences. Learn more.  JavaScript execution time — 0.2 s  Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn more.  Show 3rd-party resources (CURL Total CPU Time Script Evaluation Script Part (CPU Time) Script Evaluation Script Evaluation Script Part (CPU Time) Script Part	User Timing marks and measures	^
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with this. Learn more.  Show 3rd-party resources (Company of the Party P	JavaScript execution time — 0.2 s	^
URL         Total CPU Time         Script Evaluation         Script Part           0ther         1,935 ms         21 ms         4 m           /main.js (127.0.0.1)         88 ms         58 ms         7 m		ıyloads helps
ORL         Time         Script Evaluation         Script Pair           0ther         1,935 ms         21 ms         4 m           /main.js (127.0.0.1)         88 ms         58 ms         7 m	Show 3rd-part	ty resources (0)
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	Other 1,935 ms 21 ms	4 ms
/starAnimation.js (127.0.0.1) 69 ms 68 ms 1 m	/main.js (127.0.0.1) 88 ms 58 ms	7 ms
	/starAnimation.js (127.0.0.1) 69 ms 68 ms	1 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>.



# 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** — 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.

the experience for users of assistive technology, like a screen reader. Buttons do not 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. Failing Elements button.carousel-btn.carousel-btn--right Form elements do not have associated labels Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more. Failing Elements input.form-input input.form-input textarea.form-input 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.git-footer

Best practices — These items highlight common accessibility best practices.

▲ [id] attributes on the page are not unique

a.email-footer

a.linkedin-footer

The value of an id attribute must be unique to prevent other instances from being overlooked by assistive te	chnologies
Learn more	

div#inner-top.inner-square

div#inner-bot.inner-square

div#inner-left.inner-square

div#inner-right.inner-square

div#inner-mid.inner-square

Additional items to manually check (11) — These items address areas which an automated testing tool cannot cover. Learn ^ more in our guide on conducting an accessibility review.

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</u> .	
Interactive controls are keyboard focusable	^
Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn more</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 more</u> .	
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 more</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. <u>Learn more</u> .	
Custom controls have associated labels	^
Custom controls have associated labels  Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. Learn more.	^
	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. Learn more.  Custom controls have ARIA roles	
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.	^
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	^
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.	^
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	^
Custom controls have ARIA roles  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.	^

Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology. <u>Learn more</u>.

Pas	esed audits (7)	^
	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</u> .	
	Background and foreground colors have a sufficient contrast ratio	^
	Low-contrast text is difficult or impossible for many users to read. <u>Learn more</u> .	
	Document has a <title> element&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;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. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;html&gt; element has a [lang] attribute&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;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. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;pre&gt;&lt;html&gt; element has a valid value for its [lang] attribute&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Specifying a valid &lt;u&gt;BCP 47 language&lt;/u&gt; helps screen readers announce text properly. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Image elements have [alt] attributes&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;[user-scalable="no"] is not used in the &lt;meta name="viewport"&gt; element and the [maximum-scale] attribute is not less than 5.&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the contents of web page. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;а&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Not&lt;/td&gt;&lt;td&gt;applicable (24)&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;[accesskey] values are unique&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;[aria-*] attributes match their roles&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Each ARIA `role` supports a specific subset of `aria-*` attributes. Mismatching these invalidates the `aria-*` attributes. &lt;a href="Learn.more"&gt;&lt;u&gt;Learn.more.&lt;/u&gt;&lt;/a&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;[role]s have all required [aria-*] attributes&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Some ARIA roles have required attributes that describe the state of the element to screen readers. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Elements with an ARIA [role] that require children to contain a specific [role] have all required children.&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>	

[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 accessibused Learn more.	bility functions.
[role] values are valid	^
ARIA roles must have valid values in order to perform their intended accessibility functions. <u>Learn more</u> .	
[aria-*] attributes have valid values	^
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. <u>Learn more</u> .	
[aria-*] attributes are valid and not misspelled	^
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. <u>Learn more</u> .	
<pre><audio> elements contain a <track/> element with [kind="captions"]</audio></pre>	^
Captions make audio elements usable for deaf or hearing-impaired users, providing critical information such talking, what they're saying, and other non-speech information. <u>Learn more</u> .	as who is
<pre><dl>'s contain only properly-ordered <dt> and <dd> groups, <script> or <template> elements.</pre></td><td>^</td></tr><tr><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output</td><td>ıt. <u>Learn more</u>.</td></tr><tr><td>Definition list items are wrapped in <d1> 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 reapproperly announce them. <u>Learn more</u>.</td><td>aders can</td></tr><tr><td></td><td></td></tr><tr><td><frame> or <iframe> elements have a title</td><td>^</td></tr><tr><td><pre><frame> or <iframe> elements have a title  Screen reader users rely on frame titles to describe the contents of frames. Learn more.</pre></td><td>^</td></tr><tr><td></td><td>^</td></tr><tr><td>Screen reader users rely on frame titles to describe the contents of frames. <u>Learn more</u>.</td><td>^</td></tr><tr><td>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</td><td>^</td></tr><tr><td>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 purpose of the button. Learn more.</td><td>s understand the</td></tr><tr><td>Screen reader users rely on frame titles to describe the contents of frames. 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Learn</td></tr><tr><td>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 purpose of the button. 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 summary attribute, because this can create a confusing experience for screen reader users. 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 out more.  List items (<li>) are contained within <ul> or <ol> parent elements</li> </ol> Screen readers require list items (`<li>) to be contained within a parent `<ul> or <ol> `to be announced promore.</td><td>s understand the  s or the  tput. <u>Learn</u></td></tr></tbody></table></script></dd></dt></dl></pre>	

Screen readers cannot translate non-text content. Adding alt 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**

▲ Does not use HTTP/2 for all of its resources — 37 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
/index.html (127.0.0.1)	http/1.1
/styles/desktop.css (127.0.0.1)	http/1.1
/styles/mobile.css (127.0.0.1)	http/1.1
/styles/stars.css (127.0.0.1)	http/1.1
/styles/modal.css (127.0.0.1)	http/1.1
/styles/tablet.css (127.0.0.1)	http/1.1

URL	Protocol
/icons/HTML%20Badge.png (127.0.0.1)	http/1.1
/icons/CSS%20Badge.png (127.0.0.1)	http/1.1
/icons/JS%20Badge.png (127.0.0.1)	http/1.1
/icons/PYTHON%20Badge.png (127.0.0.1)	http/1.1
/icons/side%20arrow.svg (127.0.0.1)	http/1.1
/icons/Microsoft%20logo.svg (127.0.0.1)	http/1.1
/icons/fcc%20logo.svg (127.0.0.1)	http/1.1
/icons/fcc%20text.svg (127.0.0.1)	http/1.1
/icons/CPUT%20logo.svg (127.0.0.1)	http/1.1
/icons/Unisa%20logo.svg (127.0.0.1)	http/1.1
/icons/green_gem.svg (127.0.0.1)	http/1.1
/icons/coin.svg (127.0.0.1)	http/1.1
/icons/cloud-1.svg (127.0.0.1)	http/1.1
/icons/cloud-2.svg (127.0.0.1)	http/1.1
/icons/cloud-3.svg (127.0.0.1)	http/1.1
/icons/cloud-4.svg (127.0.0.1)	http/1.1
/icons/ground.svg (127.0.0.1)	http/1.1
/icons/git%20logo%202.svg (127.0.0.1)	http/1.1
/icons/email%20icon.svg (127.0.0.1)	http/1.1
/icons/linkedin%20logo.svg (127.0.0.1)	http/1.1
/main.js (127.0.0.1)	http/1.1
/starAnimation.js (127.0.0.1)	http/1.1
/icons/Z.svg (127.0.0.1)	http/1.1
/icons/space-invaders%201.svg (127.0.0.1)	http/1.1
/icons/close_X.svg (127.0.0.1)	http/1.1
/icons/git%20logo.svg (127.0.0.1)	http/1.1
/icons/spaceShip.svg (127.0.0.1)	http/1.1
/icons/hand.svg (127.0.0.1)	http/1.1
/font-styles/ARCADECLASSIC.TTF (127.0.0.1)	http/1.1
/font-styles/ka1.ttf (127.0.0.1)	http/1.1
/font-styles/RobotoMono-Regular.ttf(127.0.0.1)	http/1.1

<sup>▲</sup> Links to cross-origin destinations are unsafe

Add `rel="noopener"` or `rel="noreferrer"` to any external links to improve performance and prevent security vulnerabilities. <u>Learn more</u>.

	Show 3rd-party resources (5)	
URL	Target	Rel
/Gweezdo/FCC_CSS_Project1 (github.com)	_blank	
/Gweezdo/FCC_CSS_Project2 (github.com)	_blank	
/Gweezdo/FCC_CSS_Project3 (github.com)	_blank	
/Gweezdo (github.com)	_blank	
/in/zjak-theron/ (www.linkedin.com)	_blank	
Passed audits (13)		^
Avoids Application Cache		^
Application Cache is deprecated. <u>Learn more</u> .		
Uses HTTPS		^
All sites should be protected with HTTPS, even ones that don't handle sensitive data. 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> .		
Uses passive listeners to improve scrolling performance		^
Consider marking your touch and wheel event listeners as `passive` to improve your p	page's scroll performance. <u>Le</u>	arn more.
Avoids document.write()		^
For users on slow connections, external scripts dynamically injected via `document.write()` can delay page load by tenseconds. <u>Learn more</u> .		tens of
Avoids requesting the geolocation permission on page load		^
Users are mistrustful of or confused by sites that request their location without context action instead. <u>Learn more</u> .	Consider tying the request t	o a user
Page has the HTML doctype		^
Specifying a doctype prevents the browser from switching to quirks-mode. Learn more	<u>2</u> .	
Avoids front-end JavaScript libraries with known security vulnerabilities		^
Some third-party scripts may contain known security vulnerabilities that are easily ider <a href="Learn more">Learn more</a> .	ntified and exploited by attack	(ers.
Detected JavaScript libraries		^
All front-end JavaScript libraries detected on the page. <u>Learn more</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. Learn more.

Avoids deprecated APIs	^
Deprecated APIs will eventually be removed from the browser. <u>Learn more</u> .	
Allows users to paste into password fields	^
Preventing password pasting undermines good security policy. <u>Learn more</u> .	
No browser errors logged to the console	^
Errors logged to the console indicate unresolved problems. They can come from network request failures a concerns. <u>Learn more</u>	and other browser
Displays images with correct aspect ratio	^
Image display dimensions should match natural aspect ratio. <u>Learn more</u> .	



#### SFO

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.

Meta descriptions may be included in search results to concisely summarize page content. Learn more.

Additional items to manually check (1) — Run these additional validators on your site to check additional SEO best practices.

Structured data is valid

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

Passed 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. 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.

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. <u>Learn more</u> .	
	Page isn't blocked from indexing	^
	Search engines are unable to include your pages in search results if they don't have permission to crawl them. Learn more.	
	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> .	
	Document has a valid hreflang	^
	hreflang links tell search engines what version of a page they should list in search results for a given language or region. <u>Learn more</u> .	
	Document avoids plugins	^
	Search engines can't index plugin content, and many devices restrict plugins or don't support them. <u>Learn more</u> .	
No	t applicable (4)	^
	robots.txt is valid	^
	If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. <u>Learn more</u> .	
	Document has a valid rel=canonical	^
	Canonical links suggest which URL to show in search results. <u>Learn more</u> .	
	Document uses legible font sizes	^
	Font sizes less than 12px are too small to be legible and require mobile visitors to "pinch to zoom" in order to read. Strive to have >60% of page text ≥12px. <u>Learn more</u> .	)
	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. <u>Learn more</u>.

#### Fast and reliable

Page load is fast enough on mobile networks

9/20	20	
	A fast page load over a cellular network ensures a good mobile user experience. <u>Learn more</u> .	
<b>A</b>	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.	
<b>A</b>	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. <u>Learn more</u> .	
	Installable	
	Uses HTTPS	\
	All sites should be protected with HTTPS, even ones that don't handle sensitive data. 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> .	
<b>A</b>	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> .	
<b>A</b>	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</u> more.	
	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. 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

Add a `<meta name="viewport">` tag to optimize your app for mobile screens. Learn more.

Contains some content when JavaScript is 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. Learn more.

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>.

**Additional items to manually check (3)** — 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.

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. <u>Learn more</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</u>.

#### **Runtime Settings**

**URL** http://127.0.0.1:5501/index.html

**Fetch time** Jul 19, 2020, 11:50 AM GMT+10

**Device** Emulated Desktop

Network throttling 150 ms TCP RTT, 1,638.4 Kbps throughput (Simulated)

**CPU throttling** 4x slowdown (Simulated)

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

Gecko) Chrome/83.0.4103.116 Safari/537.36

User agent (network) Mozilla/5.0 (Macintosh; Intel Mac OS X 10\_13\_6) AppleWebKit/537.36 (KHTML,

like Gecko) Chrome/74.0.3694.0 Safari/537.36 Chrome-Lighthouse

CPU/Memory Power 932

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