



Performance

Metrics			=
First Contentful Paint	0.5 s	Time to Interactive	0.5 s
Speed Index	0.5 s	Total Blocking Time	0 ms
Largest Contentful Paint	0.5 s	Cumulative Layout Shift	0.001

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





Show audits relevant to: All FCP LCP TBT CLS

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

Opportunity Estimated Savings

Eliminate render-blocking resources

0.28 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 (3)

URL	Transfer Size	Potential Savings
css/materialize.min.css (cdnjs.cloudflare.com)	17.8 KiB	280 ms
css/all.css (use.fontawesome.com)	12.3 KiB	360 ms
/icon?family=Material+Icons (fonts.googleapis.com)	0.5 KiB	290 ms

Transfer Potential **URL** Savings Size 5.4 KiB 70 ms ...css/style.css (game-review-ms.herokuapp.com) Diagnostics — More information about the performance of your application. These numbers don't directly affect the Performance 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. FCP (LCP) Show 3rd-party resources (2) Potential **URL** Savings ...webfonts/fa-solid-900.woff2 (use.fontawesome.com) 190 ms ...webfonts/fa-brands-400.woff2 (use.fontawesome.com) 360 ms Does not use 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. Show 3rd party resources (3) Source materialize.min.js:6 materialize.min.js:6 materialize.min.js:6 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. (FCP) (LCP) Maximum critical path latency: 620 ms Initial Navigation /signup (game-review-ms.herokuapp.com) ...css/materialize.min.css (cdnjs.cloudflare.com) - 40 ms, 17.81 KiB ...css/all.css (use.fontawesome.com) ...webfonts/fa-solid-900.woff2 (use.fontawesome.com) - 190 ms, 78.00 KiB ...webfonts/fa-brands-400.woff2 (use.fontawesome.com) - 360 ms, 72.98 KiB /icon?family=Material+Icons (fonts.googleapis.com) - 100 ms, 0.46 KiB /css2?family=Orbitron&family=Roboto&display=swap (fonts.googleapis.com) ...v17/yMJMMIlzd....woff (fonts.gstatic.com) - 50 ms, 8.48 KiB ...v27/KFOmCnqEu....woff2 (fonts.gstatic.com) - 70 ms, 10.84 KiB ...css/style.css (game-review-ms.herokuapp.com) - 30 ms, 5.38 KiB

/jquery-3.5.1.min.js (code.jquery.com) - 540 ms, 30.31 KiB

...js/materialize.min.js (cdnjs.cloudflare.com) - 90 ms, 36.33 KiB

...js/script.js (game-review-ms.herokuapp.com) - 30 ms, 2.48 KiB

Keep request counts low and transfer sizes small $\,-\,$ 14 requests $\, \cdot \,$ 369 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	14	369.0 KiB
Font	4	170.3 KiB
Image	1	86.7 KiB
Script	3	69.1 KiB
Stylesheet	5	36.6 KiB
Document	1	6.3 KiB
Media	0	0.0 KiB
Other	0	0.0 KiB
Third-party	10	268.1 KiB

Largest Contentful Paint element — 1 element found

This is the largest contentful element painted within the viewport. <u>Learn More (LCP)</u>

Element



a.left.brand-logo

Avoid large layout shifts — 3 elements found

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

Element CLS Contribution

ul.right.hide-on-med-and-down

0.001

Element	OL	S Contribution
li e		0
h3.center-align.underline		
		0
Avoid long main-thread tasks — 1 long task found		^
Lists the longest tasks on the main thread, useful for identifying worst contributors to input	t delay. <u>Learn more</u> (TB	Ī
	Show 3rd-party r	csources (0)
URL	Start Time	Duration
/signup (game-review-ms.herokuapp.com)	221 ms	72 ms
Properly size images Serve images that are appropriately-sized to save cellular data and improve load time. Le	earn more.	^
Defer offscreen images		^
Consider lazy-loading offscreen and hidden images after all critical resources have finished interactive. <u>Learn more</u> .	ed loading to lower time	to
Minify CSS		^
Minifying CSS files can reduce network payload sizes. <u>Learn more</u> . <u>FCP</u> <u>LCP</u>		
Minify JavaScript		^
Minifying JavaScript files can reduce payload sizes and script parse time. Learn more.	CP LCP	
Reduce unused CSS — Potential savings of 29 KiB		^
Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content network activity. <u>Learn more</u> . <u>FCP</u> <u>LCP</u>	t to decrease bytes con	sumed by
	Show 3rd-party r	esources (2)
URL	Transfer Size	Potential Savings
css/materialize.min.css (cdnjs.cloudflare.com)	17.8 KiB	16.6 KiB
css/all.css (use.fontawesome.com)	12.3 KiB	12.2 KiB

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. Learn more. [LCP] Show 3rd-party resources (1) Transfer Potential **URL** Size Savings ...js/materialize.min.js (cdnjs.cloudflare.com) 36.3 KiB 29.1 KiB Efficiently encode images Optimized images load faster and consume less cellular data. Learn more. Serve images in next-gen formats — Potential savings of 37 KiB Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. Learn more. Show 3rd-party resources (0) Resource Potential **URL** Size Savings 86.4 KiB 37.2 KiB ...images/bg_img.jpg (game-review-ms.herokuapp.com) Enable text compression — Potential savings of 9 KiB Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. Learn more. (FCP) (LCP) Show 3rd party resources (0) Transfer Potential **URL** Size Savings 6.1 KiB /signup (game-review-ms.herokuapp.com) 4.2 KiB ...css/style.css (game-review-ms.herokuapp.com) 5.1 KiB 3.6 KiB 2.2 KiB 1.4 KiB ...js/script.js (game-review-ms.herokuapp.com) Preconnect to required 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 50 ms Keep the server response time for the main document short because all other requests depend on it. Learn more. (FCP) (LCP) Show 3rd-party resources (0) **URL** Time Spent 50 ms /signup (game-review-ms.herokuapp.com) 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] Remove duplicate modules in JavaScript bundles Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity. (TBT) 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 More (TBT) Show 3rd-party resources (1) **URL Potential Savings** Preload Largest Contentful Paint image Preload the image used by the LCP element in order to improve your LCP time. Learn more. (LCP) Avoids enormous network payloads — Total size was 370 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn more. (LCP) Show 3rd-party resources (8) **URL** Transfer Size 86.7 KiB ...images/bg_img.jpg (game-review-ms.herokuapp.com) ...webfonts/fa-solid-900.woff2 (use.fontawesome.com) 78.0 KiB 73.0 KiB ...webfonts/fa-brands-400.woff2 (use.fontawesome.com) 36.3 KiB ...js/materialize.min.js (cdnjs.cloudflare.com) 30.3 KiB /jquery-3.5.1.min.js (code.jquery.com) 17.8 KiB ...css/materialize.min.css (cdnjs.cloudflare.com) 12.3 KiB ...css/all.css (use.fontawesome.com) ...v27/KFOmCnqEu....woff2 (fonts.gstatic.com) 10.8 KiB ...v17/yMJMMIIzd....woff (fonts.gstatic.com) 8.5 KiB 6.3 KiB /signup (game-review-ms.herokuapp.com)

Uses efficient cache policy on static asse	ets — 0 resources foun	d			^
A long cache lifetime can speed up repea	at visits to your page. <u>Le</u>	earn more.			
Avoids an excessive DOM size — 69 el	ements				^
A large DOM will increase memory usage TBT	e, cause longer <u>style ca</u>	culations, and produc	e costly <u>la</u>	<u>ayout reflows</u> . <u>Le</u>	<u>arn more</u> .
Statistic	Element				Value
Total DOM Elements					69
		i.fab.fa-face	book		
Maximum DOM Depth					9
Maximum Child Elements		body			10
User Timing marks and measures Consider instrumenting your app with the experiences. Learn more. JavaScript execution time — 0.1 s Consider reducing the time spent parsing with this. Learn more. (TBT)					^
				Show 3rd party	resources (0)
URL		Total CI Tir	PU Some	ript Evaluation	Script Parse
/signup (game-review-ms.herokuapp.com)		139 ו	ms	50 ms	17 ms
chrome-extension://fheoggkfdfchfphcee	ifdbepaooicaho/content.	js 56 ı	ms	31 ms	17 ms
Minimizes main-thread work — 0.3 s					^
Consider reducing the time spent parsing with this. <u>Learn more</u> (TBT)	g, compiling and executi	ng JS. You may find d	lelivering	smaller JS paylo	ads helps
Category					Time Spent
Script Evaluation					112 ms
Other					90 ms
Script Parsing & Compilation					37 ms
Parse HTML & CSS					19 ms

Category		Time Spe
Rendering		17 m
Style & Layout		16 m
Garbage Collection		6 m
Minimize third-party usage — Third-party code blocked the main th	read for 0 ms	
Third-party code can significantly impact load performance. Limit the oad third-party code after your page has primarily finished loading.		d-party providers and try to
		Show 3rd-party resources (0
Third-Party	Transfer Size	Main-Thread Blocking Tir
FontAwesome CDN	163 KiB	0 m
webfonts/fa-solid-900.woff2 (use.fontawesome.com)	78 KiB	0 m
webfonts/fa-brands-400.woff2 (use.fontawesome.com)	73 KiB	0 m
css/all.css (use.fontawesome.com)	12 KiB	0 m
Cloudflare CDN	54 KiB	0 m
js/materialize.min.js (cdnjs.cloudflare.com)	36 KiB	0 m
css/materialize.min.css (cdnjs.cloudflare.com)	18 KiB	0 m
jQuery CDN	30 KiB	0 m
/jquery-3.5.1.min.js (code.jquery.com)	30 KiB	0 m
Google Fonts	20 KiB	0 m
v27/KFOmCnqEuwoff2 (fonts.gstatic.com)	11 KiB	0 m
v17/yMJMMIlzdwoff (fonts.gstatic.com)	8 KiB	0 m
azy load third-party resources with facades		
Some third-party embeds can be lazy loaded. Consider replacing the $\overline{\text{TBT}}$	em with a facade until they	are required. <u>Learn more</u> .
Avoids document.write()		
For users on slow connections, external scripts dynamically injected seconds. <u>Learn more</u> .	via `document.write()` car	n delay page load by tens of
Avoid non-composited animations		



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

Image elements have explicit width and height

Failing Elements

These checks highlight opportunities to improve the accessibility of your web app. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

Contrast — These are opportunities to improve the legibility of your content.

A	Background and foreground colors do not have a sufficient contrast ratio.	^
	Low-contrast text is difficult or impossible for many users to read. <u>Learn more</u> .	
	Failing Elements	
	button.col.s8.m8.offset-s2.offset-m2.btn.text-shadow	
Na	vigation — These are opportunities to improve keyboard navigation in your application.	
A	[id] attributes on active, focusable elements are not unique	^
	All focusable elements must have a unique 'id' to ensure that they're visible to assistive technologies. <u>Learn more</u> .	
	Failing Elements	
	a#index	
	a#login	
	mes and labels — These are opportunities to improve the semantics of the controls in your application. This may enhance experience for users of assistive technology, like a screen reader.	
A	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. <u>Learn more</u> .	

	а	
	а	
	a	
	a	
dditional items to manually conce in our guide on conducting	check (10) — These items address areas which an automated testing tool cannot cover. Le	arn ^
The page has a logical tab o	order	^
Tabbing through the page for	allows the viewel levent. Hears connect feens elements that are effection. Learn more	
rapping unough the page ic	ollows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more</u> .	
Interactive controls are keyb		^
Interactive controls are keyb		^
Interactive controls are keyb	ooard focusable are keyboard focusable and display a focus indicator. <u>Learn more</u> .	^
Interactive controls are keyb Custom interactive controls Interactive elements indicate	ooard focusable are keyboard focusable and display a focus indicator. <u>Learn more</u> .	
Interactive controls are keyb Custom interactive controls Interactive elements indicate Interactive elements, such a elements. Learn more.	ooard focusable are keyboard focusable and display a focus indicator. Learn more. e their purpose and state	
Interactive controls are keyb Custom interactive controls Interactive elements indicate Interactive elements, such a elements. Learn more. The user's focus is directed	poard focusable are keyboard focusable and display a focus indicator. Learn more. e their purpose and state as links and buttons, should indicate their state and be distinguishable from non-interactive	^
Interactive controls are keyb Custom interactive controls Interactive elements indicate Interactive elements, such a elements. Learn more. The user's focus is directed	are keyboard focusable and display a focus indicator. Learn more. e their purpose and state as links and buttons, should indicate their state and be distinguishable from non-interactive to new content added to the page alog, is added to the page, the user's focus is directed to it. Learn more.	^
Interactive controls are keyb Custom interactive controls Interactive elements indicate Interactive elements, such a elements. Learn more. The user's focus is directed If new content, such as a dia User focus is not accidental	are keyboard focusable and display a focus indicator. Learn more. e their purpose and state as links and buttons, should indicate their state and be distinguishable from non-interactive to new content added to the page alog, is added to the page, the user's focus is directed to it. Learn more.	^
Interactive controls are keyb Custom interactive controls Interactive elements indicate Interactive elements, such a elements. Learn more. The user's focus is directed If new content, such as a dia User focus is not accidental	coard focusable are keyboard focusable and display a focus indicator. Learn more. e their purpose and state as links and buttons, should indicate their state and be distinguishable from non-interactive to new content added to the page alog, is added to the page, the user's focus is directed to it. Learn more. ly trapped in a region of any control or region without accidentally trapping their focus. Learn more.	^
Interactive controls are keybour Custom interactive controls Interactive elements indicate Interactive elements, such a elements. Learn more. The user's focus is directed If new content, such as a dia User focus is not accidentally A user can tab into and out of Custom controls have associated.	coard focusable are keyboard focusable and display a focus indicator. Learn more. e their purpose and state as links and buttons, should indicate their state and be distinguishable from non-interactive to new content added to the page alog, is added to the page, the user's focus is directed to it. Learn more. ly trapped in a region of any control or region without accidentally trapping their focus. Learn more.	^

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. Passed audits (12) [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. 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. The page contains a heading, skip link, or landmark region Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. Learn more. Document has a <title> element The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. Learn more. 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. 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. <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. Form elements have associated labels Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more.

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

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

List items (<1i>) are contained within or parent elements

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

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

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

Not applicable (29)

[accesskey] values are unique

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

[aria-*] attributes match their roles

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

button, link, and menuitem elements have accessible names

When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u>.

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

Focusable descendents within an `[aria-hidden="true"]` element prevent those interactive elements from being available to users of assistive technologies like screen readers. <u>Learn more</u>.

ARIA input fields have accessible names

When an input field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u>.

ARIA meter elements have accessible names

When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u>.

ARIA progressbar elements have accessible names

When a 'progressbar' element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u>.

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

Some ARIA roles have required attributes that describe the state of the element to screen readers. Learn more.

Elements with an ARIA [role] that require children to contain a specific [role] have all required children.

Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. Learn more.

[role]s are contained by their required parent element

Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions. <u>Learn more</u>.

[role] values are valid

ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more.

ARIA tooltip elements have accessible names

Definition list items are wrapped in <dl> elements

No form fields have multiple labels

<frame> or <iframe> elements have a title

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. <u>Learn more</u>.

Tot users who rely on screen readers. <u>Lean more</u>.

When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u>.

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

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

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

Definition list items (`<dt>` and `<dd>`) must be wrapped in a parent `<dl>` element to ensure that screen readers can

properly announce them. <u>Learn more</u>.

Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use

either the first, the last, or all of the labels. <u>Learn more</u>.

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

Image elements have [alt] attributes

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

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

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

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 [alt] text Screen readers cannot translate non-text content. Adding all 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 element that use the [headers] attribute refer to table cells within the same table. Screen readers have features to make navigating tables easier. Ensuring `` cells using the `[headers]` attribute only refer to other cells in the same table may improve the experience for screen reader users. Learn more. elements and elements with [role="columnheader"/"rowheader"] have data cells they describe. Screen readers have features to make navigating tables easier. Ensuring table headers always refer to some set of cells may improve the experience for screen reader users. 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

▲ Does not use HTTPS — 5 insecure requests found

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.

Show 3rd-party resources (0)

Insecure URL

/signup (game-review-ms.herokuapp.com)

Request Resolution

Allowed

	Insecure URL			Request Resolution	
	css/style.css (game-revie	w-ms.herokuapp.com)		Allowed	
	js/script.js (game-review-r	ns.herokuapp.com)		Allowed	
	images/bg_img.jpg (gam	e-review-ms.herokuapp.com)		Allowed	
	images/favicon.ico (game	e-review-ms.herokuapp.com)		Allowed	
<u> </u>	Links to cross-origin destina	tions are unsafe			^
	Add `rel="noopener"` or `rel= Learn more.	="noreferrer"` to any external	links to improve performance and	prevent security vulnerabilities	S.
	Failing Anchors				
		а			
		a			
	Ш				
		а			
	_				
		а			
	Ensure CSP is effective aga	inst XSS attacks			^
	A strong Content Security Po	olicy (CSP) significantly reduc	ces the risk of cross-site scripting (XSS) attacks. <u>Learn more</u>	
	Description		Directive	Severity	
	No CSP found in enforcem	ent mode		High	
Pas	ssed audits (15)				^
	Avoids requesting the geological	cation permission on page loa	ad		^

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 unload event listeners The 'unload' event does not fire reliably and listening for it can prevent browser optimizations like the Back-Forward Cache. Consider using the 'pagehide' or 'visibilitychange' events instead. Learn more **Avoids Application Cache** Application Cache is deprecated. Learn more. **Detected JavaScript libraries** All front-end JavaScript libraries detected on the page. Learn more. Name Version 3.5.1 jQuery 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

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</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.

Not applicable (1)

Fonts with font-display: optional are preloaded

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



SFO

These checks ensure that your page is 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.

▲ Document does not have a meta description

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. <u>Learn more</u>.

	Page has successful HTTP status code	^
	Pages with unsuccessful HTTP status codes may not be indexed properly. <u>Learn more</u> .	
	Links have descriptive text	^
	Descriptive link text helps search engines understand your content. <u>Learn more</u> .	
	Links are 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	3
	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. <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 (5)	^
	robots.txt is valid	^
	If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. <u>Learn more</u> .	
	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 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	



Progressive Web App

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

Installable

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

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

Failure reason

No manifest was fetched

PWA Optimized

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

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

▲ Does not redirect HTTP traffic to HTTPS

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

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

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

Does not set a theme color for the address bar.

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

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

Content is sized correctly for the viewport

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

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.

▲ Does not provide a valid apple-touch-icon

For ideal appearance on iOS when users add a progressive web app to the home screen, define an `apple-touch-icon`. It must point to a non-transparent 192px (or 180px) square PNG. <u>Learn More</u>.

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

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

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. 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.

Runtime Settings

URL http://game-review-ms.herokuapp.com/signup

Fetch Time Sep 16, 2021, 3:38 PM GMT+1

Device Emulated Desktop

Network throttling 40 ms TCP RTT, 10,240 Kbps throughput (Simulated)

CPU throttling 1x slowdown (Simulated)

Channel devtools

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

Gecko) Chrome/93.0.4577.82 Safari/537.36

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

like Gecko) Chrome/90.0.4420.0 Safari/537.36 Chrome-Lighthouse

CPU/Memory Power 2248

Axe version 4.2.3

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