





Performance

Metrics			=
First Contentful Paint	1.4 s	Time to Interactive	1.4 s
Speed Index	1.4 s	Total Blocking Time	0 ms
Largest Contentful Paint	1.8 s	Cumulative Layout Shift	0.002

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

0.25 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)	17.4 KiB	280 ms
css/all.css (use.fontawesome.com)	11.8 KiB	320 ms
/icon?family=Material+Icons (fonts.googleapis.com)	0.5 KiB	280 ms

	URL	Transfer Size	Potential Savings
	css/style.css (game-review-ms.herokuapp.com)	5.4 KiB	80 ms
	Enable text compression		0.24 s ^
	Text-based resources should be served with compression (gzip, deflate or brotli) to minimi $\underline{\text{more}}$. FCP $\underline{\text{LCP}}$	ze total network bytes.	<u>Learn</u>
		Show 3rd-party re	esources (0)
	URL	Transfer Size	Potential Savings
	http://game-review-ms.herokuapp.com	1,073.5 KiB	264.0 KiB
	css/style.css (game-review-ms.herokuapp.com)	5.1 KiB	3.6 KiB
	js/script.js (game-review-ms.herokuapp.com)	2.2 KiB	1.4 KiB
	gnostics — More information about the performance of your application. These numbers of formance score.	don't <u>directly affect</u> the	
	Ensure text remains visible during webfont load		^
	Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loa	ding. <u>Learn more</u> . <u>FCP</u>	LCP
		Show 3rd party re	esources (2)
	URL		Potential Savings
	v103/flUhRq6tzwoff2 (fonts.gstatic.com)		110 ms
	webfonts/fa-brands-400.woff2 (use.fontawesome.com)		100 ms
A	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. <u>L</u>	<u>.earn more</u> .
		Show 3rd-party re	esources (3)
	Source		
	materialize.min.js:6		
	materialize.min.js:6		
	materialize.min.js:6		
A	Image elements do not have explicit width and height		^
	Set an explicit width and height on image elements to reduce layout shifts and improve CL	S. <u>Learn more</u> CLS	
		Show 3rd-party re	esources (3)
	URL Fai	ling Elements	

Resource Type

URL Failing Elements img.a ctivato r .../vyn+bbmc7 img.a ctivato ... img.a ctivato .../2wBDAAQDAwMDAwQDAw QGBAMEB... Avoid chaining critical requests - 9 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: 720 ms Initial Navigation http://game-review-ms.herokuapp.com ...css/materialize.min.css (cdnjs.cloudflare.com) - 70 ms, 17.41 KiB ...css/all.css (use.fontawesome.com) ...webfonts/fa-brands-400.woff2 (use.fontawesome.com) - 100 ms, 72.98 KiB /icon?family=Material+Icons (fonts.googleapis.com) ...v103/flUhRq6tz....woff2 (fonts.gstatic.com) - 110 ms, 108.06 KiB /css2?family=Orbitron&family=Roboto&display=swap (fonts.googleapis.com) ...v17/yMJMMIlzd....woff (fonts.gstatic.com) - 40 ms, 8.48 KiB ...v27/KFOmCnqEu....woff2 (fonts.gstatic.com) - 60 ms, 10.84 KiB ...css/style.css (game-review-ms.herokuapp.com) - 40 ms, 5.38 KiB /jquery-3.5.1.min.js (code.jquery.com) - 40 ms, 30.31 KiB ...js/materialize.min.js (cdnjs.cloudflare.com) - 90 ms, 36.77 KiB ...js/script.js (game-review-ms.herokuapp.com) - 30 ms, 2.48 KiB Keep request counts low and transfer sizes small — 14 requests • 1,466 KiB To set budgets for the quantity and size of page resources, add a budget.json file. Learn more.

Total

14 1,466.1 KiB

Requests

Transfer Size

Resource Type	Requests	Transfer Size
Document	1	1,073.7 KiB
Font	4	200.4 KiB
Image	1	86.7 KiB
Script	3	69.6 KiB
Stylesheet	5	35.7 KiB
Media	0	0.0 KiB
Other	0	0.0 KiB
Third-party	10	297.8 KiB
Largest Contentful Paint elem This is the largest contentful e	ent — 1 element found lement painted within the viewport. Learn More LCP	^
	img.activator	
Avoid large layout shifts — 5 These DOM elements contrib	elements found ute most to the CLS of the page. CLS	^
Element		CLS Contribution
	ul.right.hide-on-med-and-down	
		0.001
	p.white-text	
		0
	li	0

Element	CLS	S Contribution
i.activator.material-icons.right		
		0
i.activator.material-icons.right		
		0
Avoid long main-thread tasks — 2 long tasks found		^
Lists the longest tasks on the main thread, useful for identifying worst co	ntributors to input delay. <u>Learn more</u> TB	Ī
	Show 3rd-party r	resources (0)
URL	Start Time	Duration
http://game-review-ms.herokuapp.com	1,118 ms	65 ms
http://game-review-ms.herokuapp.com	1,201 ms	51 ms
Animations which are not composited can be janky and increase CLS. LEIEment	earn more CLS Name	
li.active-link		
Unsupported CSS Property: background-color	background-color	
ssed audits (26)		^
Properly size images		^
Serve images that are appropriately-sized to save cellular data and impr	ove load time. <u>Learn more</u> .	
Defer offscreen images		^
Consider lazy-loading offscreen and hidden images after all critical resonant interactive. <u>Learn more</u> .	urces have finished loading to lower time	to
Minify CSS		^
Minifying CSS files can reduce network payload sizes. <u>Learn more</u> . <u>FCF</u>	(LCP)	
Minify JavaScript		^

Minifying JavaScript files can reduce payload sizes and script parse time. Learn more. FCP [LCP] Reduce unused CSS — Potential savings of 28 KiB Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. Learn more. FCP (LCP) Show 3rd-party resources (2) Transfer Potential **URL** Size Savings 17.4 KiB 16.8 KiB ...css/materialize.min.css (cdnjs.cloudflare.com) 11.8 KiB 11.7 KiB ...css/all.css (use.fontawesome.com) Reduce unused JavaScript — Potential savings of 30 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 36.8 KiB 29.7 KiB ...js/materialize.min.js (cdnjs.cloudflare.com) 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 ...images/bg_img.jpg (game-review-ms.herokuapp.com) 86.4 KiB 37.2 KiB 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 130 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 130 ms http://game-review-ms.herokuapp.com

Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. <u>Learn more</u> . <u>FC</u>	PICP
Preload key requests	^
Consider using ` k rel=preload>` to prioritize fetching resources that are currently remore. FCP LCP	equested later in page load. <u>Learn</u>
Use HTTP/2	^
HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing	g. <u>Learn more</u> .
Use video formats for animated content	^
Large GIFs are inefficient for delivering animated content. Consider using MPEG4/We PNG/WebP for static images instead of GIF to save network bytes. <u>Learn more</u> <u>LCP</u>	bM videos for animations and
Remove duplicate modules in JavaScript bundles	^
Remove large, duplicate JavaScript modules from bundles to reduce unnecessary byte TBT	es consumed by network activity.
Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 KiB	^
Polyfills and transforms enable legacy browsers to use new JavaScript features. Howe modern browsers. For your bundled JavaScript, adopt a modern script deployment stradetection to reduce the amount of code shipped to modern browsers, while retaining s More TBT	ategy using module/nomodule feature
	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 1,468 KiB	^
Large network payloads cost users real money and are highly correlated with long load	d times. <u>Learn more</u> . <u>LCP</u>
	Show 3rd-party resources (8)
URL	Transfer Size
http://game-review-ms.herokuapp.com	1,073.7 KiB
v103/flUhRq6tzwoff2 (fonts.gstatic.com)	108.1 KiB
images/bg_img.jpg (game-review-ms.herokuapp.com)	86.7 KiB
webfonts/fa-brands-400.woff2 (use.fontawesome.com)	73.0 KiB
js/materialize.min.js (cdnjs.cloudflare.com)	36.8 KiB
/jquery-3.5.1.min.js (code.jquery.com)	30.3 KiB
css/materialize.min.css (cdnjs.cloudflare.com)	17.4 KiB
css/all.css (use.fontawesome.com)	11.8 KiB
v27/KFOmCnqEuwoff2 (fonts.gstatic.com)	10.8 KiB

URL Transfer Size 8.5 KiB ...v17/yMJMMIIzd....woff (fonts.gstatic.com) 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 - 91 elements A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn more. (TBT) Statistic Element Value **Total DOM Elements** 91 а Maximum DOM Depth 9 body Maximum Child Elements 10 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 - 0.1 s Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn more. (TBT) Show 3rd-party resources (0) Total CPU URL Script Evaluation Script Parse Time http://game-review-ms.herokuapp.com 269 ms 82 ms 16 ms Unattributable 1 ms 85 ms 0 ms chrome-extension://fheoggkfdfchfphceeifdbepaooicaho/content.js 57 ms 32 ms 17 ms Minimizes main-thread work — 0.5 s Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. Learn more (TBT) Category Time Spent Other 186 ms

Category	Time Spent
Script Evaluation	144 ms
Rendering	61 ms
Script Parsing & Compilation	36 ms
Style & Layout	22 ms
Parse HTML & CSS	20 ms
Garbage Collection	1 ms

Minimize third-party usage — Third-party code blocked the main thread for 0 ms

Third-Party

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>. <u>TBT</u>

Transfer Size

Chay 2rd party	rocouroca	(0)	١
Show 3rd-party	resources (U)

Main-Thread Blocking Time

Tilliu-i dity	Transier Gize	Main-Thicad Blocking Time
Google Fonts	128 KiB	0 ms
v103/flUhRq6tzwoff2 (fonts.gstatic.com)	108 KiB	0 ms
v27/KFOmCnqEuwoff2 (fonts.gstatic.com)	11 KiB	0 ms
v17/yMJMMIIzdwoff (fonts.gstatic.com)	8 KiB	0 ms
FontAwesome CDN	85 KiB	0 ms
webfonts/fa-brands-400.woff2 (use.fontawesome.com)	73 KiB	0 ms
css/all.css (use.fontawesome.com)	12 KiB	0 ms
Cloudflare CDN	54 KiB	0 ms
js/materialize.min.js (cdnjs.cloudflare.com)	37 KiB	0 ms
css/materialize.min.css (cdnjs.cloudflare.com)	17 KiB	0 ms
j <u>Query CDN</u>	30 KiB	0 ms
/jquery-3.5.1.min.js (code.jquery.com)	30 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 more.</u> <u>TBT</u>

Avoids document.write()

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

	·		
A	Links do not have a discerni	ble name	^
		for images, when used as links) that is discernible, unique, and focusable improves the reen reader users. <u>Learn more</u> .	
	Failing Elements		
		а	
		а	
		a	
		а	
	litional items to manually c e in our guide on <u>conducting</u>	heck (10) — These items address areas which an automated testing tool cannot cover. Le an accessibility review.	arn ^
	The page has a logical tab of	order	^
	Tabbing through the page fo	llows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more</u> .	
	Interactive controls are keyb	oard focusable	^
	Custom interactive controls	are keyboard focusable and display a focus indicator. <u>Learn more</u> .	
	Interactive elements indicate	e their purpose and state	^
	Interactive elements, such a elements. <u>Learn more</u> .	s links and buttons, should indicate their state and be distinguishable from non-interactive	

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 interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
	Custom controls have ARIA roles	^
	Custom interactive controls have appropriate ARIA roles. <u>Learn more</u> .	
	Visual order on the page follows DOM order	^
	DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more</u> .	
	Offscreen content is hidden from assistive technology	^
	Offscreen content is hidden with display: none or aria-hidden=true. <u>Learn more</u> .	
	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.</nav></main>	
Ра	ssed audits (11)	^
	[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 ` <body>`. <u>Learn more</u>.</body>	
	The page contains a heading, skip link, or landmark region	^
	Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. Learn more.	
	Background and foreground colors have a sufficient contrast ratio	^
	Low-contrast text is difficult or impossible for many users to read. Learn more.	
	Document has a <title> element</td><td>^</td></tr><tr><td></td><td>The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. <u>Learn more</u>.</td><td></td></tr><tr><td></td><td>[id] attributes on active, focusable elements are unique</td><td>^</td></tr><tr><td></td><td>All focusable elements must have a unique 'id' to ensure that they're visible to assistive technologies. Learn more.</td><td></td></tr><tr><td></td><td><html> element has a [lang] attribute</td><td>^</td></tr><tr><td></td><td>If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might not announce the page's text correctly. <u>Learn more</u>.</td><td></td></tr><tr><td></td><td>html element has a valid value for its [lang] attribute</td><td>^</td></tr></tbody></table></title>	

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

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

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

List items () are contained within or parent elements

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

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

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

Not applicable (32)

[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. Learn more. [role] values are valid ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more. ARIA toggle fields have accessible names When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn more. ARIA tooltip elements have accessible names When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn more. ARIA treeitem elements have accessible names When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn more. [aria-*] attributes have valid values Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn more. [aria-*] attributes are valid and not misspelled Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more. Buttons have an accessible name When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for users who rely on screen readers. Learn more. <dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements. When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. Learn more. Definition list items are wrapped in <dl> elements Definition list items (`<dt>` and `<dd>`) must be wrapped in a parent `<dl>` element to ensure that screen readers can properly announce them. Learn more. ARIA IDs are unique The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. Learn more. No form fields have multiple labels

Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either the first, the last, or all of the labels. <u>Learn more</u>.

<frame> or <iframe> elements have a title

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

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

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

Form elements have associated labels

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

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

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

<object> elements have [alt] text

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

No element has a [tabindex] value greater than 0

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

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

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

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

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

[lang] attributes have a valid value

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

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

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



Trust and Safety

A	Does not use HTTPS — 5 insecure requests found		^
	All sites should be protected with HTTPS, even ones that don't handle sensitive data. This where some resources are loaded over HTTP despite the initial request being served over intruders from tampering with or passively listening in on the communications between your prerequisite for HTTP/2 and many new web platform APIs. <u>Learn more</u> .	HTTPS. HTTPS prevents	,
		Show 3rd-party resources ((0)
	Insecure URL	Request Resolution	
	http://game-review-ms.herokuapp.com	Allowed	
	css/style.css (game-review-ms.herokuapp.com)	Allowed	
	images/bg_img.jpg (game-review-ms.herokuapp.com)	Allowed	
	js/script.js (game-review-ms.herokuapp.com)	Allowed	
	images/favicon.ico (game-review-ms.herokuapp.com)	Allowed	
	Add `rel="noopener"` or `rel="noreferrer"` to any external links to improve performance and Learn more. Failing Anchors	d prevent security vulnerabilities.	
	а		
	а		

Failing Anchors				
а				
Ensure CSP is effective against XSS attacks				
A strong Content Security Policy (CSP) significantly redu	uces the risk of cross-site scrip	ting (XSS) attacks. <u>Learn more</u>		
Description	Directive	Severity		
No CSP found in enforcement mode		High		
assed audits (15)				
Avoids requesting the geolocation permission on page lo	oad	,		
Users are mistrustful of or confused by sites that reques action instead. <u>Learn more</u> .	st their location without context.	Consider tying the request to a user		
Avoids requesting the notification permission on page lo	pad	,		
Users are mistrustful of or confused by sites that reques user gestures instead. <u>Learn more</u> .	st to send notifications without c	context. Consider tying the request to		
Avoids front-end JavaScript libraries with known security	y vulnerabilities	,		
Some third-party scripts may contain known security vul <u>Learn more</u> .	Inerabilities that are easily ident	tified and exploited by attackers.		
Allows users to paste into password fields		/		
Preventing password pasting undermines good security	policy. <u>Learn more</u> .			
Displays images with correct aspect ratio		/		
Image display dimensions should match natural aspect	ratio. <u>Learn more</u> .			
Serves images with appropriate resolution				
Image natural dimensions should be proportional to the more.	display size and the pixel ratio	to maximize image clarity. <u>Learn</u>		
Page has the HTML doctype		/		
Specifying a doctype prevents the browser from switchir	ng to quirks-mode. <u>Learn more</u> .			
Properly defines charset				
A character encoding declaration is required. It can be decontent-Type HTTP response header. <u>Learn more</u> .	done with a ` <meta/> ` tag in the	first 1024 bytes of the HTML or in the		
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. Learn more. No issues in the Issues panel in Chrome Devtools Issues logged to the 'Issues' panel in Chrome Devtools indicate unresolved problems. They can come from network request failures, insufficient security controls, and other browser concerns. Open up the Issues panel in Chrome DevTools for more details on each issue. 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 (9) 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. Page has successful HTTP status code Pages with unsuccessful HTTP status codes may not be indexed properly. Learn more. Links have descriptive text Descriptive link text helps search engines understand your content. Learn more. 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 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. Learn more. Document has a valid hreflang hreflang links tell search engines what version of a page they should list in search results for a given language or region. Learn more. Document avoids plugins Search engines can't index plugin content, and many devices restrict plugins or don't support them. Learn more. Not applicable (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. Learn more.

Document uses legible font sizes

Font sizes less than 12px are too small to be legible and require mobile visitors to "pinch to zoom" in order to read. Strive to have >60% of page text ≥12px. <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. 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</u> more.

media. Learn more.

Channel

	December act a thoma color for the address har	
	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. <u>Learn more</u> .	
	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. <u>Learn more</u> .	
A	Does not provide a valid apple-touch-icon	^
	For ideal appearance on iOS when users add a progressive web app to the home screen, define an 'apple-touch-icon'. It must point to a non-transparent 192px (or 180px) square PNG. <u>Learn More</u> .	
A	Manifest doesn't have a maskable icon No manifest was fetched	^
	A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a device Learn more.	٠.
	ditional items to manually check (3) — These checks are required by the baseline PWA Checklist but are not omatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.	^
	Site works cross-browser	^
	To reach the most number of users, sites should work across every major browser. <u>Learn more</u> .	
	Page transitions don't feel like they block on the network	^
	Transitions should feel snappy as you tap around, even on a slow network. This experience is key to a user's perception of performance. <u>Learn more</u> .	
	Each page has a URL	^

Runtime Settings

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

URL	http://game-review-ms.herokuapp.com/
Fetch Time	Sep 16, 2021, 3:36 PM GMT+1
Device	Emulated Desktop
Network throttling	40 ms TCP RTT, 10,240 Kbps throughput (Simulated)
CPU throttling	1x slowdown (Simulated)

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 2122

Axe version 4.2.3

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