





















Performance

Accessibility

Best Practices

SEO

Progressive Web App





Performance

Metrics			=
First Contentful Paint	1.4 s	Time to Interactive	1.5 s
Speed Index	1.4 s	Total Blocking Time	90 ms
Largest Contentful Paint	2.1 s	Cumulative Layout Shift	0.017

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

View Original Trace



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

Opportunity Estimated Savings

Remove unused JavaScript

0.28 s ^

Remove unused JavaScript to reduce bytes consumed by network activity. Learn more.



If you are not server-side rendering, <u>split your JavaScript bundles</u> with `React.lazy()`. Otherwise, code-split using a third-party library such as <u>loadable-components</u>.

Show 3rd-party resources (0)

URL Transfer Size Potential Size Savings

...js/vendors~main.chunk.js (localhost) 869.5 KiB 357.0 KiB

Diagnostics — More information about the performance of your application. These numbers don't <u>directly affect</u> the Performance score.

▲ Serve static assets with an efficient cache policy — 4 resources found

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

✓ Show 3rd-party resources (1)

URL	Cache TTL	Transfer Size
js/vendors~main.chunk.js (localhost)	None	870 KiB
/public/beach1-small.jpg (127.0.0.1)	None	98 KiB
js/main.chunk.js (localhost)	None	11 KiB
js/bundle.js (localhost)	None	7 KiB

Avoid chaining critical requests — 3 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: 410 ms

Initial Navigation

/stocknews (localhost)

- ...js/bundle.js (localhost) 40 ms, 7.23 KiB
- ...js/vendors~main.chunk.js (localhost) 320 ms, 869.54 KiB
- ...js/main.chunk.js (localhost) 40 ms, 10.85 KiB

Keep request counts low and transfer sizes small — 9 requests • 991 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	9	991.3 KiB
Script	4	888.8 KiB
Image	1	98.2 KiB
Other	3	3.1 KiB
Document	1	1.2 KiB

Properly size images		^
Serve images that are appropriately-sized to save cellular data and improve load time. Learn mo	ore.	
Defer offscreen images		^
Consider lazy-loading offscreen and hidden images after all critical resources have finished load interactive. <u>Learn more</u> .	ling to lower time t	0
Minify CSS — Potential savings of 138 KiB		^
Minifying CSS files can reduce network payload sizes. Learn more.		
If your build system minifies CSS files automatically, ensure that you are deploying t application. You can check this with the React Developer Tools extension. Learn mo	-	d of your
	Show 3rd-party re	esources (0)
URL	Transfer Size	Potential Savings
/*! * Bootstrap v4.6.0 (https://getbootstrap.com/) * Copyright 2011-2021 The Bootstrap Authors *	167.2 KiB	138.4 KiB
Minify JavaScript		^
Minifying JavaScript files can reduce payload sizes and script parse time. <u>Learn more</u> .		
If your build system minifies JS files automatically, ensure that you are deploying the application. You can check this with the React Developer Tools extension. <u>Learn mo</u>	-	of your
Remove unused CSS — Potential savings of 167 KiB		^
Remove dead rules from stylesheets and defer the loading of CSS not used for above-the-fold cunnecessary bytes consumed by network activity. <u>Learn more</u> .	ontent to reduce	
	Show 3rd-party re	esources (0)
URL	Transfer Size	Potential Savings
/*! * Bootstrap v4.6.0 (https://getbootstrap.com/) * Copyright 2011-2021 The Bootstrap Authors *	167.2 KiB	166.6 KiB
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 PN faster downloads and less data consumption. <u>Learn more</u> .	G or JPEG, which	means
Enable text compression		^
Text-based resources should be served with compression (gzip, deflate or brotli) to minimize totamore.	al network bytes. <u>l</u>	<u>-earn</u>

Preconnect to required origins	^
Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connections to <u>Learn more</u> .	o important third-party origins.
Initial server response time was short — Root document took 10 ms	^
Keep the server response time for the main document short because all other requests depend	d on it. <u>Learn more</u> .
	Show 3rd-party resources (0)
URL	Time Spent
/stocknews (localhost)	10 ms
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. Learn more.	
If you are using React Router, minimize usage of the ` <redirect>` component for r</redirect>	oute navigations.
Preload key requests	^
Consider using ` k rel=preload>` to prioritize fetching resources that are currently requested more.	later in page load. <u>Learn</u>
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 video PNG/WebP for static images instead of GIF to save network bytes. <u>Learn more</u>	os for animations and
Remove duplicate modules in JavaScript bundles	^
Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consu	umed by network activity.
Avoid serving legacy JavaScript to modern browsers	^
Polyfills and transforms enable legacy browsers to use new JavaScript features. However, ma modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy us detection to reduce the amount of code shipped to modern browsers, while retaining support for More	ing module/nomodule feature
Preload Largest Contentful Paint image	^
Preload the image used by the LCP element in order to improve your LCP time. <u>Learn more</u> .	
Avoids enormous network payloads — Total size was 991 KiB	^
Large network payloads cost users real money and are highly correlated with long load times.	<u>Learn more</u> .
	Show 3rd-party resources (2)

URL	Transfer Size
js/vendors~main.chunk.js (localhost)	869.5 KiB
/public/beach1-small.jpg (127.0.0.1)	98.2 KiB
js/main.chunk.js (localhost)	10.8 KiB
js/bundle.js (localhost)	7.2 KiB
/query?function=OVERVIEW&symbol=IBM&apikey=SRQNFPIMBAA33FHE (www.alphavantage.co)	1.9 KiB
/script.js (localhost)	1.2 KiB
http://localhost:3000	1.2 KiB
/stocknews (localhost)	1.2 KiB
/sw_stale_while_revalidate.js (localhost)	0.0 KiB

Avoids an excessive DOM size — 36 elements

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



Consider using a "windowing" library like `react-window` to minimize the number of DOM nodes created if you are rendering many repeated elements on the page. <u>Learn more</u>. Also, minimize unnecessary re-renders using <u>`shouldComponentUpdate`</u>, <u>`PureComponent`</u>, or <u>`React.memo`</u> and <u>skip effects</u> only until certain dependencies have changed if you are using the `Effect` hook to improve runtime performance.

Statistic	Element	Value
Total DOM Elements		36
Maximum DOM Depth	th	7
Maximum Child Elements	nav.navbar.bg-dark.container	7

User Timing marks and measures

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



Use the React DevTools Profiler, which makes use of the Profiler API, to measure the rendering performance of your components. <u>Learn more.</u>

JavaScript execution time - 0.3 s

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

Show	3rd-party rese	urces (0)
CITOW	ord-party reso	uioco (o)

URL	Total CPU Time	Script Evaluation	Script Parse
js/main.chunk.js (localhost)	173 ms	171 ms	2 ms
js/vendors~main.chunk.js (localhost)	165 ms	20 ms	71 ms
Unattributable	90 ms	3 ms	0 ms
/stocknews (localhost)	81 ms	2 ms	1 ms

Minimizes main-thread work — 0.5 s

seconds. Learn more.

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

Category	Time Spent
Other	210 ms
Script Evaluation	197 ms
Script Parsing & Compilation	76 ms
Parse HTML & CSS	10 ms
Garbage Collection	9 ms
Style & Layout	5 ms
Rendering	5 ms
All text remains visible during webfont loads	^
Leverage the font-display CSS feature to ensure text is user-visible while webfonts are load	ding. <u>Learn more</u> .
Minimize third-party usage	^
Third-party code can significantly impact load performance. Limit the number of redundant load third-party code after your page has primarily finished loading. <u>Learn more</u> .	third-party providers and try to
Lazy load third-party resources with facades	^
Some third-party embeds can be lazy loaded. Consider replacing them with a facade until t	hey are required. <u>Learn more</u> .
Uses passive listeners to improve scrolling performance	^
Consider marking your touch and wheel event listeners as `passive` to improve your page's	s scroll performance. <u>Learn more</u> .
Avoids document.write()	^

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

Avoid non-composited animations	^
Animations which are not composited can be janky and increase CLS. <u>Learn more</u>	
Image elements have explicit width and height	^
Set an explicit width and height on image elements to reduce layout shifts and improve CLS. <u>Learn more</u>	



Accessibility

	Accessibility		
		se checks highlight opportunities to <u>improve the accessibility of your</u> <u>eb app</u> . Only a subset of accessibility issues can be automatically	
		detected so manual testing is also encouraged.	
Co	ntrast — These are opportunit	ies to improve the legibility of your content.	
A	Background and foreground o	olors 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		
		a.Link	
		a.Link	
		a.Link	
		a.Link	

	a.Link	
	a.Link	
	a.Link	
dditional items to manually ch	eck (10) — These items address areas which an automated testing tool cannot cover. Lea	arn 🔥
nore in our guide on <u>conducting a</u>		
The page has a logical tab or	der ows the visual layout. Users cannot focus elements that are offscreen. Learn more.	^
Interactive controls are keybo		^
Custom interactive controls a	re keyboard focusable and display a focus indicator. <u>Learn more</u> .	
Interactive elements indicate	heir purpose and state	^
Interactive elements, such as elements. <u>Learn more</u> .	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 dial	og, is added to the page, the user's focus is directed to it. Learn more.	
User focus is not accidentally	trapped in a region	^
A user can tab into and out of	any control or region without accidentally trapping their focus. <u>Learn more</u> .	
Custom controls have associa	ated labels	^
Custom interactive controls h	ave associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
Custom controls have ARIA r	ples	^
	ave appropriate ARIA roles. Learn more.	

Visual order on the page follows DOM order

web page. <u>Learn more</u>.

DOM order matches the visual order	er, improving navigation for assistive to	echnology. <u>Learn more</u> .
Offscreen content is hidden from a	ssistive technology	
Offscreen content is hidden with di	splay: none or aria-hidden=true. <u>Learr</u>	n more.
HTML5 landmark elements are use	d to improve navigation	
Landmark elements (<main>, <nav Learn more.</nav </main>	>, etc.) are used to improve the keybo	pard navigation of the page for assistive technology
ssed audits (10)		
[aria-hidden="true"] is not presen	on the document <body></body>	
Assistive technologies, like screen <u>Learn more</u> .	readers, work inconsistently when `ari	ia-hidden="true"` is set on the document ` <body>`.</body>
The page contains a heading, skip	link, or landmark region	
Adding ways to bypass repetitive of	ontent lets keyboard users navigate th	ne page more efficiently. <u>Learn more</u> .
Document has a <title> element</td><td></td><td></td></tr><tr><td>The title gives screen reader users is relevant to their search. <u>Learn m</u></td><td>• •</td><td>engine users rely on it heavily to determine if a pag</td></tr><tr><td>Heading elements appear in a seq</td><td>uentially-descending order</td><td></td></tr><tr><td>Properly ordered headings that do and understand when using assisti</td><td></td><td>tructure of the page, making it easier to navigate</td></tr><tr><td><html> element has a [lang] attribu</td><td>te</td><td></td></tr><tr><td></td><td>eader. If the page isn't actually in the</td><td>he page is in the default language that the user default language, then the screen reader might not</td></tr><tr><td><html> element has a valid value fo</td><td>r its [lang] attribute</td><td></td></tr><tr><td>Specifying a valid BCP 47 languag</td><td>e helps screen readers announce text</td><td>t properly. <u>Learn more</u>.</td></tr><tr><td>Links have a discernible name</td><td></td><td></td></tr><tr><td>Link text (and alternate text for imanavigation experience for screen re</td><td>,</td><td>rnible, unique, and focusable improves the</td></tr><tr><td>[user-scalable="no"] is not used in</td><td>the <meta name="viewport"> element a</td><td>and the [maximum-scale] attribute is not less than 5.</td></tr><tr><td>Disabling zooming is problematic f</td><td>or users with low vision who rely on so</td><td>creen magnification to properly see the contents of</td></tr></tbody></table></title>		

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.

Learn more.

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

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.

Not applicable (33)

[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 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>.

[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

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. [id] attributes on active, focusable elements are unique All focusable elements must have a unique 'id' to ensure that they're visible to assistive technologies. Learn more. ARIA IDs are unique The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. Learn more. No form fields have multiple labels Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either

the first, the last, or all of the labels. Learn more.

Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions.

<frame> or <iframe> elements have a title 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. Learn more. <input type="image"> elements have [alt] text When an image is being used as an `<input>` button, providing alternative text can help screen reader users understand the purpose of the button. Learn more. Form elements have associated labels Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more. Lists contain only elements and script supporting elements (<script> and <template>). Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. Learn more. List items () are contained within or parent elements Screen readers require list items ('') to be contained within a parent '' or '' to be announced properly. Learn more. The document does not use <meta http-equiv="refresh"> Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. Learn more. <object> elements have [alt] text Screen readers cannot translate non-text content. Adding alt 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. [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.



General

A	Uses deprecated APIs — 1 warning found		^
	Deprecated APIs will eventually be removed from the browser. <u>Learn more</u> .		
	Show 3rd	-party resources (0)
	Deprecation / Warning	Source	
	SharedArrayBuffer will require cross-origin isolation as of M91, around May 2021. See https://developer.chrome.com/blog/enabling-shared-array-buffer/ for more details.	vendors~main.ch unk.js:87136	
Pa	ssed audits (16)		^
	Uses HTTPS		^
	All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS intruders from tampering with or passively listening in on the communications between your app and your prerequisite for HTTP/2 and many new web platform APIs. <u>Learn more</u> .	S prevents	
	Links to cross-origin destinations are safe		^
	Add `rel="noopener"` or `rel="noreferrer"` to any external links to improve performance and prevent securit Learn more.	ty vulnerabilities.	
	Avoids requesting the geolocation permission on page load		^
	Users are mistrustful of or confused by sites that request their location without context. Consider tying the action instead. <u>Learn more</u> .	request to a user	
	Avoids requesting the notification permission on page load		^
	Users are mistrustful of or confused by sites that request to send notifications without context. Consider tyiuser gestures instead. <u>Learn more</u> .	ng the request to	
	Avoids front-end JavaScript libraries with known security vulnerabilities		^
	Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited <u>Learn more</u> .	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 display more.	size and the pixel ratio to maximize image clarity. <u>Learn</u>	
Page has the HTML doctype	^	
Specifying a doctype prevents the browser from switching to qu	irks-mode. <u>Learn more</u> .	
Properly defines charset	^	
A character encoding declaration is required. It can be done wit Content-Type HTTP response header. <u>Learn more</u> .	h 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 Consider using the `pagehide` or `visibilitychange` events instead		
Avoids Application Cache	^	
Application Cache is deprecated. <u>Learn more</u> .		
Detected JavaScript libraries	^	
All front-end JavaScript libraries detected on the page. <u>Learn more</u> .		
Name	Version	
React		
No browser errors logged to the console	^	
Errors logged to the console indicate unresolved problems. The concerns. <u>Learn more</u>	y can come from network request failures and other browser	
Page has valid source maps	^	
Source maps translate minified code to the original source code Lighthouse is able to provide further insights. Consider deploying more.		
	Show 3rd-party resources (0)	
URL	Map URL	
js/vendors~main.chunk.js (localhost)	js/vendors~main.chunk.js.map (localhost)	
Error: Timed out fetching resource.		
js/main.chunk.js (localhost)	js/main.chunk.js.map (localhost)	
Error: Timed out fetching resource.		
js/bundle.js (localhost)	js/bundle.js.map (localhost)	

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



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>.

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.

Document has a meta description

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

Page has successful HTTP status code

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

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.

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 (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. 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 and service worker meet the installability requirements

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>.

PWA Optimized

Registers 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>.

Redirects 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>.

Configured for a custom splash screen

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

Sets a theme color for the address bar.

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.

Provides 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

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. <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://localhost:3000/stocknews

Fetch Time Apr 27, 2021, 10:34 PM GMT+2

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/90.0.4430.85 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 956

Axe version 4.1.2

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