WEBTECH LAB-11

By:- 22CS2017(Abhivir Singh)

Q1.

Website-WikiPedia, LeetCode, Krunker



98 96 100 99

Performance Accessibility Best Practices SEO PWA



Performance

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





METRICS

First Contentful Paint

2.0 s

Total Blocking Time

0 ms

Speed Index

2.3 s

Largest Contentful Paint

2.0 s

Cumulative Layout Shift

0

₩ View Treemap









Expand view

DIAGNOSTICS

PASSED AUDITS (25)

98 96 100 99 PMA

c assets with an efficient cache policy — 5 resources found xcessive DOM size — 997 elements er response time was short — Root document took 170 ms ormous network payloads — Total size was 90 KiB ning critical requests — 2 chains found	*
er response time was short — Root document took 170 ms ormous network payloads — Total size was 90 KiB	~
ormous network payloads — Total size was 90 KiB	~
	~
ning critical requests — 2 chains found	~
execution time — 0.0 s	~
main-thread work — 1.9 s	~
ontentful Paint element — 2,030 ms	~
main-thread tasks — 2 long tasks found	~
-composited animations — 1 animated element found	~
J	ontentful Paint element — 2,030 ms g main-thread tasks — 2 long tasks found



Accessibility

These checks highlight opportunities to <u>improve the accessibility of your</u> <u>web app</u>. Automatic detection can only detect a subset of issues and does

Show

Lighthouse Report Viewer

not guarantee the accessibility of your web app, so <u>manual testing</u> is also encouraged

98 96 100



NAMES AND LABELS

4/9/24, 4:58 PM

Form elements do not have associated 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.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on <u>conducting an accessibility review</u>.

PASSED AUDITS (24)

Show

NOT APPLICABLE (36)

Show



Best Practices

TRUST AND SAFETY

Ensure CSP is effective against XSS attacks



PASSED AUDITS (14) Show

98 96 100 99



NOT APPLICABLE (2) Show



These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on Core Web Vitals. Learn more about Google Search Essentials.

MOBILE FRIENDLY

■ Tap targets are not sized appropriately — 94% appropriately sized tap targets

`

Make sure your pages are mobile friendly so users don't have to pinch or zoom in order to read the content pages. <u>Learn how to make pages mobile-friendly</u>.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Show

Run these additional validators on your site to check additional SEO best practices.

PASSED AUDITS (12) Show

NOT APPLICABLE (1) Show

98 96 100 99

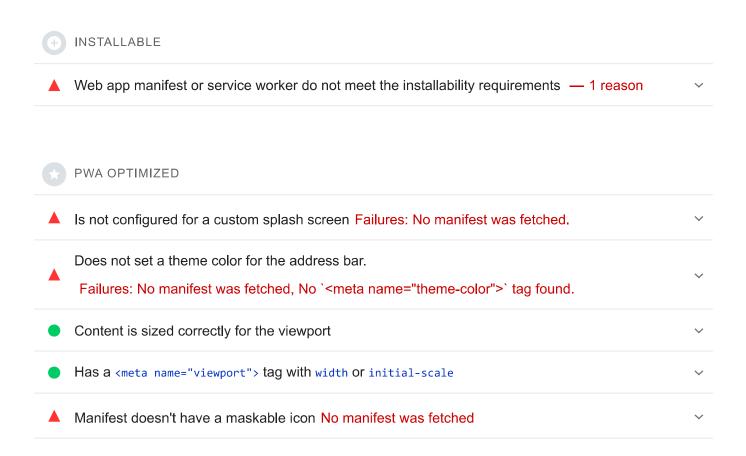


As per <u>Chrome's updated Installability Criteria</u>, Lighthouse will be deprecating the PWA category in a future release. Please refer to the <u>updated PWA documentation</u> for future PWA testing.



PWA

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





https://leetcode.com/



Performance



Accessibility



Best Practices



SEO



PWA



Performance

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0-4

50-89

90–100



METRICS Expand view

▲ First Contentful Paint

14.2 s

Total Blocking Time

1,400 ms

▲ Speed Index

15.7 s

▲ Largest Contentful Paint

19.5 s

Cumulative Layout Shift

0.167



















DIAGNOSTICS

▲ Reduce unused CSS — Potential savings of 98 KiB	~
▲ Reduce unused JavaScript — Potential savings of 1,916 KiB	~
▲ Reduce initial server response time — Root document took 660 ms	~
▲ Reduce JavaScript execution time — 6.8 s	~
▲ Minimize main-thread work — 11.2 s	~
▲ Reduce the impact of third-party code — Third-party code blocked the main thread for 1,450 ms	~
▲ Largest Contentful Paint element — 19,510 ms	~
▲ Avoid large layout shifts — 2 layout shifts found	~
Minify CSS — Potential savings of 2 KiB	~
Serve images in next-gen formats — Potential savings of 26 KiB	~
Enable text compression — Potential savings of 97 KiB	~
Avoid serving legacy JavaScript to modern browsers — Potential savings of 63 KiB	~
Avoid enormous network payloads — Total size was 3,870 KiB	~
Serve static assets with an efficient cache policy — 41 resources found	~
Ensure text remains visible during webfont load	~
Warnings: Lighthouse was unable to automatically check the `font-display` values for the origin https://assets.leetcode.com.	
Image elements do not have explicit width and height	~
O Avoids an excessive DOM size — 434 elements	~
O Avoid chaining critical requests — 29 chains found	~
 Avoid long main-thread tasks — 20 long tasks found 	~

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

PASSED AUDITS (18) Show



Accessibility

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NAMES AND LABELS

▲ Image elements do not have [alt] attributes

Select elements do not have associated label elements.

~

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.

BEST PRACTICES



[user-scalable="no"] is used in the <meta name="viewport"> element or the [maximum-scale] attribute is less than 5.

~

These items highlight common accessibility best practices.

CONTRAST



Background and foreground colors do not have a sufficient contrast ratio.

~

These are opportunities to improve the legibility of your content.

INTERNATIONALIZATION AND LOCALIZATION

▲ <html> element does not have a [lang] attribute</html>	~
These are opportunities to improve the interpretation of your content by users in different locales. ADDITIONAL ITEMS TO MANUALLY CHECK (10)	Show
These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review.	
PASSED AUDITS (8)	Show
NOT APPLICABLE (48)	Show



Best Practices

GENERAL

▲ Uses deprecated APIs — 1 warning found	~
▲ Registers an unload listener	~
O Detected JavaScript libraries	~
▲ Missing source maps for large first-party JavaScript	~

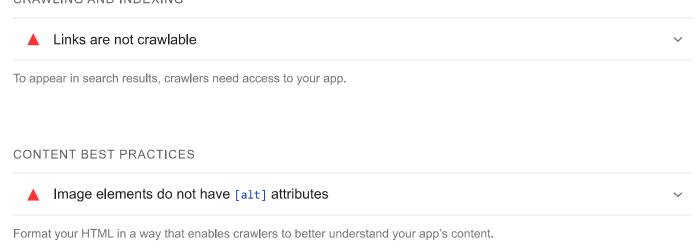
TRUST AND SAFETY

O Ensure CSP is effective against XSS attacks PASSED AUDITS (11) Show



These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on Core Web Vitals. Learn more about Google Search Essentials.

CRAWLING AND INDEXING



Run these additional validators on your site to check additional SEO best practices.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Show

PASSED AUDITS (11) Show

NOT APPLICABLE (1) Show

As per <u>Chrome's updated Installability Criteria</u>, Lighthouse will be deprecating the PWA category in a future release. Please refer to the <u>updated PWA documentation</u> for future PWA testing.



PWA

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

+ INSTALLABLE	
▲ Web app manifest or service worker do not meet the installability requirements — 1 reason	~
PWA OPTIMIZED	
▲ Is not configured for a custom splash screen Failures: No manifest was fetched.	~
Does not set a theme color for the address bar. Failures: No manifest was fetched, No ` <meta name="theme-color"/> ` tag found.	~
Content is sized correctly for the viewport	~

Has a <meta name="viewport"/> tag with width or initial-scale	~
▲ Manifest doesn't have a maskable icon No manifest was fetched	~
ADDITIONAL ITEMS TO MANUALLY CHECK (3)	Show
These checks are required by the baseline PWA Checklist but are not automatically checked by Lighthouse. The your score but it's important that you verify them manually.	ney do not affect

	☐ Emulated Desktop with Lighthouse	Single page session
GMT+5:30	11.5.0	
Ō Initial page load	7 Unknown	⊚ Using HeadlessChromium
		122.0.6261.94 with Ir

Generated by Lighthouse 11.5.0 | File an issue















Performance

Accessibility

Best Practices

SEO

PWA



Performance

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

50-89

90-100



METRICS Expand view

First Contentful Paint

2.4 s

Total Blocking Time

14,670 ms

Speed Index

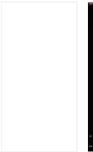
21.3 s

▲ Largest Contentful Paint

17.6 s

Cumulative Layout Shift

0.007















DIAGNOSTICS

	Eliminate render-blocking resources — Potential savings of 980 ms	~
A	Defer offscreen images — Potential savings of 840 KiB	~
A	Reduce unused CSS — Potential savings of 81 KiB	~
A	Reduce unused JavaScript — Potential savings of 1,322 KiB	~
A	Serve images in next-gen formats — Potential savings of 1,125 KiB	~
1	 Warnings: Unable to locate resource /textures/cardb_0.png?build=ekIORBM82 Unable to locate resource /img/vic.png Unable to locate resource /52286/texture.png Unable to locate resource /textures/stack_0.png?build=ekIORBM82 Unable to locate resource /img/def.png Unable to locate resource /textures/cone_0.png?build=ekIORBM82 	
A	Avoid an excessive DOM size — 1,239 elements	~
A	Reduce JavaScript execution time — 32.0 s	~
A	Minimize main-thread work — 62.8 s	~
A	Reduce the impact of third-party code — Third-party code blocked the main thread for 4,620 ms	~
A	Largest Contentful Paint element — 17,570 ms	~
	Properly size images — Potential savings of 184 KiB	~
	Enable text compression — Potential savings of 474 KiB	~
	Use video formats for animated content — Potential savings of 58 KiB	~
	Remove duplicate modules in JavaScript bundles — Potential savings of 9 KiB	~
	Avoid serving legacy JavaScript to modern browsers — Potential savings of 63 KiB	~
	Avoid enormous network payloads — Total size was 8,654 KiB	~
	Serve static assets with an efficient cache policy — 75 resources found	~

Ensure text remains visible during webfont load	~
Does not use passive listeners to improve scrolling performance	~
Image elements do not have explicit width and height	~
 Initial server response time was short — Root document took 310 ms 	~
O Avoid chaining critical requests — 18 chains found	~
 User Timing marks and measures — 6 user timings 	~
O Avoid large layout shifts — 2 layout shifts found	~
 Avoid long main-thread tasks — 20 long tasks found 	~
 Avoid non-composited animations — 2 animated elements found 	~

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

PASSED AUDITS (11) Show



Accessibility

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NAMES AND LABELS

▲ Image elements do not have [alt] attributes

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.

BEST PRACTICES



[user-scalable="no"] is used in the <meta name="viewport"> element or the [maximum-scale] attribute is less than 5.



These items highlight common accessibility best practices.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Show

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PASSED AUDITS (18)

Show

NOT APPLICABLE (41)

Show



Best Practices

GENERAL

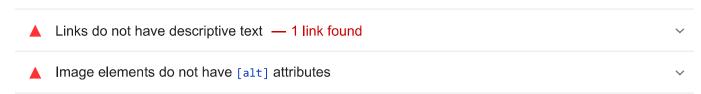
▲ Uses deprecated APIs — 1 warning found	~
▲ Uses third-party cookies — 4 cookies found	~
▲ Registers an unload listener	~

▲ Browser errors were logged to the console	~
▲ Issues were logged in the Issues panel in Chrome Devtools	~
O Detected JavaScript libraries	~
TRUST AND SAFETY	
Ensure CSP is effective against XSS attacks	~
PASSED AUDITS (9)	Show



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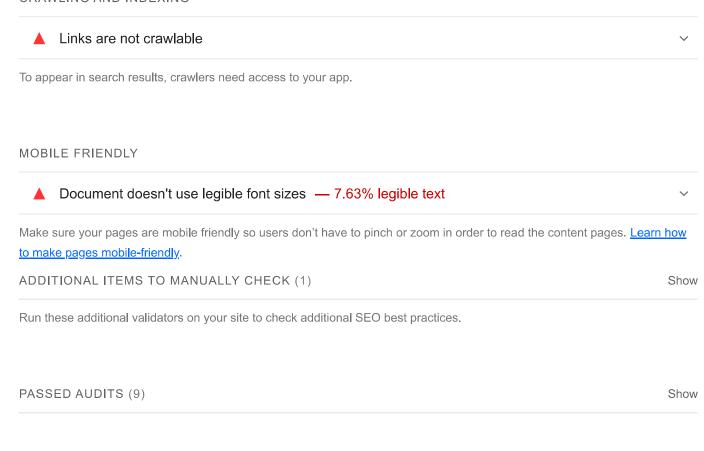
CONTENT BEST PRACTICES



Format your HTML in a way that enables crawlers to better understand your app's content.

CRAWLING AND INDEXING

NOT APPLICABLE (1)



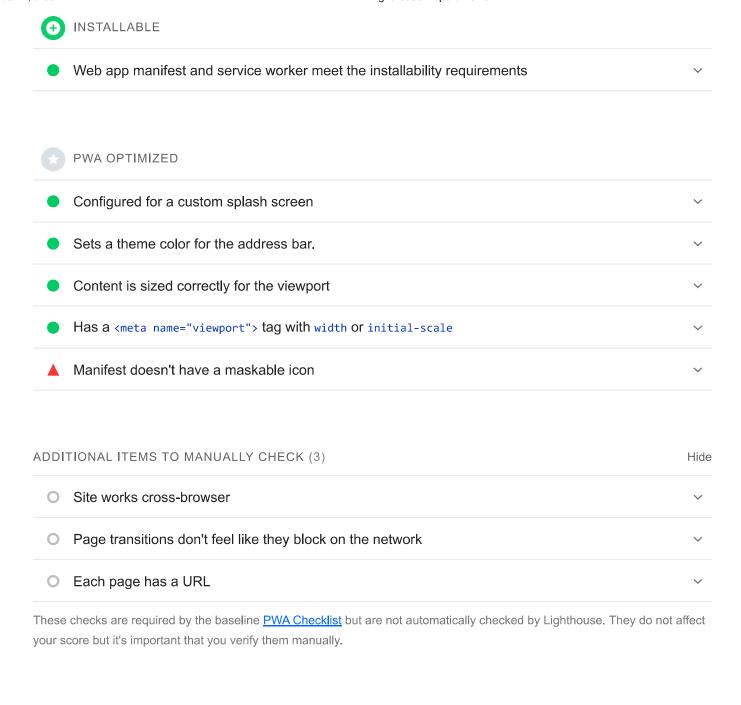
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PWA

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Show



☐ Captured at Apr 9, 2024, 5:04 PM

GMT+5:30

11.5.0

Thitial page load

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