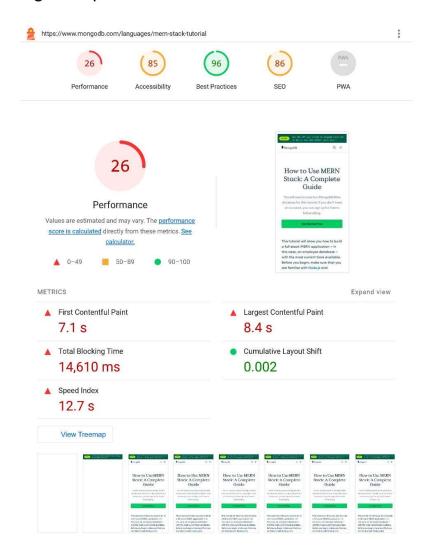
LAB-11

NAME- UJJWAL KUMAR

ROLL-22CS3064

BRANCH-CSE

Mongo db report:



DIAGNOSTICS

▲ Reduce unused CSS — Potential savings of 47 KiB	~
▲ Reduce unused JavaScript — Potential savings of 984 KiB	~
▲ Avoid serving legacy JavaScript to modern browsers — Potential savings of 37 KiB	~
▲ Avoid an excessive DOM size — 4,820 elements	~
▲ Reduce JavaScript execution time — 21.5 s	~
▲ Minimize main-thread work — 31.2 s	~
▲ Reduce the impact of third-party code — Third-party code blocked the main thread for 3,450 main thread for	ms v
▲ Largest Contentful Paint element − 8,420 ms	~
■ Eliminate render-blocking resources — Potential savings of 0 ms	~
■ Defer offscreen images — Potential savings of 43 KiB	~
 Serve images in next-gen formats — Potential savings of 11 KiB 	~
■ Enable text compression — Potential savings of 73 KiB	~
Remove duplicate modules in JavaScript bundles — Potential savings of 3 KiB	~
Avoid enormous network payloads — Total size was 3,139 KiB	~
■ Serve static assets with an efficient cache policy — 32 resources found	~
Does not use passive listeners to improve scrolling performance	~
Image elements do not have explicit width and height	~
O Initial server response time was short — Root document took 30 ms	~
O Avoid chaining critical requests — 8 chains found	~
○ User Timing marks and measures − 7 user timings	~
O Avoid large layout shifts — 2 layout shifts found	~

O Avoid long main-thread tasks - 20 long tasks found

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

PASSED AUDITS (15) Show



Accessibility

These checks highlight opportunities to <u>improve the accessibility of your web app</u>. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so <u>manual testing</u> is also encouraged.

NAMES AND LABELS

 ▲ Buttons do not have an accessible name
 ∨

 ▲ Image elements do not have [alt] attributes
 ∨

 ▲ Image elements have [alt] attributes that are redundant text.
 ∨

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.

NAVIGATION

▲ Heading elements are not in a sequentially-descending order

These are opportunities to improve keyboard navigation in your application.

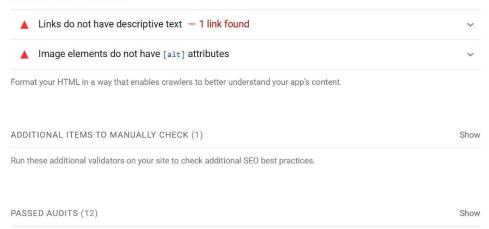
Ensure CSP is effective against XSS attacks	~
PASSED AUDITS (12)	Show
NOT APPLICABLE (1)	Show



SEO

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.

CONTENT BEST PRACTICES



ARIA

ARIA IDs are unique These are opportunities to improve the usage of ARIA in your application which may enhance the experience for users of assistive technology, like a screen reader. ADDITIONAL ITEMS TO MANUALLY CHECK (10) These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review. PASSED AUDITS (17) Show NOT APPLICABLE (36)



GENERAL

▲ Browser errors were logged to the console	~
O Detected JavaScript libraries	~
▲ Missing source maps for large first-party JavaScript	~

TRUST AND SAFETY

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.

Captured at Apr 9, 2024, 4:34 PM Emulated Desktop with Lighthouse Single page session

 GMT+5:30
 11.5.0

 Initial page load
 Unknown
 Using Headless Chromium

 122.0.6261.94 with Ir

Generated by **Lighthouse** 11.5.0 | File an issue

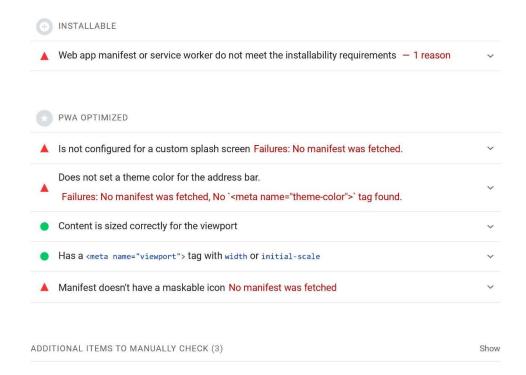
As per <u>Chrome's updated Installability Criteria</u>, <u>Lighthouse will be deprecating the PWA category in a future release</u>. Please refer to the <u>updated PWA documentation</u> for future PWA testing.



PWA

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

<u>makes a good Progressive Web App.</u>



Chatgpt report:



DIAGNOSTICS

A	Reduce unused CSS — Potential savings of 31 KiB	~
A	Avoid multiple page redirects — Potential savings of 950 ms	~
A	Reduce JavaScript execution time — 4.6 s	~
A	Minimize main-thread work — 5.6 s	~
A	Reduce the impact of third-party code — Third-party code blocked the main thread for 3,070 ms	~
A	Some third-party resources can be lazy loaded with a facade — 1 facade alternative available	~
A	Largest Contentful Paint element — 3,210 ms	~
	Reduce unused JavaScript — Potential savings of 1,085 KiB	~
	Avoid serving legacy JavaScript to modern browsers — Potential savings of 12 KiB	~
ı	Serve static assets with an efficient cache policy — 16 resources found	~
0	Initial server response time was short — Root document took 190 ms	~
0	Avoids enormous network payloads — Total size was 1,979 KiB	~
0	Avoids an excessive DOM size - 343 elements	~
0	Avoid chaining critical requests - 1 chain found	~
0	User Timing marks and measures — 4 user timings	~
0	Avoid long main-thread tasks — 14 long tasks found	~

 $\label{thm:model} \textit{More information about the performance of your application. These numbers don't \underline{\textit{directly affect}}\ the\ \textit{Performance score}.$













Performance

Accessibility

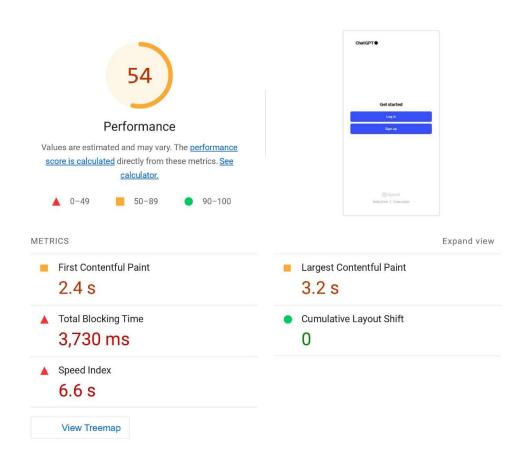
Best Practices

SEO

PWA

There were issues affecting this run of Lighthouse:

The page may not be loading as expected because your test URL (https://chat.openai.com/c/11922c62-b730-4edf-9fd6-b0e08117aa6a) was redirected to https://chat.openai.com/auth/login?
 next=%2Fc%2F11922c62-b730-4edf-9fd6-b0e08117aa6a. Try testing the second URL directly.



PASSED AUDITS (21) Show



Accessibility

These checks highlight opportunities to <u>improve the accessibility of your web app</u>. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so <u>manual testing</u> is also encouraged.

Background and foreground colors do not have a sufficient contrast ratio. These are opportunities to improve the legibility of your content. ADDITIONAL ITEMS TO MANUALLY CHECK (10) These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review. PASSED AUDITS (16) 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.

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 (2)	Show

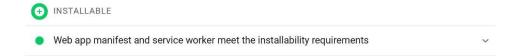
As per <u>Chrome's updated Installability Criteria</u>, <u>Lighthouse will be deprecating the PWA category in a future release</u>. Please refer to the <u>updated PWA documentation</u> for future PWA testing.



PWA

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

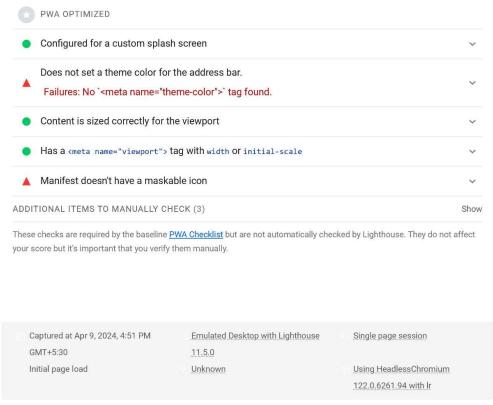
<u>makes a good Progressive Web App.</u>





Browser errors were logged to the console Detected JavaScript libraries TRUST AND SAFETY Ensure CSP is effective against XSS attacks PASSED AUDITS (13) Show





Generated by Lighthouse 11.5.0 | File an issue

Google classroom

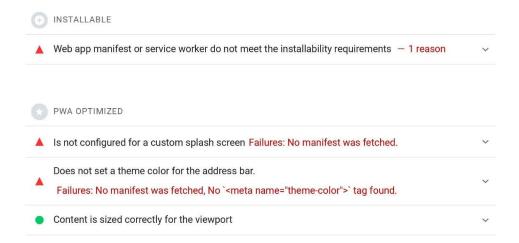
ADDITIONAL ITEMS TO MANUALLY CHECK (1)	Show
Run these additional validators on your site to check additional SEO best practices.	
PASSED AUDITS (13)	Show

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





GENERAL

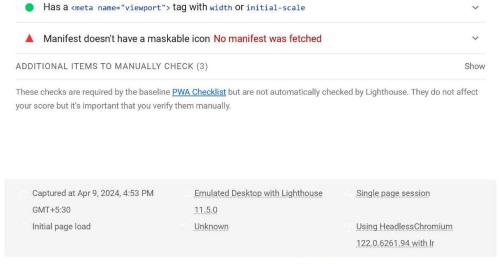
O Detected JavaScript libraries	*
PASSED AUDITS (14)	Shov
NOT APPLICABLE (2)	Shov



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.

CONTENT BEST PRACTICES





Generated by Lighthouse 11.5.0 | File an issue

 $More information about the performance of your application. These numbers don't \underline{\textit{directly affect}} \ the \ Performance score.$

PASSED AUDITS (22) Show



Accessibility

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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 (24)	Show
NOT APPLICABLE (36)	Show

report:













Performance

Accessibility

Best Practices

SE0

PWA

There were issues affecting this run of Lighthouse:

· The page may not be loading as expected because your test URL (https://classroom.google.com/c/NjQ3MjAxMDcyNTI0/a/NjYwNjQyMDcyNjE5/details) was redirected to https://accounts.google.com/v3/signin/identifier? continue=https%3A%2F%2Fclassroom.google.com%2Fc%2FNjQ3MjAxMDcyNTI0%2Fa%2FNjYwNjQyMDc yNjE5%2Fdetails&followup=https%3A%2F%2Fclassroom.google.com%2Fc%2FNjQ3MjAxMDcyNTI0%2Fa %2FNjYwNjQyMDcyNjE5%2Fdetails&ifkv=ARZ0qKIhukJ54xU0sVowEFnLJpeSBeqsf_tUNtQRdBP1JaXPp9 2AfPQJk27uv0XAPcwmLTZKfGu15w&passive=1209600&service=classroom&flowName=GlifWebSignIn& flowEntry=ServiceLogin&dsh=S839738381%3A1712661796408349&theme=mn&ddm=0. Try testing the second URL directly.



score is calculated directly from these metrics. See calculator.

▲ 0-49 50-89 90-100



Expand view

METRICS

▲ First Contentful Paint

4.3 s

Total Blocking Time

1,990 ms

▲ Largest Contentful Paint

4.5 s

Cumulative Layout Shift

0.209

▲ Speed Index

6.0 s

