

GitHub repo: <https://github.com/2Coo85/Project4.git>

## SEO Recommendations

### Contrast

1. Text should have high contrast and not have a brightness too close to the background brightness. Too low contrast can make it difficult to read and for users to distinguish the shapes of the letters.

Ref.-<https://web.dev/color-contrast/>

### Names and Labels

2. Links should have descriptive text
3. Images should have a short, descriptive [alt] if they are informative; decorative elements can be empty
4. Form labels should point to associated input

Ref.: <https://web.dev/label/> ; <https://web.dev/image-alt/> ; <https://web.dev/link-text/>

### Internationalization and localization

5. The <html> tag should specify a language to make it easier for screen readers to find the right sound library for the right language.

Ref.: <https://web.dev/html-has-lang/>

### Content Best Practices

6. Meta description should give a brief summary of a webpage that will be displayed in search results. They should also be directly relevant to the page it describes and unique from other pages; this can directly influence the click-through rate.

Ref.: <https://moz.com/learn/seo/meta-description>

### Focus Visible

7. Elements on page should be visibly highlighted for keyboard navigation

Ref.: <https://www.w3.org/WAI/WCAG21/quickref/#focus-visible>

### Mobile Friendly

8. Links should be spaced evenly away from each other so each link can be tapped or clicked with overlapping with another link

Ref.: <https://moz.com/learn/seo/mobile-optimization>

## **Navigation**

9. Pages should have headings for keyboard users to navigate the pages
10. Navigation should be consistent between pages

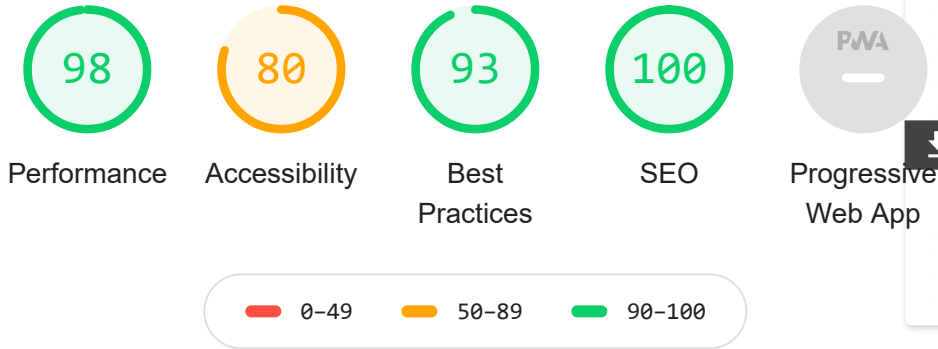
Ref.: <https://www.w3.org/WAI/WCAG21/quickref/#headings-and-labels>;

<https://www.w3.org/WAI/WCAG21/quickref/#consistent-navigation>

## **Black Hat Practice**

11. There should not be a flood of links; this lowers the rank of the website
12. Keywords should not be in small font, matching the background

Ref.: <https://www.pcmag.com/news/the-promises-and-pitfalls-of-black-hat-seo-practices>; **<https://www.forbes.com/sites/johnrampton/2015/07/29/25-black-hat-techniques-that-are-killing-your-seo/#5cd4004a6431>**



- Print Summary
- Print Expanded
- Copy JSON
- Save as HTML
- Save as JSON
- Open in Viewer
- Toggle Dark Theme



## Performance

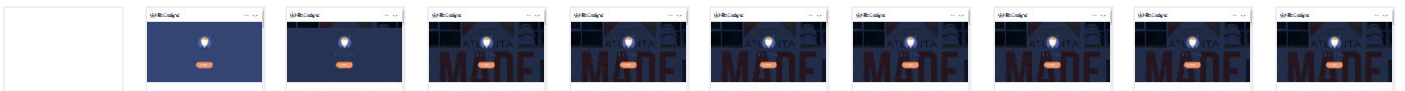
### Metrics



● First Contentful Paint	1.9 s	● First Meaningful Paint	1.9 s
● Speed Index	2.2 s	● First CPU Idle	1.9 s
● Time to Interactive	2.0 s	▲ Max Potential First Input Delay	270 ms

View Trace

Values are estimated and may vary. The performance score is based only on these metrics.



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

Opportunity	Estimated Savings
▲ Efficiently encode images	25.5 s
▲ Serve images in next-gen formats	25.5 s
▲ Properly size images	17.85 s
▲ Eliminate render-blocking resources	0.84 s
■ Remove unused CSS	0.15 s

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

▲ Avoid enormous network payloads — Total size was 10,302 KB	▼
▲ Serve static assets with an efficient cache policy — 24 resources found	▼
▲ Ensure text remains visible during webfont load	▼
● Avoid chaining critical requests — 11 chains found	▼
● Keep request counts low and transfer sizes small — 25 requests • 10,302 KB	▼
<b>Passed audits (14)</b>	▼



## 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.

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

▲ Background and foreground colors do not have a sufficient contrast ratio.	▼
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**Internationalization and localization** — These are opportunities to improve the interpretation of your content by users in different locales.

▲ <html> element does not have a valid value for its [lang] attribute.	▼
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**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.

▲ Links do not have a discernible name	▼
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**Additional items to manually check (11)** — These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

<b>Passed audits (8)</b>	▼
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<b>Not applicable (24)</b>	▼
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## Best Practices

▲ Includes front-end JavaScript libraries with known security vulnerabilities — 7 vulnerabilities detected

Passed audits (14)



## SEO

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. [Learn more.](#)

**Additional items to manually check (1)** — Run these additional validators on your site to check additional SEO best practices.

Passed audits (9)

Not applicable (4)



## Progressive Web App

These checks validate the aspects of a Progressive Web App. [Learn more.](#)

### Fast and reliable

- Page load is fast enough on mobile networks
- ▲ Current page does not respond with a 200 when offline
- ▲ start\_url does not respond with a 200 when offline No usable web app manifest found on page.

### Installable

- Uses HTTPS

▲ Does not register a service worker that controls page and start\_url ▼

▲ Web app manifest does not meet the installability requirements Failures: No manifest was fetched. ▼

## ★ PWA Optimized

● Redirects HTTP traffic to HTTPS ▼

▲ 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 `

● Content is sized correctly for the viewport ▼

● Has a <meta name="viewport"> tag with width or initial-scale ▼

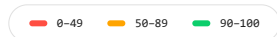
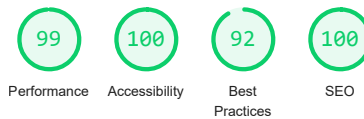
● Contains some content when JavaScript is not available ▼

▲ Does not provide a valid apple-touch-icon ▼

**Additional items to manually check (3)** — These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually. ▼

## Runtime Settings

URL	https://2coo85.github.io/Tasya-MainHub/index.html
Fetch time	Jul 8, 2020, 8:53 AM CDT
Device	Emulated Desktop
Network throttling	150 ms TCP RTT, 1,638.4 Kbps throughput (Simulated)
CPU throttling	4x slowdown (Simulated)
User agent (host)	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.116 Safari/537.36
User agent (network)	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3694.0 Safari/537.36 Chrome-Lighthouse
CPU/Memory Power	648



## 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	0.8 s	■ Cumulative Layout Shift	0.137

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

[View Trace](#)



**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	▼
▲ Serve static assets with an efficient cache policy — 23 resources found	▼
● Avoid chaining critical requests — 2 chains found	▼
● Keep request counts low and transfer sizes small — 27 requests • 641 KB	▼
● Largest Contentful Paint element — 1 element found	▼
● Avoid large layout shifts — 5 elements found	▼
<b>Passed audits</b> (24)	▼



## 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.

**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) ▼

**Not applicable** (25) ▼



## Best Practices

### General

▲ Browser errors were logged to the console	▼
<b>Passed audits</b> (13)	▼



## SEO

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. [Learn more.](#)

**Additional items to manually check** (1) — Run these additional validators on your site to check additional SEO best ▼

practices.

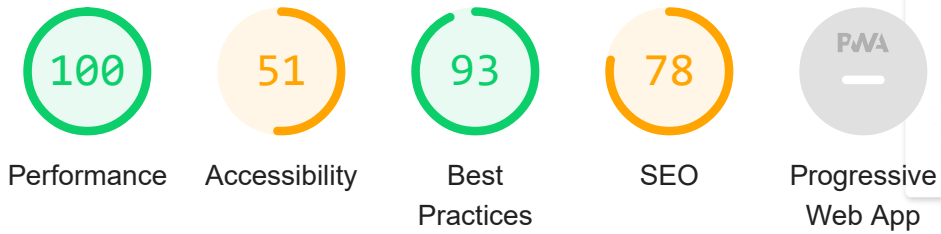
Passed audits (9)	▼
Not applicable (4)	▼

Runtime Settings

URL	https://2coo85.github.io/Project4/index.html
Fetch Time	Jul 22, 2020, 9:17 AM CDT
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/84.0.4147.89 Safari/537.36 Edg/84.0.522.40
User agent (network)	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3963.0 Safari/537.36 Chrome-Lighthouse
CPU/Memory Power	1136

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- Copy JSON
- Save as HTML
- Save as JSON
- Open in Viewer
- Toggle Dark Theme

0-49 50-89 90-100



## Performance

### Metrics



First Contentful Paint	1.3 s	First Meaningful Paint	1.3 s
Speed Index	1.3 s	First CPU Idle	1.3 s
Time to Interactive	1.3 s	Max Potential First Input Delay	20 ms

View Trace

Values are estimated and may vary. The performance score is based only on these metrics.



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

Opportunity	Estimated Savings
Eliminate render-blocking resources	0.32 s
Serve images in next-gen formats	0.15 s

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

▲ Serve static assets with an efficient cache policy — 6 resources found

- Avoid chaining critical requests — 10 chains found
- Keep request counts low and transfer sizes small — 14 requests • 190 KB

Passed audits (19)



## 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.

**Navigation** — These are opportunities to improve keyboard navigation in your application.

- ▲ The page does not contain a heading, skip link, or landmark region

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

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

**Internationalization and localization** — These are opportunities to improve the interpretation of your content by users in different locales.

- ▲ `<html>` element does not have a valid value for its `[lang]` attribute.

**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.

- ▲ Image elements do not have `[alt]` attributes
- ▲ Form elements do not have associated labels
- ▲ Links do not have a discernible name

**Additional items to manually check (11)** — These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

Passed audits (7)

Not applicable (22)



## Best Practices

▲ Browser errors were logged to the console



Passed audits (14)



## SEO

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. [Learn more](#).

**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 **Description text is empty.**



▲ Image elements do not have [alt] attributes



**Additional items to manually check (1)** — Run these additional validators on your site to check additional SEO best practices.



Passed audits (7)



Not applicable (4)



## Progressive Web App

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**Fast and reliable**

- Page load is fast enough on mobile networks
- ▲ Current page does not respond with a 200 when offline
- ▲ start\_url does not respond with a 200 when offline **No usable web app manifest found on page.**

### Installable

- Uses HTTPS
- ▲ Does not register a service worker that controls page and start\_url
- ▲ Web app manifest does not meet the installability requirements **Failures: No manifest was fetched.**

### PWA Optimized

- Redirects HTTP traffic to HTTPS
- ▲ 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 `**
- Content is sized correctly for the viewport
- Has a `<meta name="viewport">` tag with width or initial-scale
- Contains some content when JavaScript is not available
- ▲ Does not provide a valid apple-touch-icon

**Additional items to manually check (3)** — These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

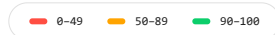
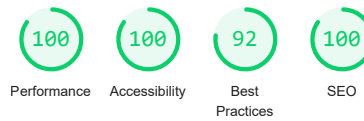
### Runtime Settings

URL	https://2coo85.github.io/Tasya-MainHub/page2.html
Fetch time	Jul 8, 2020, 9:17 AM CDT
Device	Emulated Desktop
Network throttling	150 ms TCP RTT, 1,638.4 Kbps throughput (Simulated)
CPU throttling	4x slowdown (Simulated)
User agent (host)	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.116 Safari/537.36
User agent (network)	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3694.0 Safari/537.36 Chrome-Lighthouse

CPU/Memory Power

672

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## 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	0.7 s	● Cumulative Layout Shift	0.001

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

[View Trace](#)



**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
- ▲ Serve static assets with an efficient cache policy — 11 resources found
- Avoid chaining critical requests — 2 chains found
- Keep request counts low and transfer sizes small — 15 requests • 310 KB
- Largest Contentful Paint element — 1 element found
- Avoid large layout shifts — 5 elements found

Passed audits (24)



## 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.

**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 (18)

Not applicable (23)



## Best Practices

### General

- ▲ Browser errors were logged to the console

Passed audits (13)



## SEO

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. [Learn more.](#)

**Additional items to manually check (1)** — Run these additional validators on your site to check additional SEO best

practices.

Passed audits (9)	▼
Not applicable (4)	▼

Runtime Settings	
URL	https://2coo85.github.io/Project4/contactMe.html
Fetch Time	Jul 22, 2020, 9:19 AM CDT
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/84.0.4147.89 Safari/537.36 Edg/84.0.522.40
User agent (network)	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3963.0 Safari/537.36 Chrome-Lighthouse
CPU/Memory Power	1174

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