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First Contentful Paint	2.6 s	Time to Interactive	2.7 s
Speed Index	2.6 s	Total Blocking Time	100 ms
 Largest Contentful Paint	4.4 s	Cumulative Layout Shift	0.116

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
 Properly size images	1.35 s 
 Eliminate render-blocking resources	0.96 s 

Remove unused CSS

0.3 s ▼

Remove unused JavaScript

0.15 s ▼

**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	▼
▲ Image elements do not have explicit <a href="#">width</a> and <a href="#">height</a>	▼
▲ Serve static assets with an efficient cache policy — 21 resources found	▼
Minimize main-thread work — 2.3 s	▼
Avoid chaining critical requests — 9 chains found	▼
Keep request counts low and transfer sizes small — 23 requests • 2,247 KiB	▼
Largest Contentful Paint element — 1 element found	▼
Avoid large layout shifts — 4 elements found	▼
Avoid long main-thread tasks — 5 long tasks found	▼
Passed audits (22)	▼



## 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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**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 (24) ▼



## Best Practices

### Trust and Safety

- ▲ Includes front-end JavaScript libraries with known security vulnerabilities — 9 vulnerabilities detected ▼

### User Experience

- ▲ Serves images with low resolution ▼

### Passed audits (14)

### Not applicable (1)



## 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 (12)

### Not applicable (2)





# 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	✓
▲ <code>start_url</code> does not respond with a 200 when offline <b>No usable web app manifest found on page.</b>	✓

## Installable

Uses HTTPS	✓
▲ Does not register a service worker that controls page and <code>start_url</code>	✓
▲ Web app manifest does not meet the installability requirements <b>Failures: No manifest was fetched.</b>	✓

## PWA Optimized

Redirects HTTP traffic to HTTPS	✓
▲ Is not configured for a custom splash screen <b>Failures: No manifest was fetched.</b>	✓
▲ Does not set a theme color for the address bar. <b>Failures: No manifest was fetched, No <code>&lt;meta name="theme-color"&gt;</code> tag found.</b>	✓
Content is sized correctly for the viewport	✓
Has a <code>&lt;meta name="viewport"&gt;</code> tag with <code>width</code> or <code>initial-scale</code>	✓
Contains some content when JavaScript is not available	✓
▲ Does not provide a valid <code>apple-touch-icon</code>	✓
▲ Manifest doesn't have a maskable icon <b>No manifest was fetched</b>	✓

**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://htamlyn.github.io/oc-project4/index.html>

<b>Fetch Time</b>	Feb 24, 2021, 11:13 AM GMT
<b>Device</b>	Emulated Moto G4
<b>Network throttling</b>	150 ms TCP RTT, 1,638.4 Kbps throughput (Simulated)
<b>CPU throttling</b>	4x slowdown (Simulated)
<b>Channel</b>	devtools
<b>User agent (host)</b>	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_4) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/88.0.4324.182 Safari/537.36
<b>User agent (network)</b>	Mozilla/5.0 (Linux; Android 7.0; Moto G (4)) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/84.0.4143.7 Mobile Safari/537.36 Chrome-Lighthouse
<b>CPU/Memory Power</b>	1331
<b>Axe version</b>	3.5.5

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