



Performance



Progressive Web App



Accessibility



Best Practices



SEO

Score scale: 0-49 50-89 90-100

Performance



Metrics

First Contentful Paint	860 ms	✓	First Meaningful Paint	860 ms	✓
Speed Index	1,140 ms	✓	First CPU Idle	2,110 ms	✓
Time to Interactive	2,110 ms	✓	Estimated Input Latency	23 ms	✓



Opportunities

These are opportunities to speed up your application by optimizing the following resources.

Opportunity	Estimated Savings
1 Properly size images	0.31 s
2 Eliminate render-blocking resources	0.3 s
3 Use video formats for animated content	0.27 s
4 Enable text compression	0.23 s

Diagnostics

More information about the performance of your application.

1 Critical Request Chains	3 chains found	✓
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Passed audits

17 audits

1	Defer offscreen images		✓	▼
2	Minify CSS	Potential savings of 7 KB	✓	▼
3	Minify JavaScript		✓	▼
4	Defer unused CSS	Potential savings of 137 KB	✓	▼
5	Efficiently encode images		✓	▼

6	Serve images in next-gen formats		✓	▼
7	Avoid multiple, costly round trips to any origin	Potential savings of 0 ms	✓	▼
8	Keep server response times low (TTFB)		✓	▼
9	Avoid multiple page redirects	0 ms	✓	▼
10	Preload key requests	Potential savings of 0 ms	✓	▼
11	Avoids enormous network payloads	Total size was 943 KB	✓	▼
12	Uses efficient cache policy on static assets	0 assets found	✓	▼
13	Avoids an excessive DOM size	151 nodes	✓	▼
14	User Timing marks and measures		✓	▼
15	JavaScript boot-up time	510 ms	✓	▼
16	Minimizes main thread work	1,300 ms	✓	▼
17	All text remains visible during webfont loads		✓	▼

Progressive Web App

These checks validate the aspects of a Progressive Web App, as specified by the baseline [PWA Checklist](#).



1	Does not respond with a 200 when offline		⚠	▼
2	User will not be prompted to Install the Web App Failures: No manifest was fetched, Site does not register a service worker.		⚠	▼
3	Does not redirect HTTP traffic to HTTPS		⚠	▼
4	Does not have a <meta name="viewport"> tag with width or initial-scale No viewport meta tag found		⚠	▼
5	Does not register a service worker		⚠	▼
6	Is not configured for a custom splash screen Failures: No manifest was fetched.		⚠	▼
7	Address bar does not match brand colors Failures: No manifest was fetched.		⚠	▼
8	Content is not sized correctly for the viewport The viewport size is 1483px, whereas the window size is 1920px.		⚠	▼

Q

Additional items to manually check

3 audits

✓

Passed audits

3 audits

1

Page load is fast enough on 3G

✓

2

Uses HTTPS

✓

3

Contains some content when JavaScript is not available

✓

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.



Elements Use Attributes Correctly

These are opportunities to improve the configuration of your HTML elements.

- 1
Image elements do not have `[alt]` attributes

Elements Are Well Structured

These are opportunities to make sure your HTML is appropriately structured.

- 1
`[id]` attributes on the page are not unique

- Additional items to manually check

10 audits
- Passed audits

12 audits

ARIA Attributes Follow Best Practices

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.

- 1
`[role]`s have all required `[aria-*)` attributes
- 2
Elements with `[role]` that require specific children `[role]`s, are present
- 3
`[role]`s are contained by their required parent element
- 4
`[role]` values are valid

Elements Have Discernible Names

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.

- 1
Links have a discernible name

Elements Describe Contents Well

These are opportunities to make your content easier to understand for a user of assistive technology, like a screen reader.

- 1
The page contains a heading, skip link, or landmark region
- 2
Document has a `<title>` element

Color Contrast Is Satisfactory

These are opportunities to improve the legibility of your content.

- 1
Background and foreground colors have a sufficient contrast ratio

Elements Are Well Structured

These are opportunities to make sure your HTML is appropriately structured.

- 1
Lists contain only `` elements and script supporting elements (`<script>` and `<template>`).
- 2
List items (``) are contained within `` or `` parent elements

Page Specifies Valid Language

These are opportunities to improve the interpretation of your content by users in different locales.

- 1
`<html>` element has a `[lang]` attribute

2 <html> element has a valid value for its [lang] attribute

Not applicable

21 audits

Best Practices



- 1 Does not use HTTP/2 for all of its resources17 requests not served via HTTP/2
- 2 Page is missing the HTML doctypeDocument must contain a doctype
- 3 Includes front-end JavaScript libraries with known security vulnerabilities1 vulnerability detected
- 4 Browser errors were logged to the console

Passed audits

11 audits

- 1 Avoids Application Cache
- 2 Avoids WebSQL DB
- 3 Uses HTTPS
- 4 Uses passive listeners to improve scrolling performance
- 5 Avoids document.write()
- 6 Links to cross-origin destinations are safe
- 7 Avoids requesting the geolocation permission on page load
- 8 Avoids requesting the notification permission on page load
- 9 Avoids deprecated APIs
- 10 Allows users to paste into password fields
- 11 Displays images with correct aspect ratio

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.](#)

Mobile Friendly

Make sure your pages are mobile friendly so users don't have to pinch or zoom in order to read the content pages. [Learn more.](#)

- 1 Does not have a <meta name="viewport"> tag with width or initial-scaleNo viewport meta tag found
- 2 Document doesn't use legible font sizesText is illegible because of a missing viewport config

Content Best Practices

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


- 1 Document does not have a meta description

Crawling and Indexing

To appear in search results, crawlers need access to your app.









1	robots.txt is not valid	29 errors found		
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	Additional items to manually check	2 audits	
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	Passed audits	6 audits	
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Content Best Practices

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

1	Document has a <title> element		
2	Links have descriptive text		
3	Document has a valid hreflang		
4	Document avoids plugins		

Crawling and Indexing

To appear in search results, crawlers need access to your app.

1	Page has successful HTTP status code		
2	Page isn’t blocked from indexing		

	Not applicable	1 audits	
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Runtime settings

- **URL:** https://spatialwits.azurewebsites.net/
- **Fetch time:** Oct 13, 2018, 1:23 PM GMT+2
- **Device:** No emulation
- **Network throttling:** Provided by environment
- **CPU throttling:** Provided by environment
- **User agent (host):** Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36