lighthouse

progressive web apps

Progressive Web Apps

Smaller Pictures

AliExpress

RioRun

かな

service worker

service worker manifest

service worker manifest
short_name

service worker

manifest

short_name

https

service worker

manifest

`short_name`

https

144×144 icon

service worker

manifest

short_name

https

144×144 icon

loadable front page

service worker

manifest

`short_name`

https

144×144 icon

loadable front page

png icon format

service worker

manifest

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two visits within an hour

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two visits within an hour

not cancelled with `onbeforeinstallprompt`

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two visits within an hour

not cancelled with `onbeforeinstallprompt`

...whatever other requirements come up...

stop the madness

Progressive Web App

These audits validate the aspects of a Progressive Web App.

App can load on offline/flaky connections

Ensuring your web app can respond when the network connection is unavailable or flaky is critical to providing your users a good experience. This is achieved through use of a [Service Worker](#).

- Has a registered Service Worker
- URL responds with a 200 when offline
- Manifest's start_url is in cache storage for offline use (Coming soon)

Page load performance is fast

Users notice if sites and apps don't perform well. These top-level metrics capture the most important perceived performance concerns.

- First meaningful paint (target value: 1,000ms)
- Speed Index (target value: 1,000)
- Content scrolls at 60fps (Coming soon)
- Touch input gets a response in < 150ms (Coming soon)
- App is interactive without jank after the first meaningful paint (Coming soon)

Network connection is secure

Security is an important part of the web for both developers and users. Moving forward, Transport Layer Security (TLS) support will be required for many APIs.

- Site is on HTTPS

Site is progressively enhanced: 100%
 -- Page contains some content when its scripts are not available: true

Network connection is secure: 100%
 -- Site is on HTTPS: true
 -- Site redirects HTTP traffic to HTTPS: true

User can be prompted to Add to Homescreen: 20%
 -- Has a registered Service Worker: true
 -- Manifest exists: false
    Unable to retrieve manifest
 -- Manifest contains start_url: false
 -- Manifest contains icons at least 144px: false
    WARNING: No icons found in the manifest
 -- Manifest contains short_name: false

Installed web app will launch with custom splash screen: 0%
 -- Manifest exists: false
    Unable to retrieve manifest
 -- Manifest contains name: false
 -- Manifest contains background_color: false
 -- Manifest contains theme_color: false
 -- Manifest contains icons at least 192px: false
    WARNING: No icons found in the manifest

Address bar matches brand colors: 33%
 -- Manifest exists: false
    Unable to retrieve manifest
 -- HTML has a theme-color <meta>: true (#2196F3)
 -- Manifest contains theme_color: false

Design is mobile-friendly: 100%
 -- HTML has a viewport <meta>: true
 -- Content is sized correctly for the viewport: true

Name: Best Practices
Description: These audits do not affect your score but are worth a look.

 -- Element aria-* roles are valid: true
 -- Element aria-* attributes are valid ARIA attributes: true
 -- Background and foreground colors have a sufficient contrast ratio: false
    Elements must have sufficient color contrast (Failed on 1 element)
      - Rating: critical
      - See: https://dequeuniversity.com/rules/axe/1.1/color-contrast
      - Nodes: 1 nodes identified (see HTML output for details)
 -- Every image element has an alt attribute: true
 -- Every form element has a label: true
 -- Manifest's short_name won't be truncated when displayed on homescreen: false
 -- Manifest's display property is set: false

github.com/GoogleChrome/lighthouse