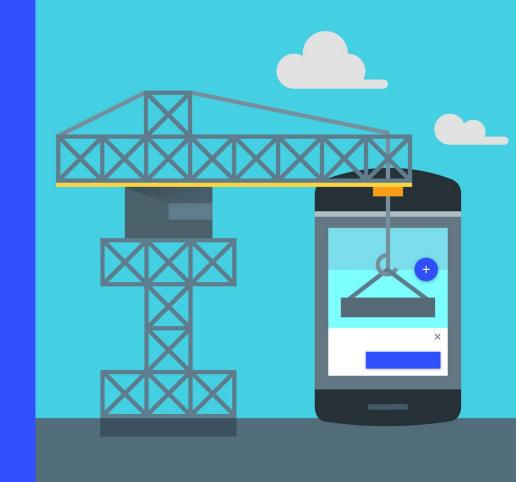
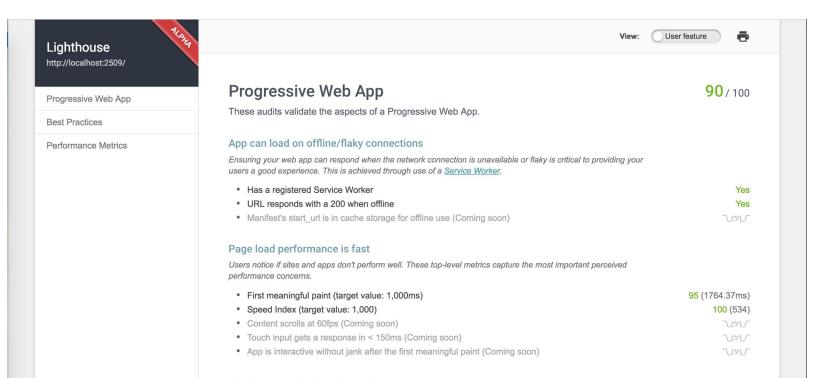
Testing your progressive web application

Using Lighthouse



Huh?

- What is Lighthouse and why should you use it?
- Lighthouse extension for Chrome
- Lighthouse from the command line
- Understanding the report



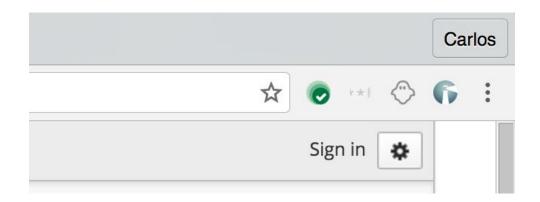


Progressive enhancement means that everyone can access the basic content and functionality of a page in any browser, and those without certain browser features may receive a reduced but not unfunctioning experience.

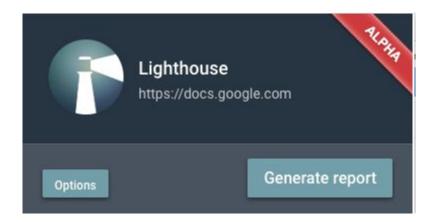
· Page contains some content when its scripts are not available

Yes

Lighthouse Extension for Chrome



Generating a Lighthouse report



Lighthouse
https://airhorner.com/

Progressive Web App

Best Practices

Performance Metrics

View:

v: User feature

•

Progressive Web App

100/100

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

Yes

URL responds with a 200 when offline

Yes

. 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)

100 (684.35ms)

Speed Index (target value: 1,000)
 Content scrolls at 60fps (Coming soon)

100

• Touch input gets a response in < 150ms (Coming soon)

· App is interactive without jank after the first meaningful paint (Coming soon)

(")]_[

Site is progressively enhanced

Progressive enhancement means that everyone can access the basic content and functionality of a page in any browser, and those without certain browser features may receive a reduced but not unfunctioning experience.

Page contains some content when its scripts are not available

Yes

Command-line Lighthouse

Install/Run Lighthouse

```
$ npm install -g GoogleChrome/lighthouse
$ npm explore -g lighthouse -- npm run chrome
$ lighthouse https://www.airhorner.com/
```



```
method <= prowser UK Network.emulatenetworkconditions {}
Lighthouse results: https://wiki-offline.jakearchibald.com/
App can load on offline/flaky connections: 100%
 -- Has a registered Service Worker: true
 -- URL responds with a 200 when offline: true
 -- Manifest's start_url is in cache storage for offline use: "\_(ツ)_/"
Page load performance is fast: 100%
 -- First meaningful paint: 100 (597.25ms)
 -- Speed Index: 100 (656)
 -- Content scrolls at 60fps: 「\_(ツ)_/
 -- Touch input gets a response in < 150ms: \_(ツ)_/
 -- App is interactive without jank after the first meaningful paint: "\_(ツ)_/"
Network connection is secure: 50%
 -- Site is on HTTPS: true
User can be prompted to Add to Homescreen: 100%
 -- Has a registered Service Worker: true
 -- Manifest exists: true
 -- Manifest contains start_url: true
 -- Manifest contains icons at least 144px: true
    Found icons of sizes: 144x144,192x192
 -- Manifest contains short name: true
Installed web app will launch with custom splash screen: 67%
```