

Progressive Web App Example Output

Progressive Web Applications are rich web apps that support the technology, design concepts, and Web APIs that work in tandem to provide an app-like experience on the web. They can receive Push messages, work offline, added to the home screen & perform like apps.

This is the sample that demonstrates how the Kony Web Application output implements support for Progressive Web Application capabilities.

The provided sample can be imported into Kony Fabric console and the web app can then be published to a Kony Fabric runtime environment.

Lighthouse (<https://developers.google.com/web/tools/lighthouse/>) was used to evaluate the Progressive Web App Score against the Baseline Progressive Web App Checklist.

Features implemented to enable Progressive Web Apps:

- Service Workers: This app has the capability to register for a service worker and can load pages and work offline.
- Site is Served over HTTPS
- The Web Application is Responsive and web pages are designed to be Mobile & Tablet friendly.
- App can prompt user to add to Home Screen.
- The first load is fast but may differ based on the amount of resources being packaged on the initial screen.
- Site works across browsers
- Content is sized correctly for the View Port

In addition to these features, the Kony Web App Output can support features like SEO, animations, gestures and accessibility to improve the overall usability & discoverability of the application.

Lighthouse Score:

Lighthouse is an automated tool for evaluating & improving the current quality of web pages. You can run it against any web page, public or requiring authentication. It has audits for performance, accessibility, progressive web apps, and more.

In this application we have used Lighthouse to evaluate the Progressive Web App score for a Kony Web Output.

Lighthouse has audited this application with a score of 82.

Lighthouse
Version: 2.9.0.280

Results for: https://aws-viz-ent-mf.qa-konycloud.com/KonyPWA/#_frmAccountsLanding
Mar 15, 2018, 9:26 AM EDT • ▶ Runtime settings

Progressive Web App

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

82

Performance 88

Progressive Web App 82

Accessibility 25

Best Practices 63

SEO 78

2 Failed Audits

- ▶ Does not redirect HTTP traffic to HTTPS ❌
- ▶ Page load is not fast enough on 3G ❌
First Interactive was at 19,760 ms. More details in the "Performance" section.

9 Passed Audits

- ▶ Registers a service worker ✓
- ▶ Responds with a 200 when offline ✓
- ▶ Contains some content when JavaScript is not available ✓
- ▶ Uses HTTPS ✓
- ▶ User can be prompted to Install the Web App ✓
- ▶ Configured for a custom splash screen ✓
- ▶ Address bar matches brand colors ✓
- ▶ Has a `<meta name="viewport">` tag with width or initial-scale ✓
- ▶ Content is sized correctly for the viewport ✓

▶ Additional items to manually check

9 out of 11 audits passed for Progressive Web Output.

The two failing audits were:

- Server does not redirect HTTP to HTTPS: This is a server-side configuration and not an application level implementation. This configuration can be added to the server to improve the overall score.
- Page load is not fast enough on 3G: This site serves rich content with a lot of large images. Configuring gzip on the server or having a lightweight app entry page will improve the overall score.