

Progressive Web Apps && Salesforce



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@BrettMN

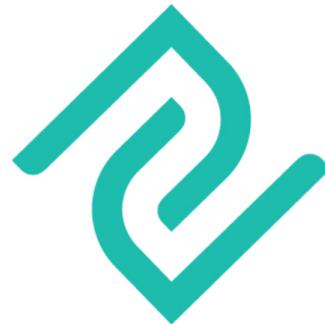
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Round of applause for our Platinum Sponsors!



shellblack



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What is a Progressive Web App?

A web site that combines the best features of native apps and mobile websites.

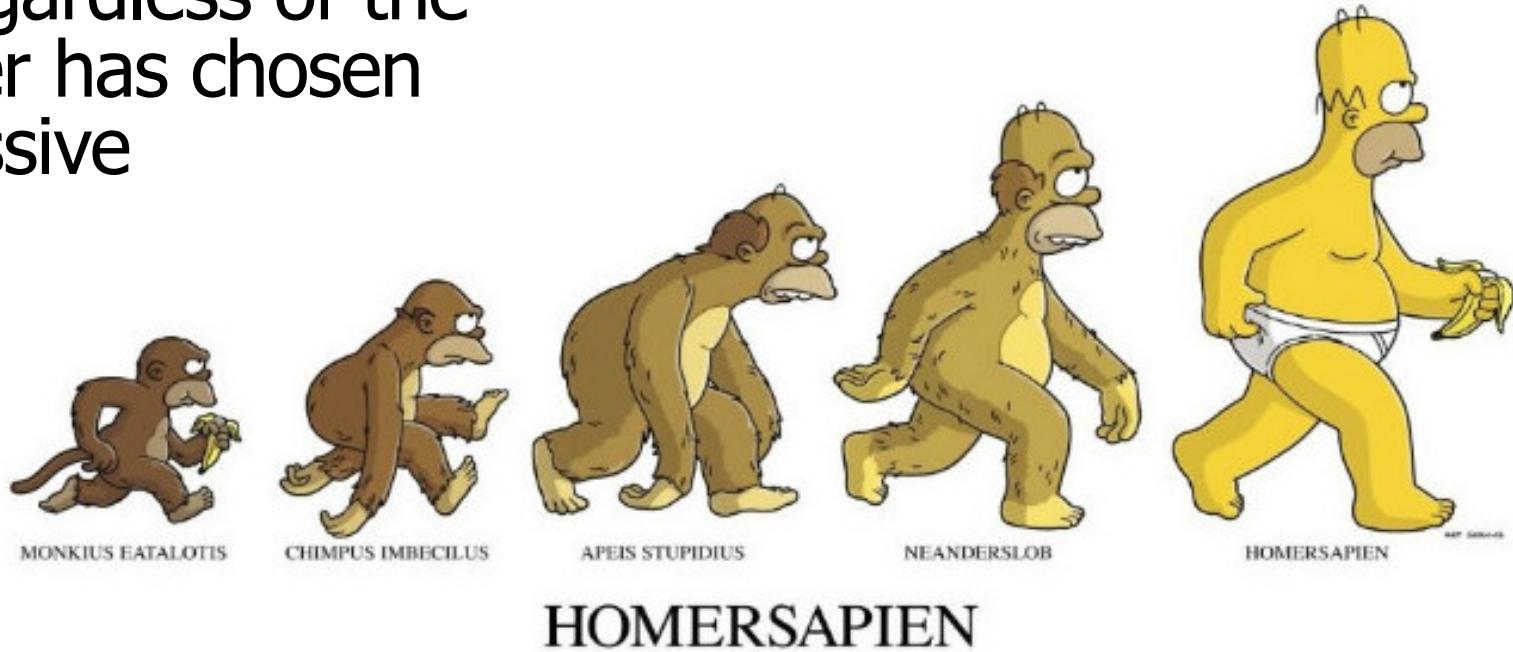


Characteristics of a PWA



Progressive

Built to work regardless of the browser the user has chosen through progressive enhancements.



HOMERSAPIEN



Responsive

UI adapts



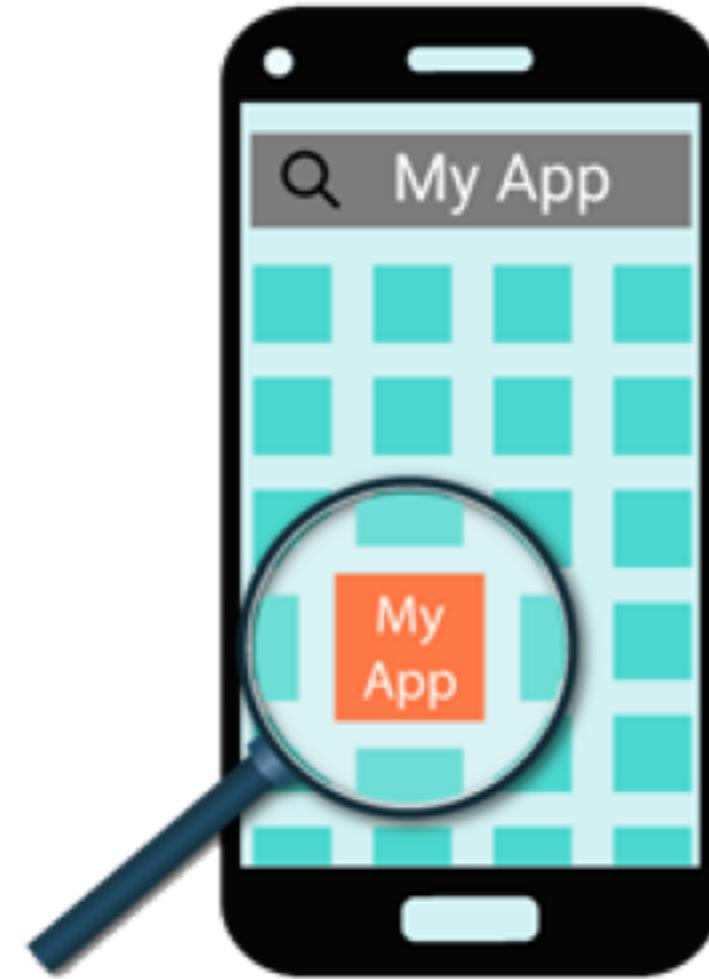
Independent of Connection Quality

Offline/poor connection handled by serviceworker.



App like Experience

Looks like an app. Feels like an app. Is designed like an app with an app shell.



Fresh



Up to date data with background refresh
via serviceworker



Safe

Served over HTTPS



Discoverable



Is identified as an app through it's manifest.json.



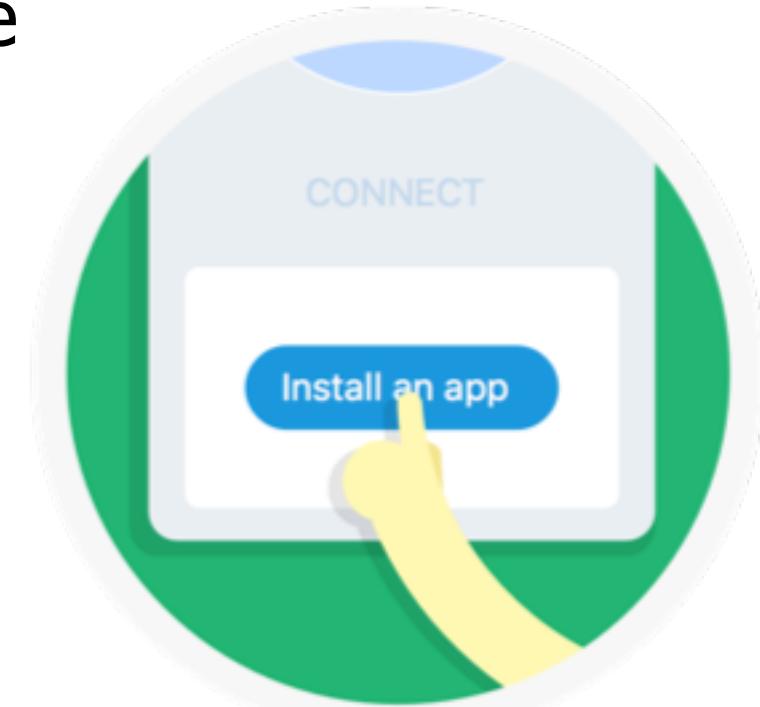
Re-engageable

Assists users in re-engaging the app through features such as push notifications



Installable

Can be installed or added to the home screen of a mobile device without the use of an app store



Linkable



Can be shared via a URL



Why PWAs Matter?



Better User Experience

- Reduced load times
- Low cost of development compared to traditional mobile apps

Increased conversion

- On average, 20% increase in conversion after switching to a PWA
- A Starbucks example:
 - Doubled monthly users and daily active users
 - Desktop web orders grown to almost equal mobile orders



PWA Challenges Opportunities with Salesforce



Serviceworker Scope

Limited by the path of the serviceworker file

Accessing Path for StaticResources

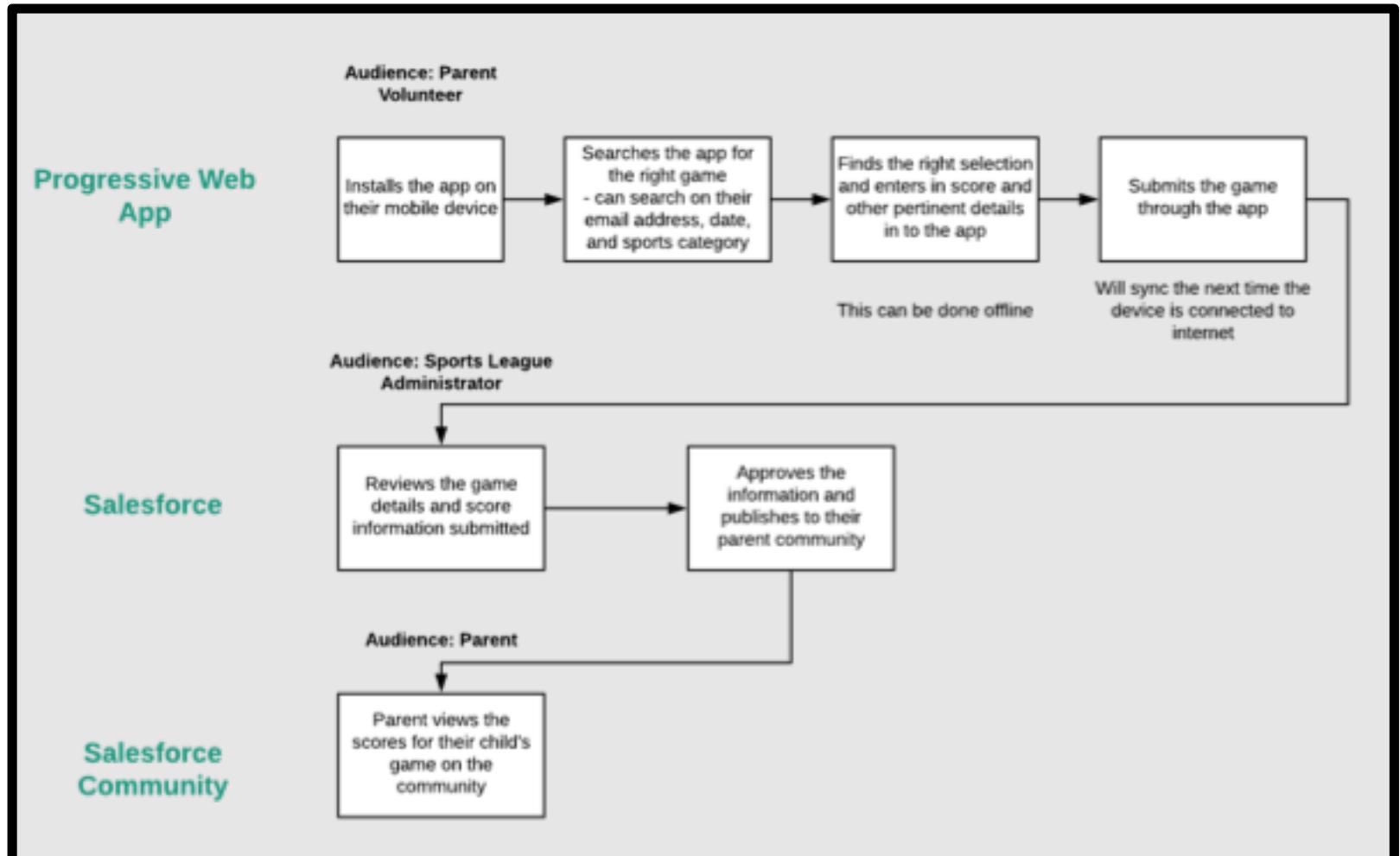
Getting StaticResource urls in Serviceworker to register for cache



Scoreboard App

The Scoreboard App is for a community sports league that relies on parent volunteers to submit scores for the games their children play in.

This example demonstrates how a PWA can work with the Force.com platform and a Salesforce Community supporting different user audiences.



Check Out These Amazing Trails:

- Developer Beginner
 - https://trailhead.salesforce.com/trails/force_com_dev_beginner
- Develop with Mobile SDK
 - https://trailhead.salesforce.com/trails/mobile_sdk_intro



Thank You!



Brett Nelson - @BrettMN – WIPDeveloper.com - Zinovo

Happy *trails* 'til next year,
y'all!

