

Progressive Web Apps && Salesforce

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What is a Progressive Web App?

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



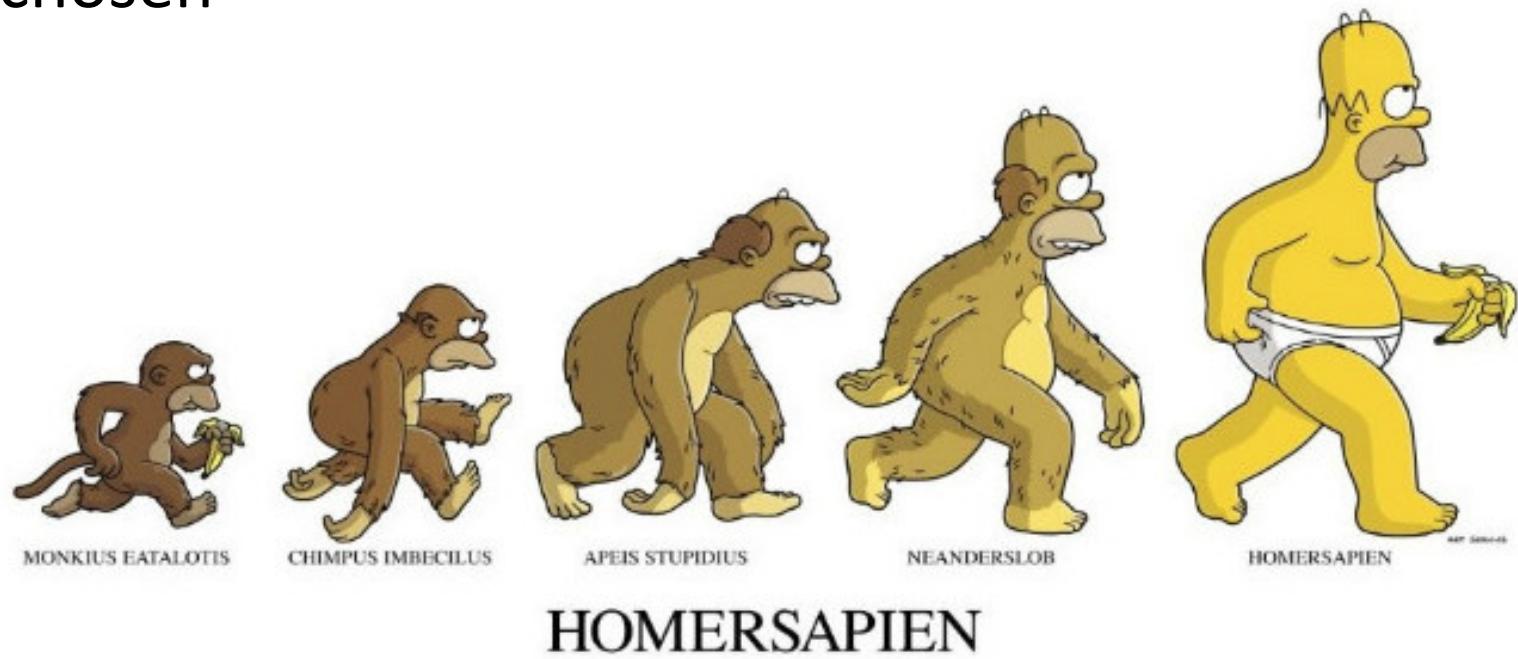
Characteristics of a PWA



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Progressive

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



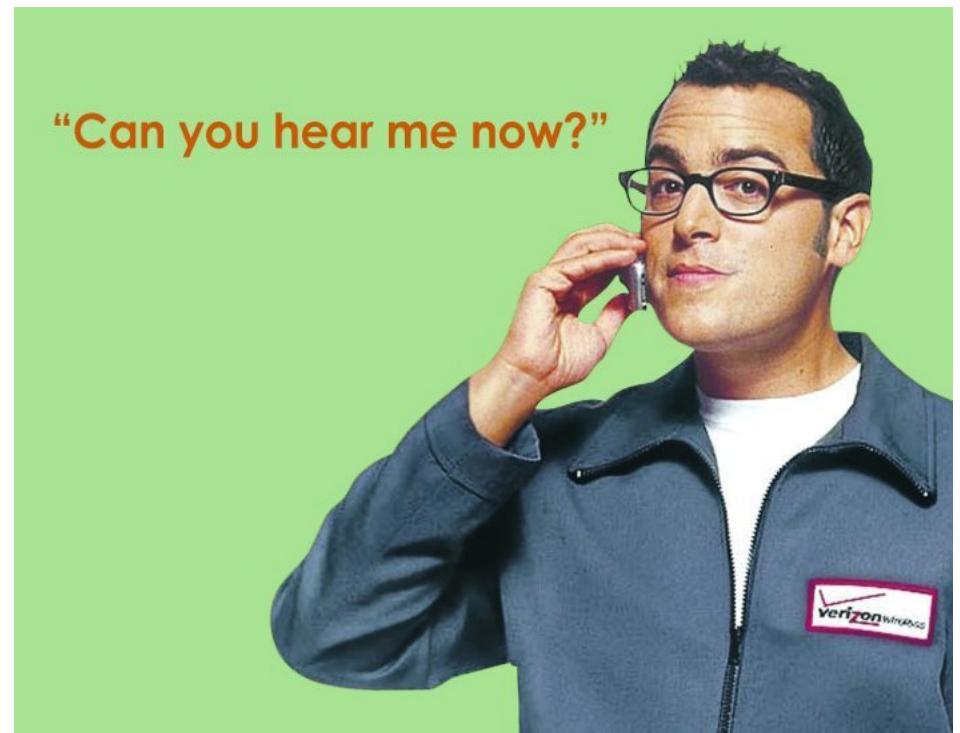
Responsive

UI adapts to display properly for any form factor



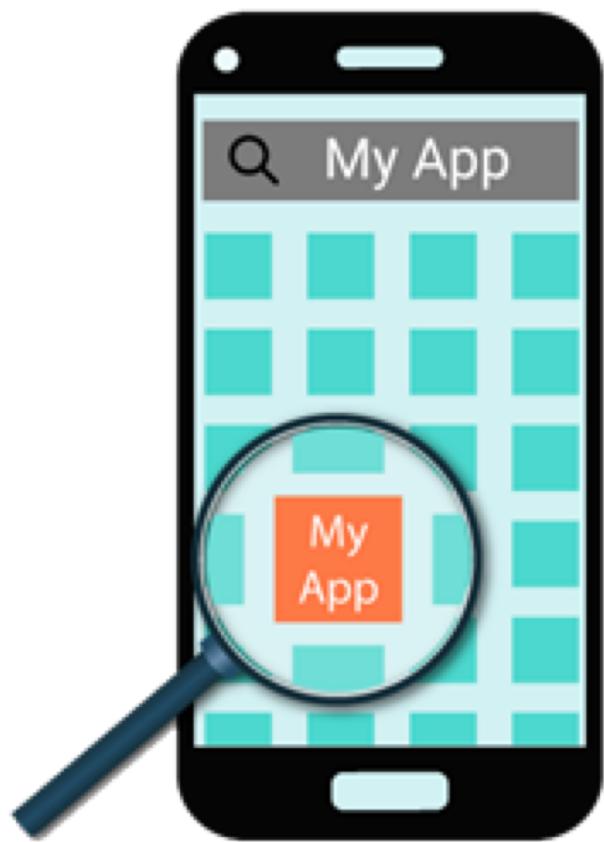
Independent of Connection Quality

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.

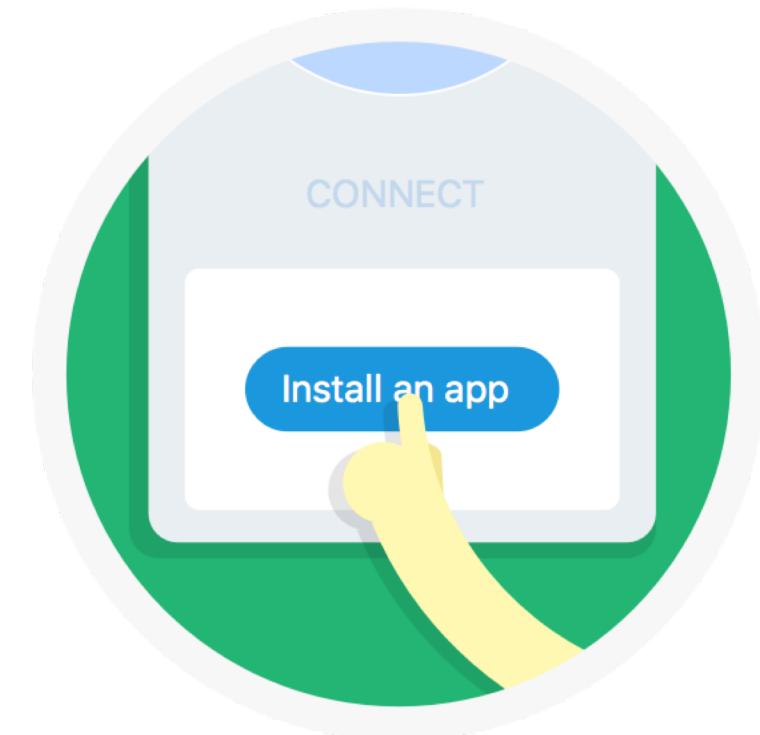
Re-engageable

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



A wide-angle photograph of a mountainous landscape at sunset. In the foreground, a person stands with their back to the viewer, looking out over a valley. The terrain is rugged with patches of snow and rocky ground. The background features a range of mountains with snow-capped peaks under a clear sky.

Why PWAs Matter?



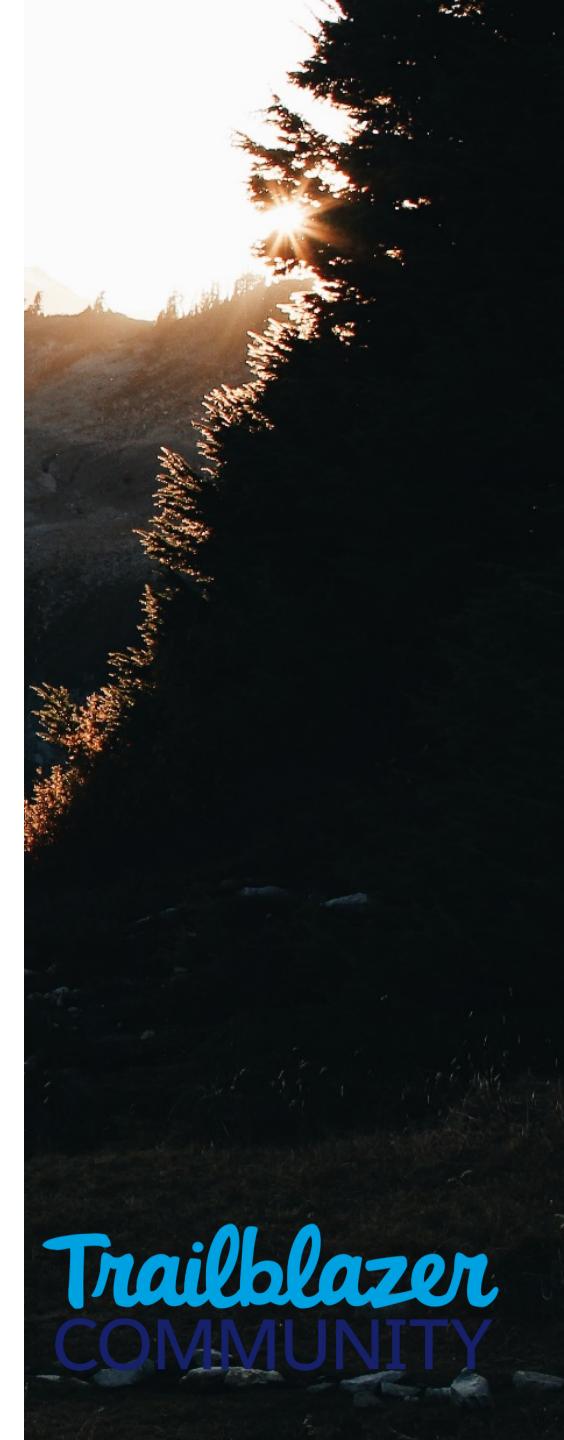
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Better User Experience

- 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



A wide-angle photograph of a dense forest on rolling hills under a dramatic sky filled with heavy, dark clouds. The foreground shows bright green foliage, while the background is obscured by thick mist.

PWA Challenges Opportunities with Salesforce



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Serviceworker Scope

Limited by the path of the serviceworker file

Accessing Path for StaticResources

Getting StaticResource urls in Serviceworker to register for cache

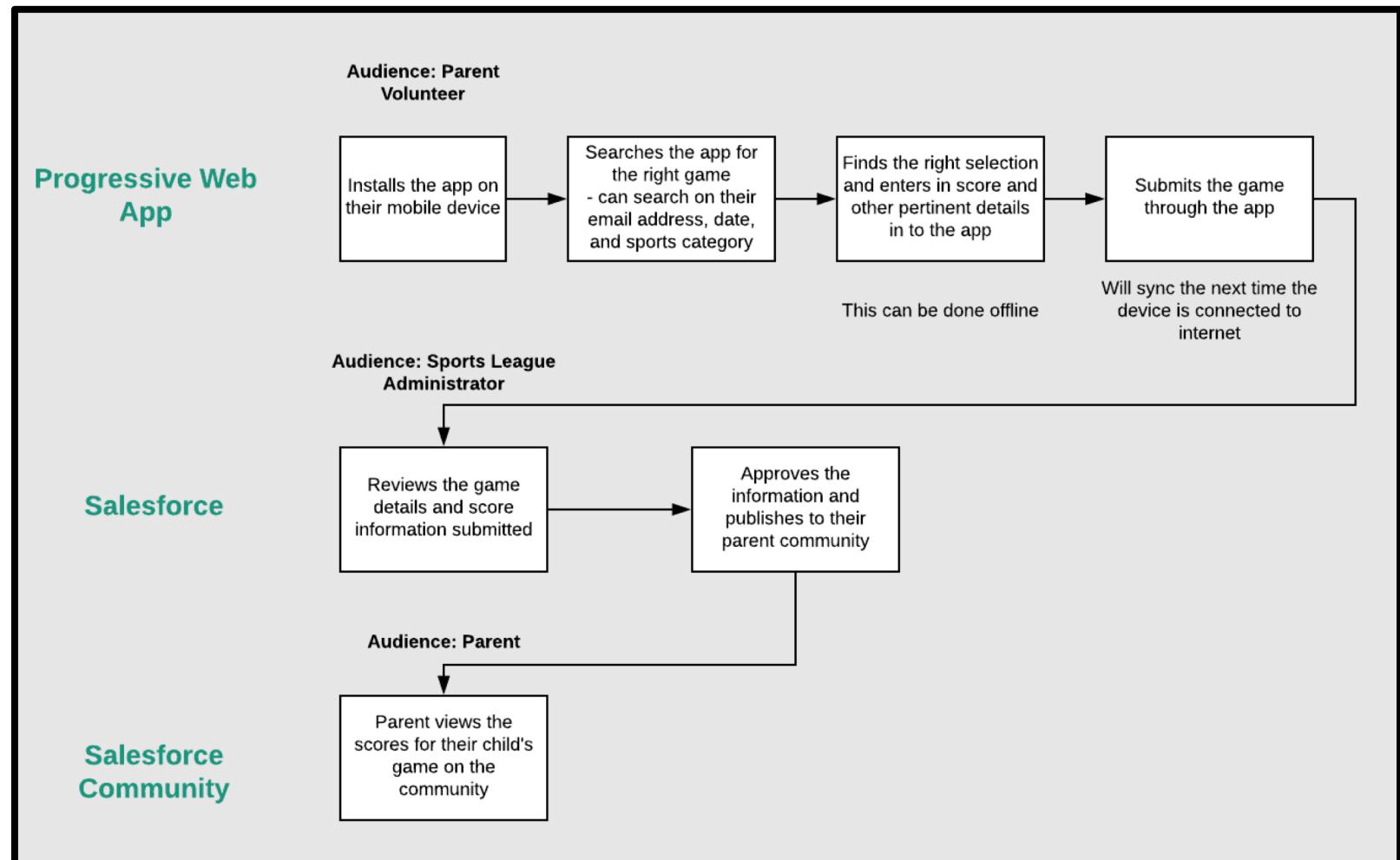


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Scoreboard App

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.



Questions?

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