

Lunch N' Learn

Progressive Web Apps && Salesforce

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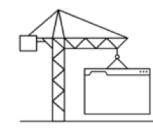
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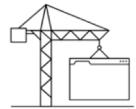


Intros

- Name
- Salesforce and Development Experience
- Why You're Here



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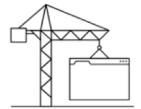


What is a Progressive Web App?

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



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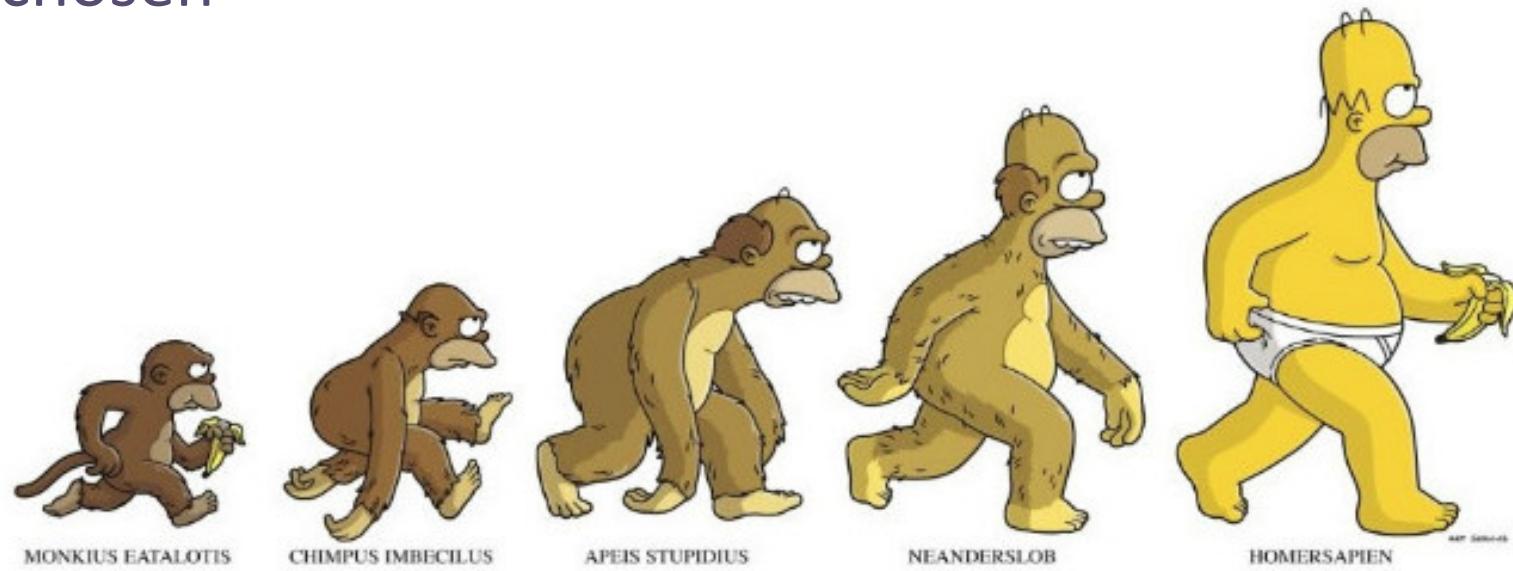
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Characteristics of a PWA



Progressive

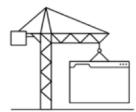
Built to work regardless of the browser the user has chosen through progressive enhancements.



HOMERSAPIEN



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Responsive

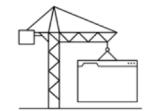
UI adapts to display properly for any form factor





Independent of Connection Quality

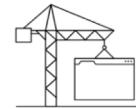
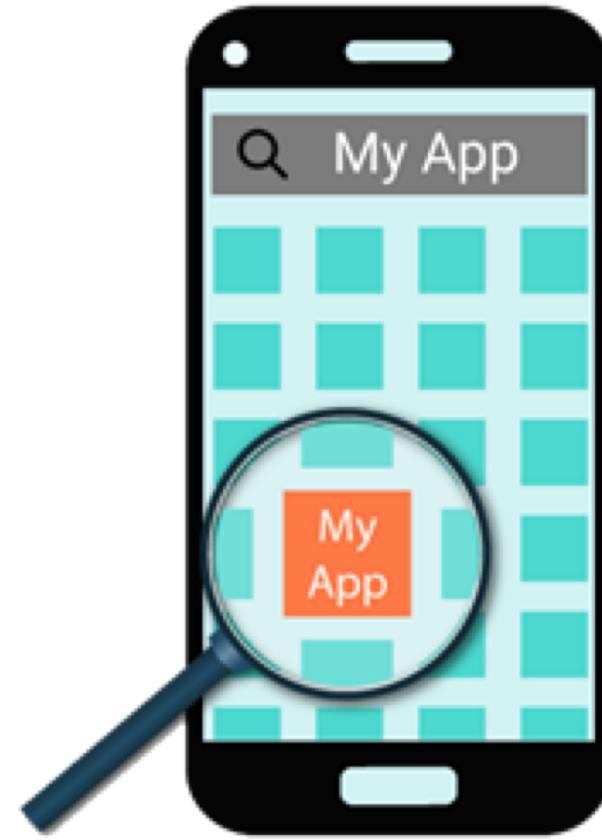
Offline/poor connection handled by serviceworker.





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



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Safe

Served over HTTPS



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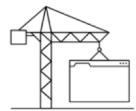
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Discoverable



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



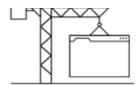


Re-engageable

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



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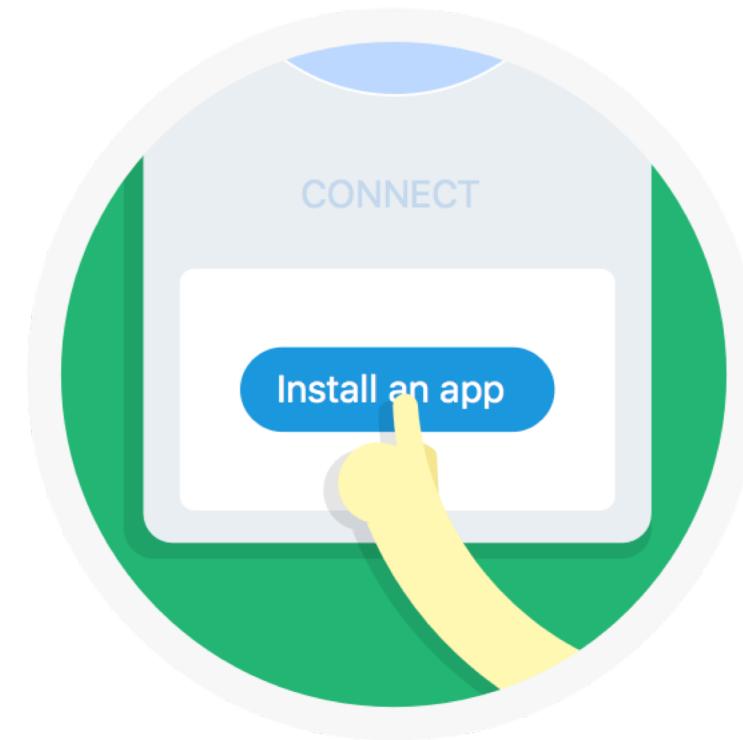


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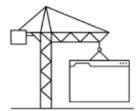


Installable

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



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Linkable



Can be shared via a URL

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Why PWAs Matter?



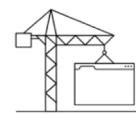
Why PWAs Matter?

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

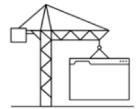


PWA
Challenges Opportunities
with Salesforce



Gotchas

- 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

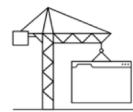
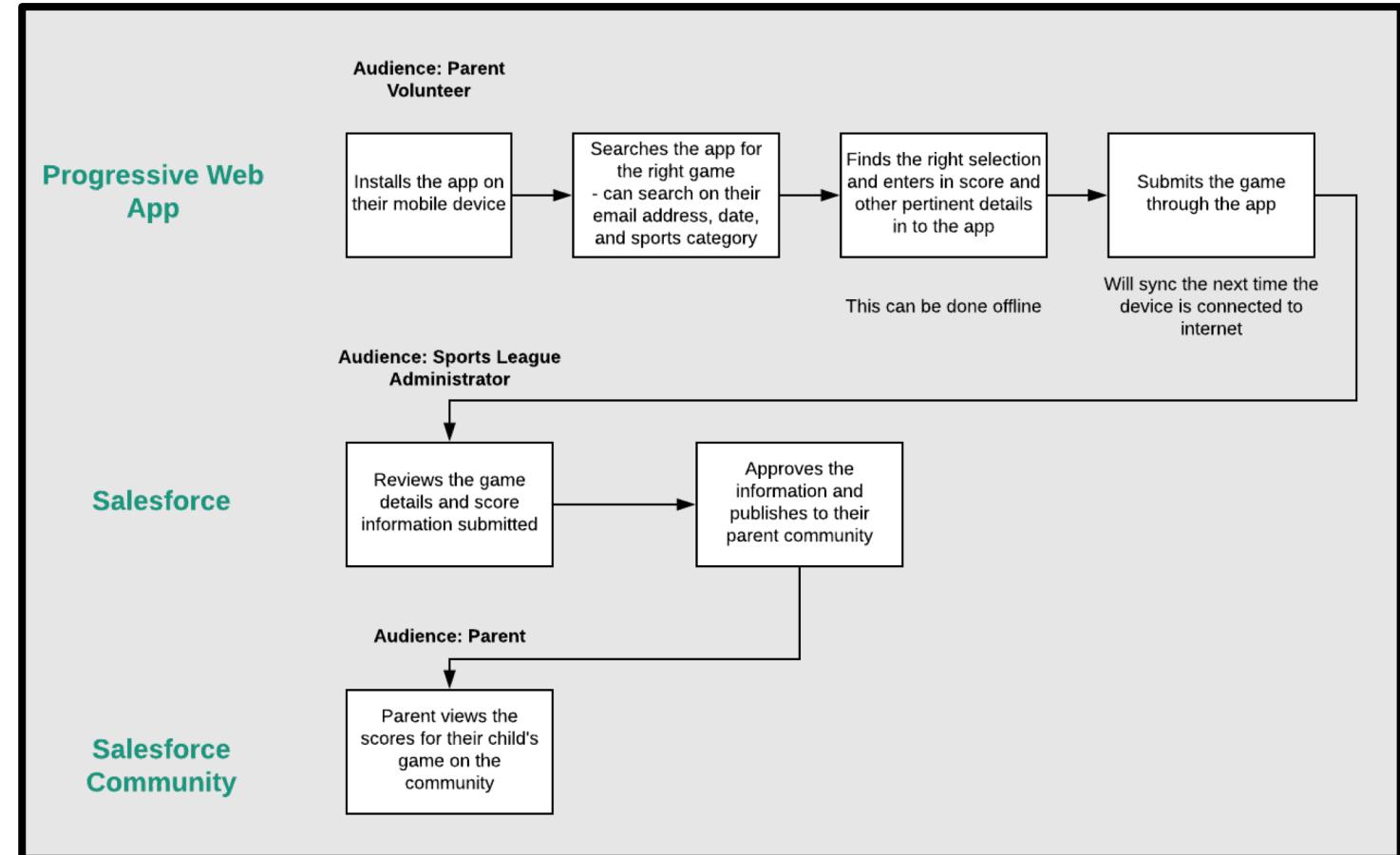
...a PWA example



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.



Thank You
and
Questions!