

TUES 11 AM - CODEY

JavaScript beyond LWC

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JULY 22-24, 2024





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AGENDA

01

Introduction

02

Why JavaScript is the Best

03

Demo #1

04

JSForce the missing link

05

Demo #2

06

Wrap-Up





INTRODUCTION

JavaScript use with Salesforce has increased with Lightning Web Components (LWC). Learn how to use JavaScript with Salesforce in different ways to unlock new skills and capabilities.

Scripting helps solve tooling or automation gaps that can impact developer efficiency or customer experience.

JAVASCRIPT + SFDC

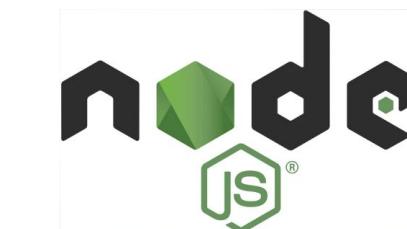
BEST COMBO

01 Scripting does not require compilation and can be ran in flexible environment such as a browser or console/server

02 Weak-typing* and native JSON serialization and cross-use are ideal complements to Salesforce

03 Open source community and packaging abilities (NPM, JSforce, ...)

04 Asynchronous processing is great.. but not with Salesforce REST APIs



Server-Side Environment



Express

JS



React

Front-End Environments



*TypeScript (ts) adds type strength



plug-ins

→|← FLXBL [Custom]

SF CLI (Demo #1)

Demo the power of scripting on top of CLI commands

Problem: given a list of objects, fetch all the data to CSV

Solution: describe each object, run dynamic bulk query





JSFORCE

via Node Package Manager (NPM)

Artifact Repository Support

Common for small and large businesses to adopt strategy to utilize open source code packages

Authentication Support

- Username & Password
- Session ID (browser)
- OAuth (Access Token, Client Credentials, JWT)

API Support

- Query
- CRUD (Objects, Events)
- Metadata
- Streaming
- ...and more

Note: other Salesforce packages (SDKs) exist for JavaScript and other languages (e.g. Python)

The screenshot shows the JSforce GitHub page. At the top, there's a navigation bar with links like 'Getting Started', 'Document', 'Download', 'Blog', 'API Reference', 'Web Console', and 'Login'. Below the header, there's a large blue section with the JSforce logo and the text 'Develop Salesforce apps with JavaScript, whether it's running on server or web browser.' It includes 'Download' and 'View on GitHub' buttons. Below this, there's a 'Setup' section with the command '\$ npm install jsforce' and an 'Example' section with sample code:

```
const jsforce = require('jsforce');
const conn = new jsforce.Connection();
await conn.login('username@domain.com', 'password')
```

<https://jsforce.github.io/>

Platform Event Subscription (Demo #2)

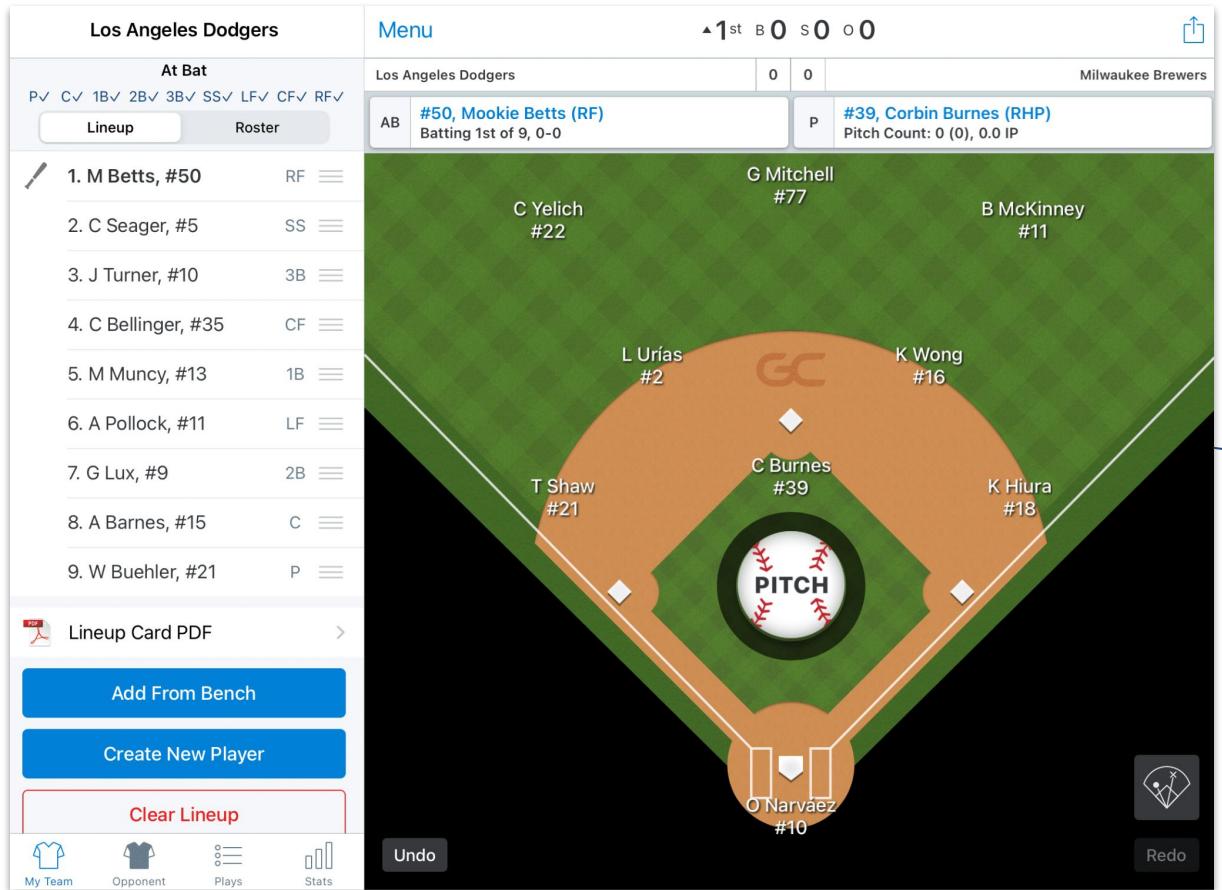
Stream events from Salesforce to the console & browser!

Problem: a baseball scoring app needs to provide real-time game updates for scoring, etc.

Solution: Build a scoreboard app that uses platform events display the score of a baseball game



Baseball Scoreboard App (Demo #2)

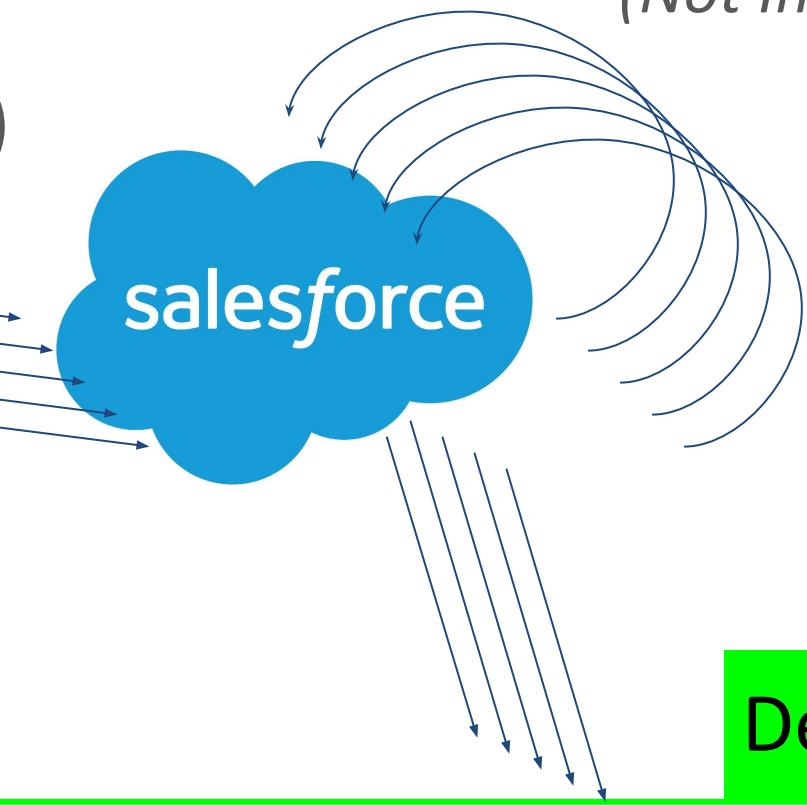


Score Keeping App
(Simulated via node.js console)

Scoreboard App

- Next
- Next-Auth
- jsforce
- React (Flowbite, Tailwind)
- TypeScript

Game Events (Plays)



Score Book Updates
(Not Implemented)

Demo #2

Salesforce JS Demo

Home	0	Away	0
Inning	0	Balls	0
Outs	0	Strikes	0

Buckeye Dreamin' 24

EVAN KORMOS



DEMO CODE

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