

APJ General Sessions

Using the OpenEdge JSDO with Telerik Kendo UI

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What is OpenEdge?

What is Kendo UI?

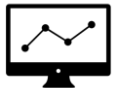
- **Modern** and **comprehensive** HTML5/JavaScript framework
- Fast, light, and complete
- 70+ jQuery-based UI widgets in one toolset



JavaScript framework-agnostic; no lock-in



AngularJS integration out-of-the-box



Data visualization via SVG or HTML5 canvas



Mobile and adaptive widgets for small screens



Touch support out-of-the-box



Kendo UI: Simple Widgets (i.e. **DropDownList**)



Cap Color

Black ▼

Black


Orange

Grey

Customize

Kendo UI: Complex Widgets (i.e. **Scheduler**)

TeamSchedule



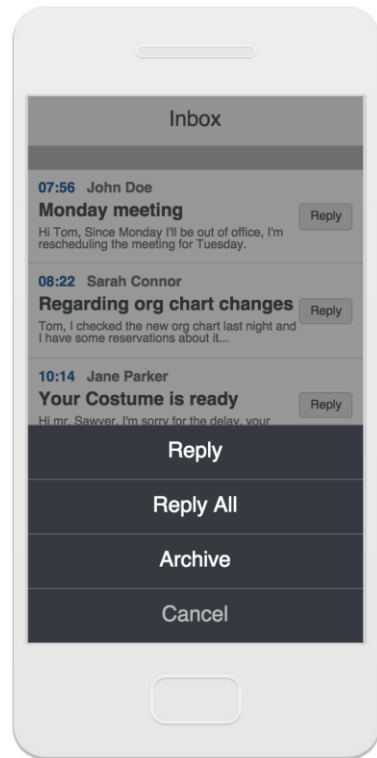
Today ◀ ▶ 📅 Monday, June 10, 2013 - Friday, J... Day **Work Week** Week Month Agenda Timeline

	Mon 6/10	Tue 6/11	Wed 6/12	Thu 6/13	Fri 6/14
all day					Alex's Birthday
7:00 AM	Take the dog to the vet				
8:00 AM					
9:00 AM					
10:00 AM					
11:00 AM		Call Charlie about the			

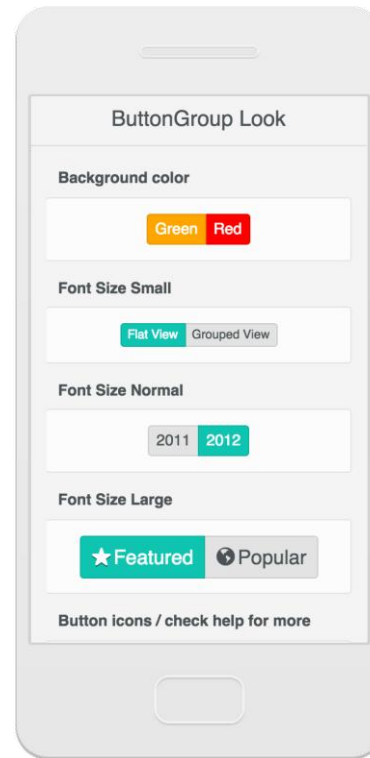
Kendo UI: Essential Widgets (i.e. **Grid**)

	First Name	Last Name	Country	City	Title
▲	Nancy	Davolio	USA	Seattle	Sales Representative
	OrderID	Ship Country	Ship Address		Ship Name
	10258	Austria	Kirchgasse 6		Ernst Handel
	10270	Finland	Torikatu 38		Wartian Herkku
	10275	Italy	Via Ludovico il Moro 22		Magazzini Alimentari Riuniti
	10285	Germany	Taucherstraße 10		QUICK-Stop
	10292	Brazil	Av. Inês de Castro, 414		Tradição Hipermercados
	10293	Mexico	Avda. Azteca 123		Tortuga Restaurante
	10304	Mexico	Avda. Azteca 123		Tortuga Restaurante
	10306	Spain	Gran Vía, 1		Romero y tomillo
	10311	France	67, rue des Cinquante Otages		Du monde entier
	10314	USA	2817 Milton Dr.		Rattlesnake Canyon Grocery
<div><div><div>⏮</div><div>⏪</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>...</div><div>⏩</div><div>⏭</div></div><div>1 - 10 of 123 items</div></div>					
▶	Andrew	Fuller	USA	Tacoma	Vice President, Sales
▶	Janet	Leverling	USA	Kirkland	Sales Representative
▶	Margaret	Peacock	USA	Redmond	Sales Representative
▶	Steven	Buchanan	UK	London	Sales Manager

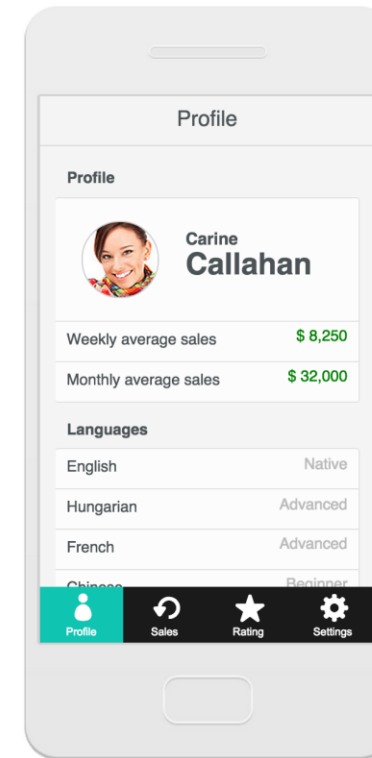
Kendo UI: Mobile Widgets



ActionSheet

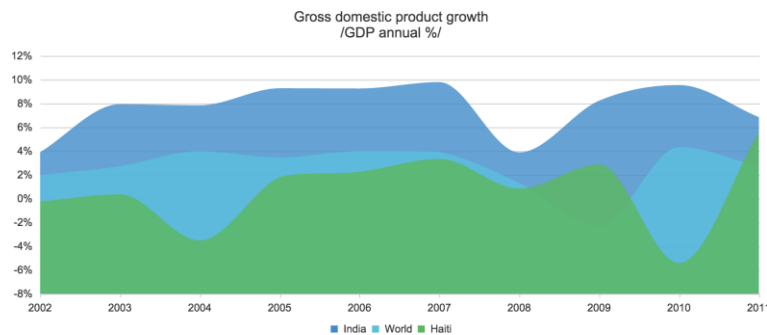


ButtonGroup

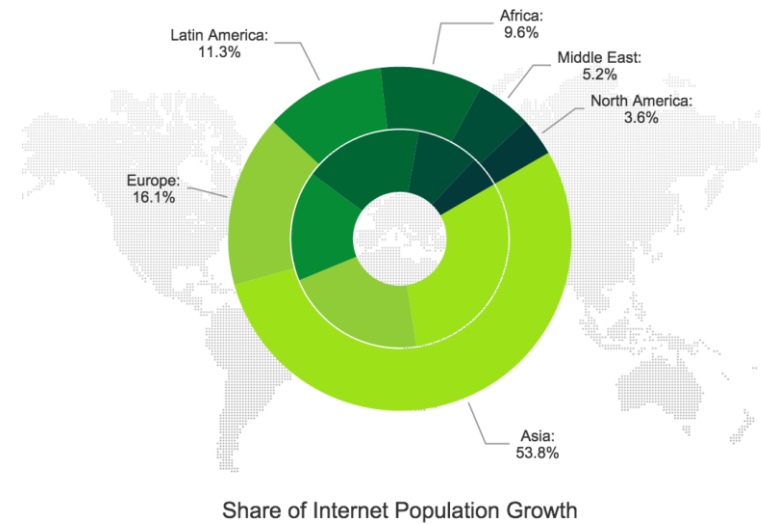


TabStrip

Kendo UI: Chart Widgets



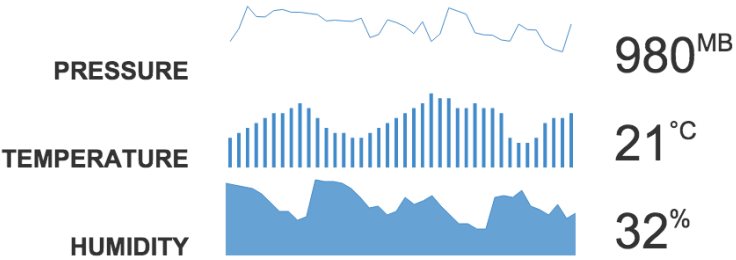
Area



Donut

Kendo UI: Chart Widgets

CLIMATE CONTROL HISTORY



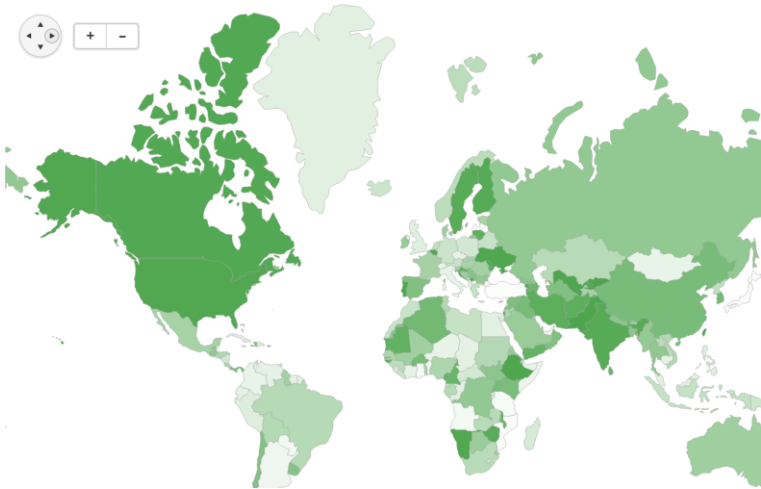
TEMPERATURE CONTROL



CONDITIONER WORKING TIME

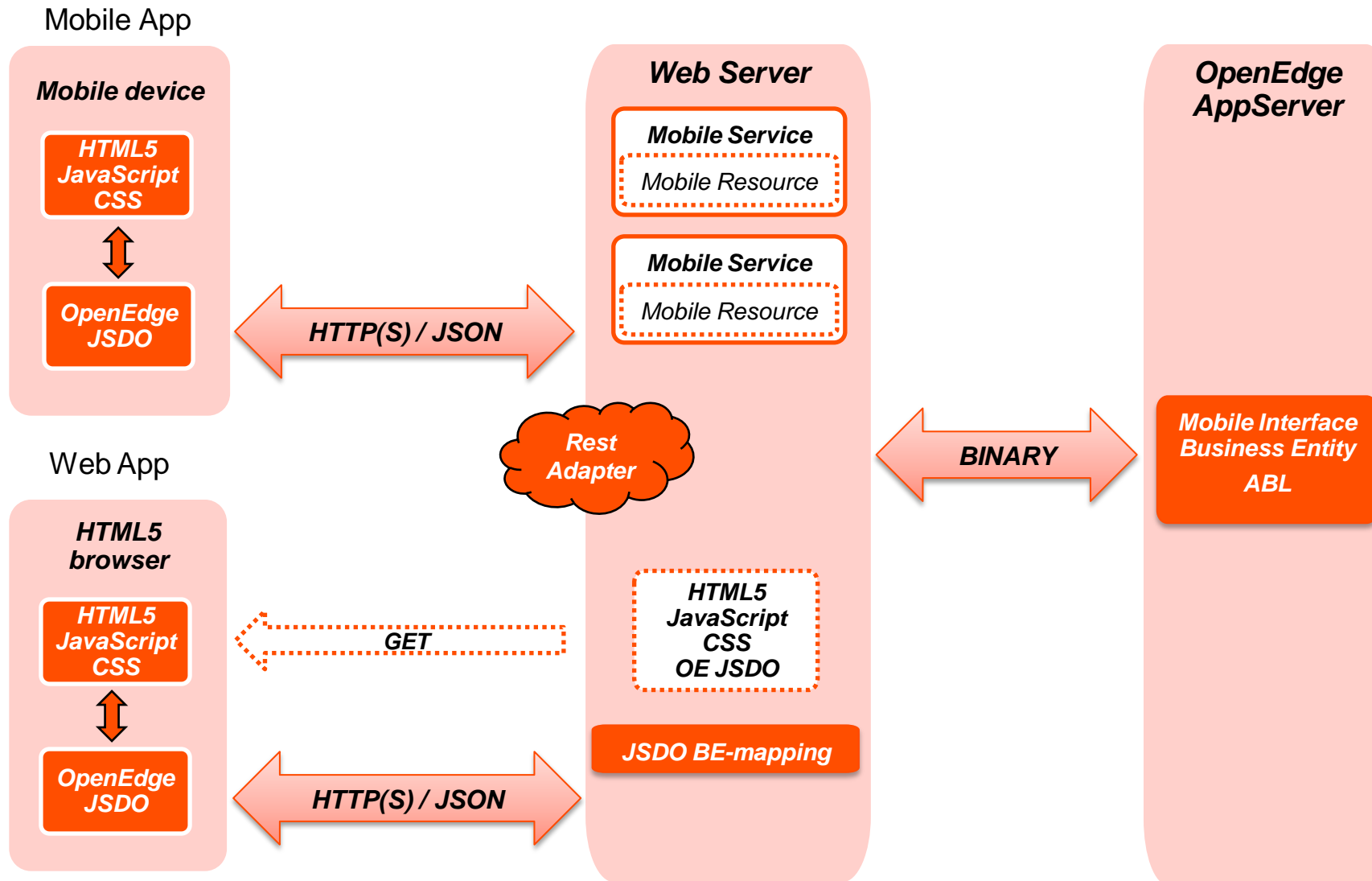


Sparkline



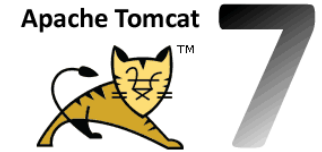
Map

Architecture – Classic OpenEdge AppServer

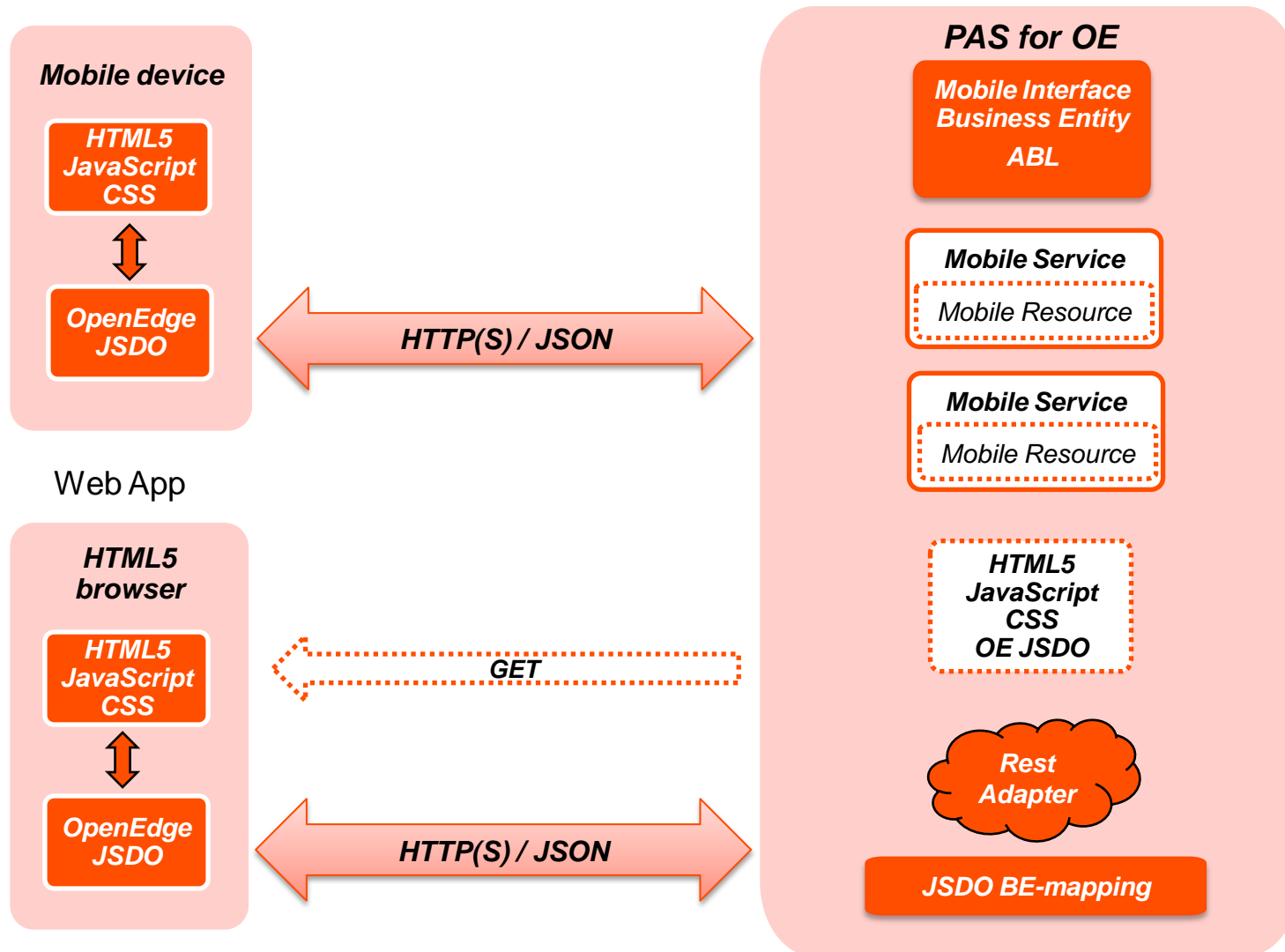


Pacific Application Server for OpenEdge

- Enterprise class web/application server that integrates multiple functions
 - Web Server (Tomcat), OpenEdge AppServer, OpenEdge AppServer adapters
- Highly scalable
 - Multi-Session agent
 - Tomcat with industry standard load balancing
- Spring Security framework built-in
- No separate AppServers required for different state-models
- Little to no ABL code changes when migrating



Architecture – Pacific Application Server for OE



- Less overhead
- Reduced number of OS processes
- Better overall system performance
- One place to deploy

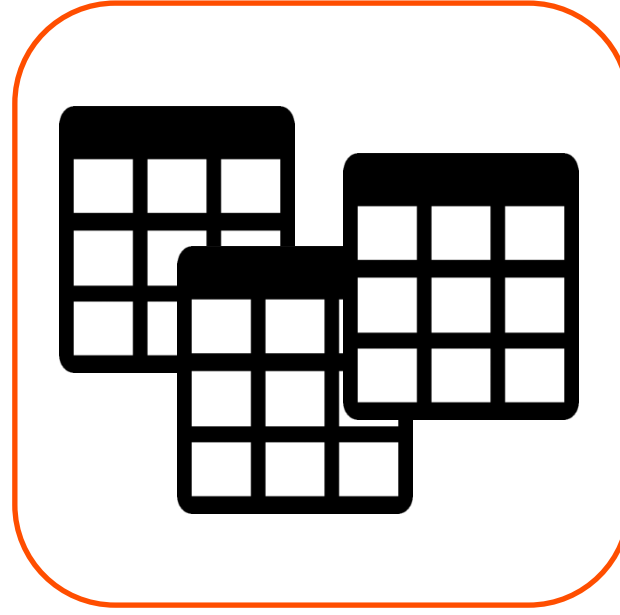
JavaScript Data Object (JSDO)

- Client side object provides access to mobile resources exposed as a web service
 - Resources are ABL business logic and OpenEdge data
- Encapsulates functionality needed to manipulate client side data
- Communicates with an AppServer sending and receiving data
 - Can execute CRUD operations as defined in the Business Entity
 - Can invoke methods on an AppServer
- JSDO properties and methods
 - A JavaScript program or a JavaScript framework uses the JSDO methods to make requests of the JSDO

Why use the JSDO?



- ✓ Multi-user change tracking
- ✓ Session management
- ✓ Invoke methods on AS

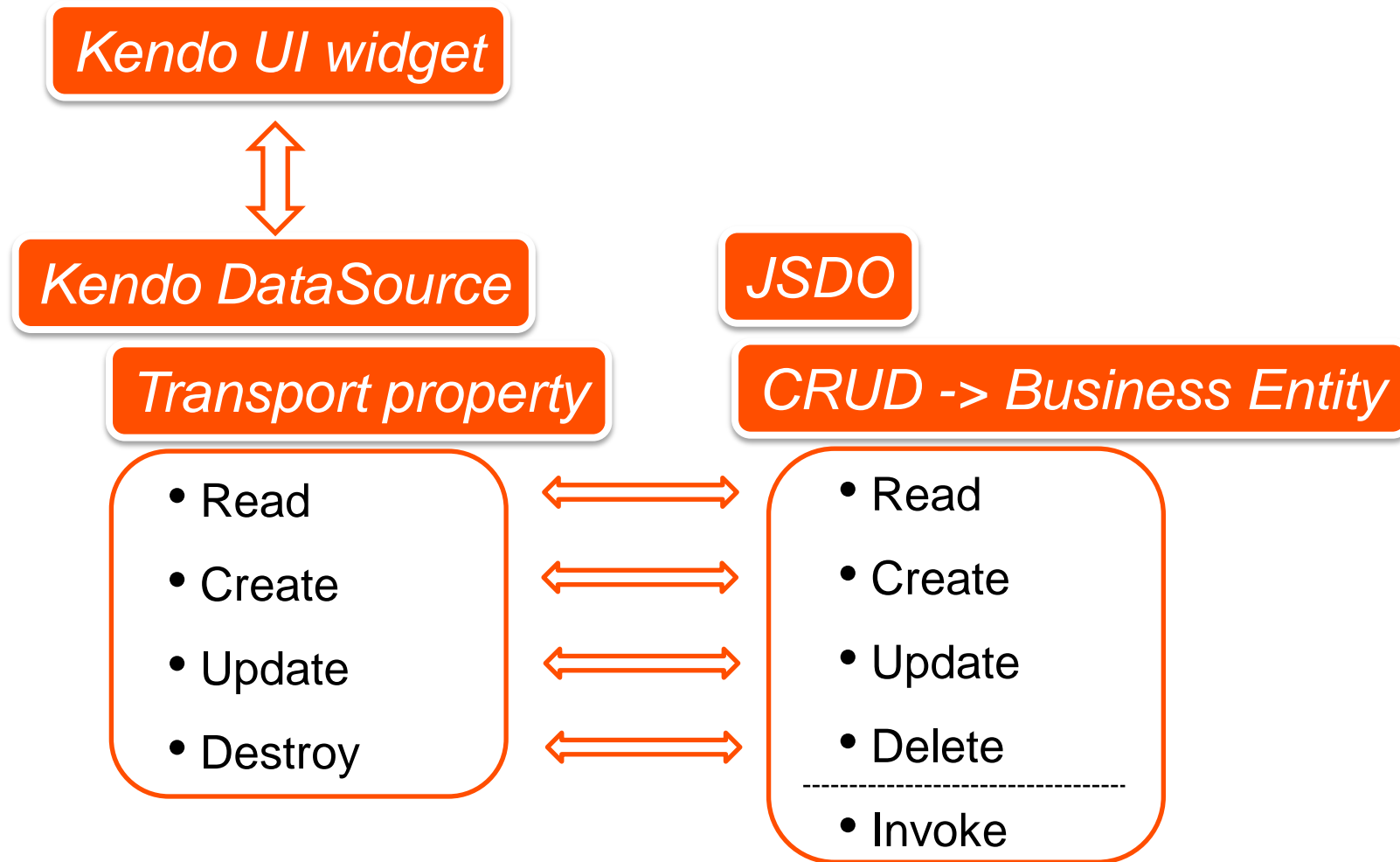


- ✓ Multi-table support
- ✓ Multiple CRUD actions
- ✓ Access to data definitions

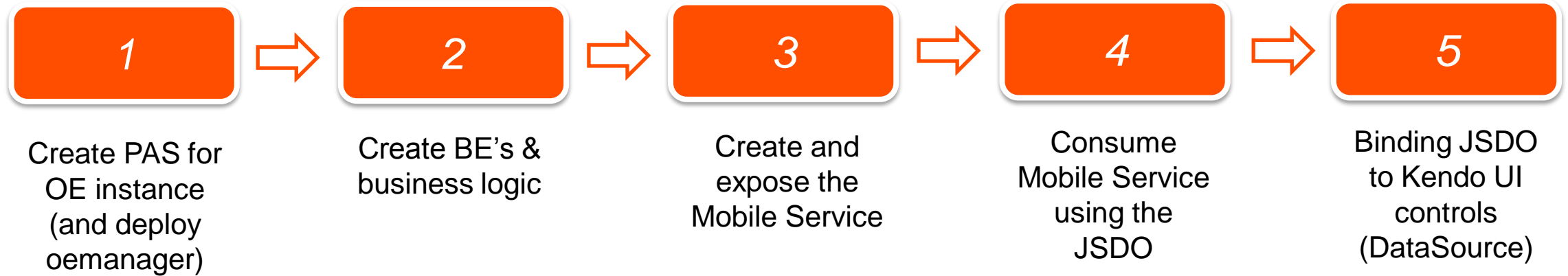


- ✓ Local storage
- ✓ Any JavaScript framework
- ✓ No knowledge of URI's

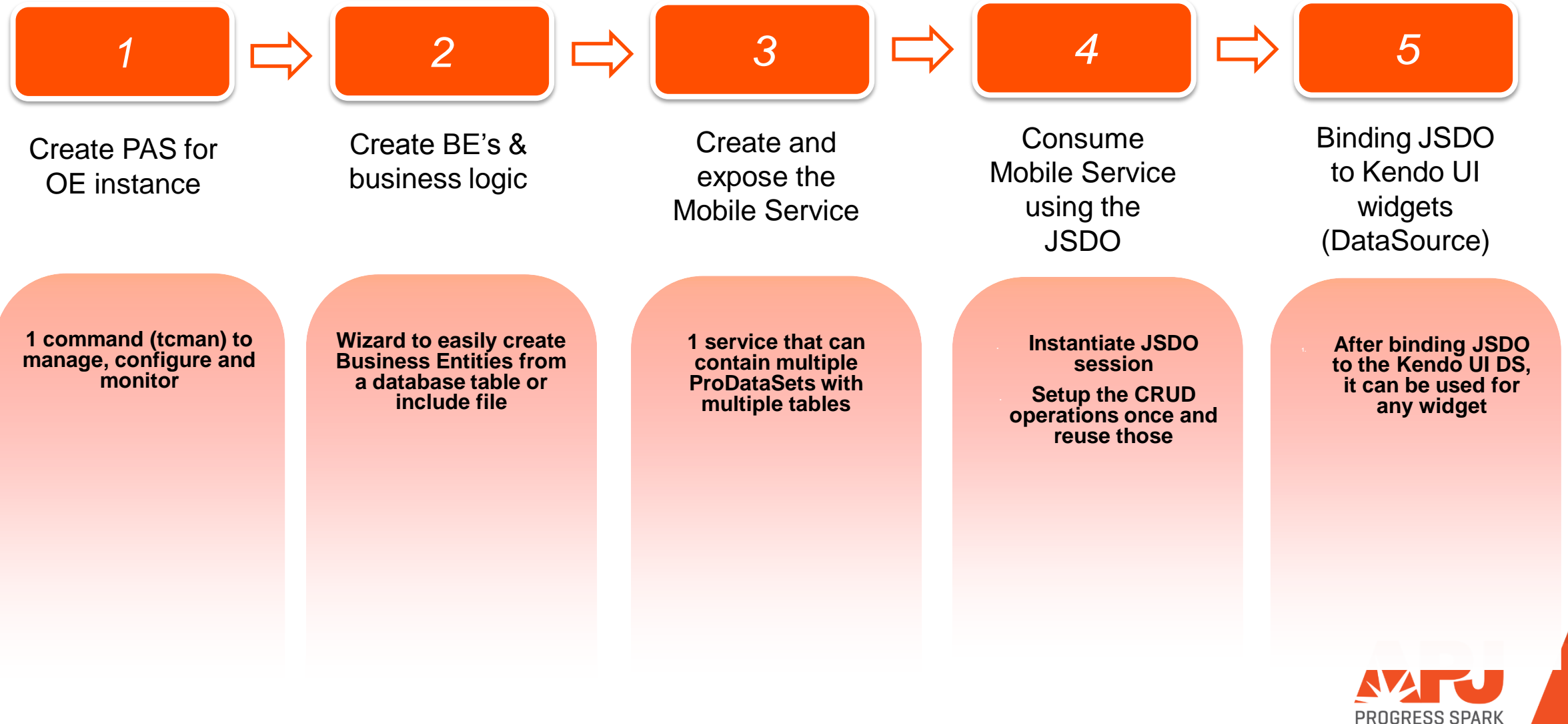
Kendo UI DataSource and the JSDO



Let's Build!



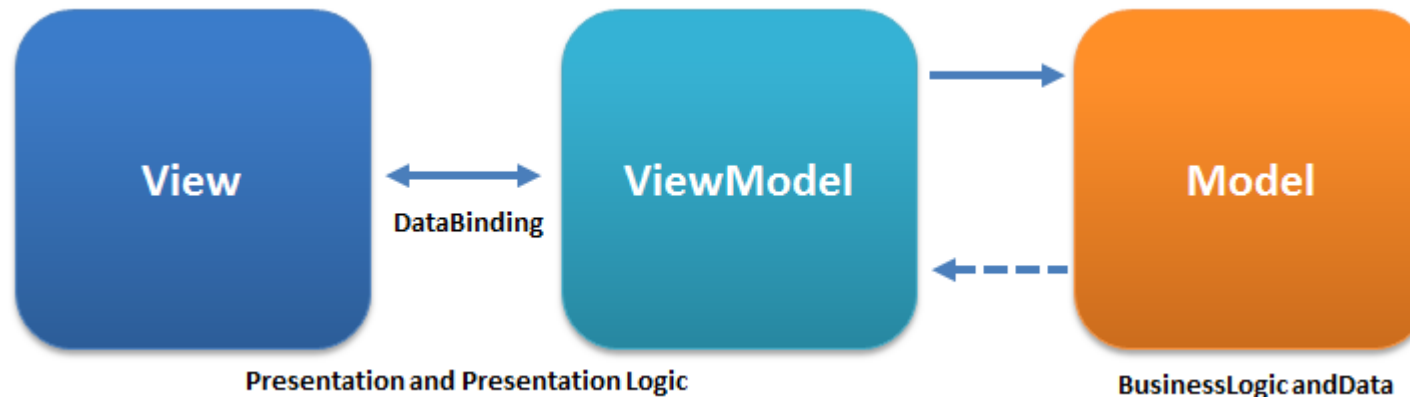
Recap...



MVVM – separating logic from UI

Model View ViewModel (MVVM) is a design pattern which helps developers separate the Model (the data) from the View (the UI).

The View-Model part of MVVM is responsible for exposing the data objects from the Model in such a way that those objects are easily consumed in the View.







PROGRESS