Data Services on the Client

John Papa



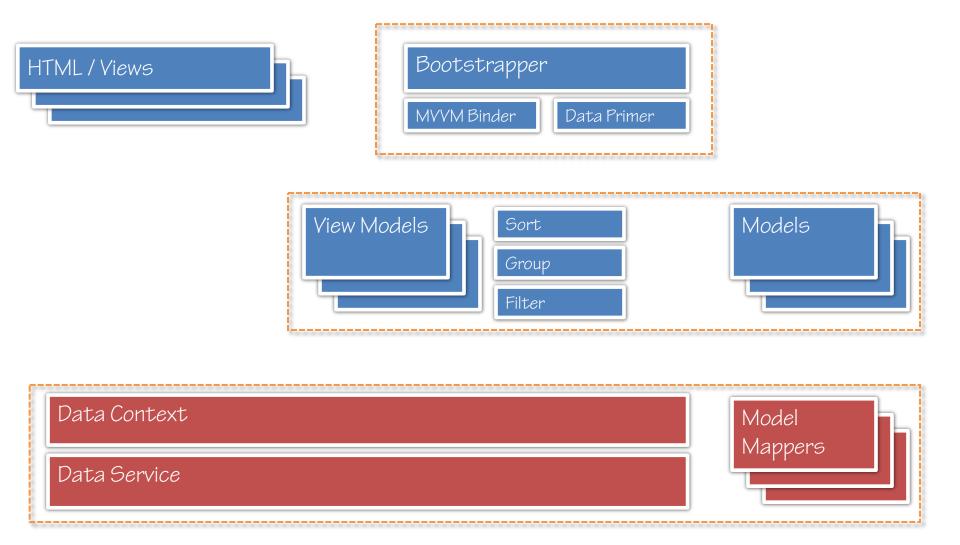
The Value of Client Data Patterns

Data Services

Data Context / Repository

Model objects

JavaScript Modularity Recap



- The Value of Client Data Patterns
 - What problem are we solving?
- Data Services

Data Context / Repository

Model objects

jQuery AJAX Calls

```
$('#getSessionsButton').click(function () {
    var url = '/api/sessionbriefs';
    $.ajax({
        url: url,
        dataType: 'json',
        success: function(data) {
            // Use data to create observables Models
                         Scattered
    });
                       Throughout the
});
                          SPA?
```

A Better Way

datacontext.sessions.getData({data: sessions});

Code Re-Use (in many ViewModels)

Easier to read and maintain

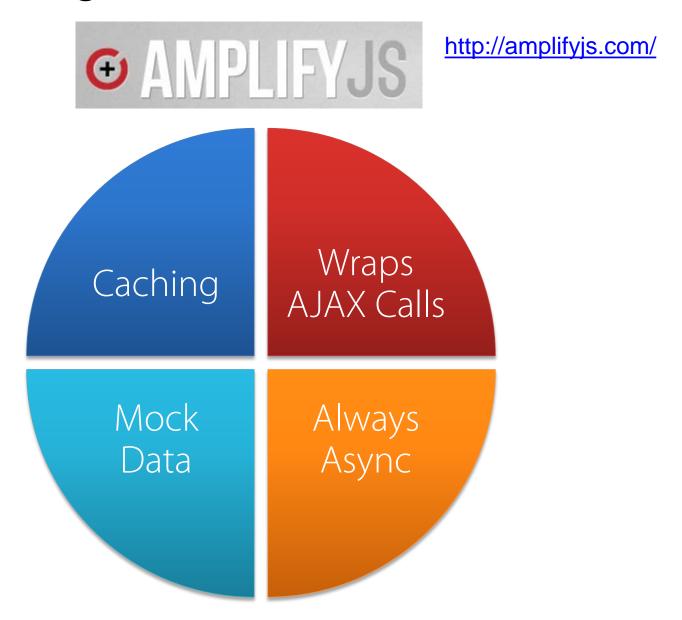
Single Responsibility
Principle (SRP)

The Value of Client Data Patterns

- Data Services
 - Simplify
 - Code-Reuse
- Data Context / Repository

Model objects

Adding Features to a DataService

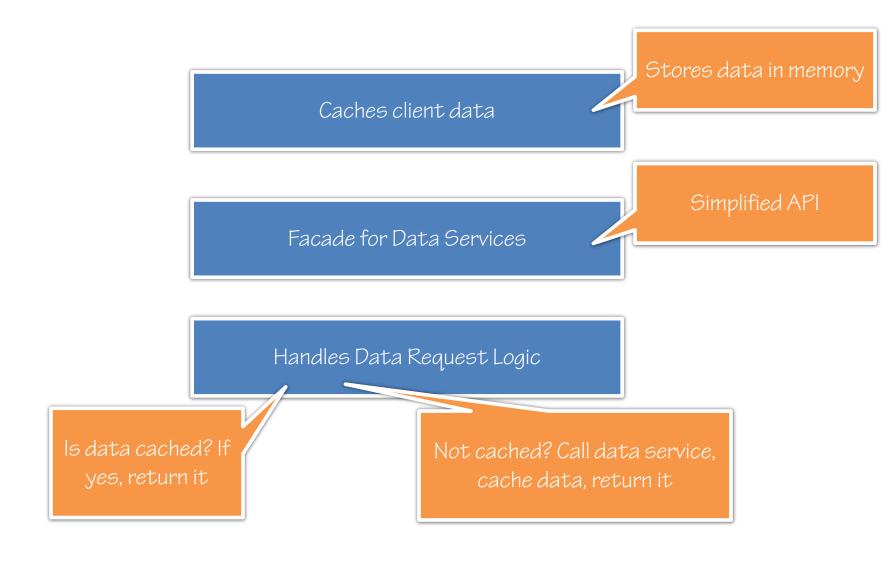


The Value of Client Data Patterns

Data Services

- Data Context / Repository
 - Simplify
 - Cache Models
 - Navigate Models
- Model objects

Role of the Data Context



The Value of Client Data Patterns

Data Services

Data Context / Repository

- Model objects
 - Objects
 - Mappers
 - Navigation

View Model

JOHN PAPA

favorites sessions speakers

SAT MAY 18

SUN MAY 19

Sessions

Session

4 Speaker **Q** filter by room, speaker, tag, title, or track

SHOWING 7 SESSIONS



Sat 09:00 am at Pelham Bay Keynote

SCOTT GUTHRIE KEYNOTE

INTERMEDIATE .NET

ADVANCED

JAVASCRIPT

Refresh





Sat 10:10 am at Venice Building HTML/JavaScript Apps with Knockout and MVVM

JOHN PAPAJAVASCRIPT, KNOCKOUT, MVVM, HTML5, WEB





Sat 10:10 am at Paris A JavaScript Toolbox

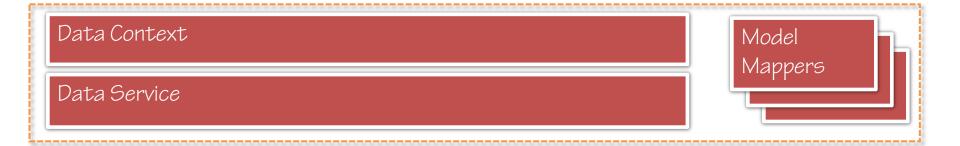
WARD BELL
JAVASCRIPT, WEB

INTERMEDIATE JAVASCRIPT



Recap of JavaScript Data Modules and Patterns





View Models Need Data



datacontext.sessions.getData({data: sessions});

Summary

Data Services

- AJAX
- HTTP Caching
- Mock Data

Data Context / Repository

- Caches models
- Figures out how to get the data
 - local or over HTTP

Models

- Mappers
- Object Navigation / Relations

