Building Apps with AngularJS and Breeze Part 2

JavaScript Repository Patterns

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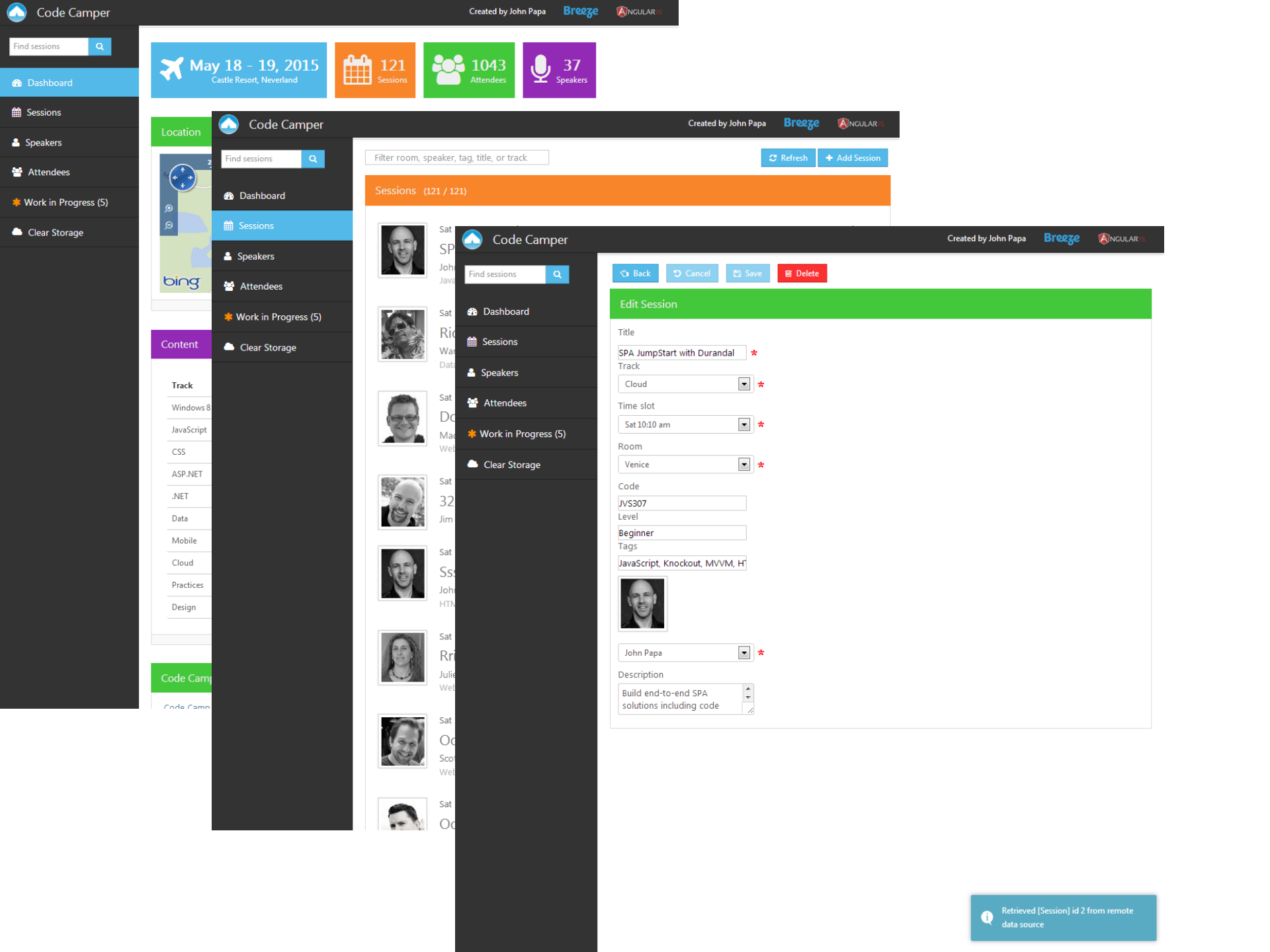
pluralsight
hardcore developer training


Code Camper
Created by John Papa
Breeze
ANGULARJS
Find sessions
Dashboard
Sessions
Speakers
Attendees
Work in Progress (5)
Clear Storage
May 18 - 19, 2015
Castle Resort, Neverland
121
Sessions
1043
Attendees
37
Speakers
Location
bing
Content
Track
Windows 8
JavaScript
CSS
ASP.NET
.NET
Data
Mobile
Cloud
Practices
Design
Code Camper
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Breeze
ANGULARJS
Find sessions
Dashboard
Sessions
Speakers
Attendees
Work in Progress (5)
Clear Storage
Filter room, speaker, tag, title, or track
Refresh
Add Session
Sessions (121 / 121)
Code Camper
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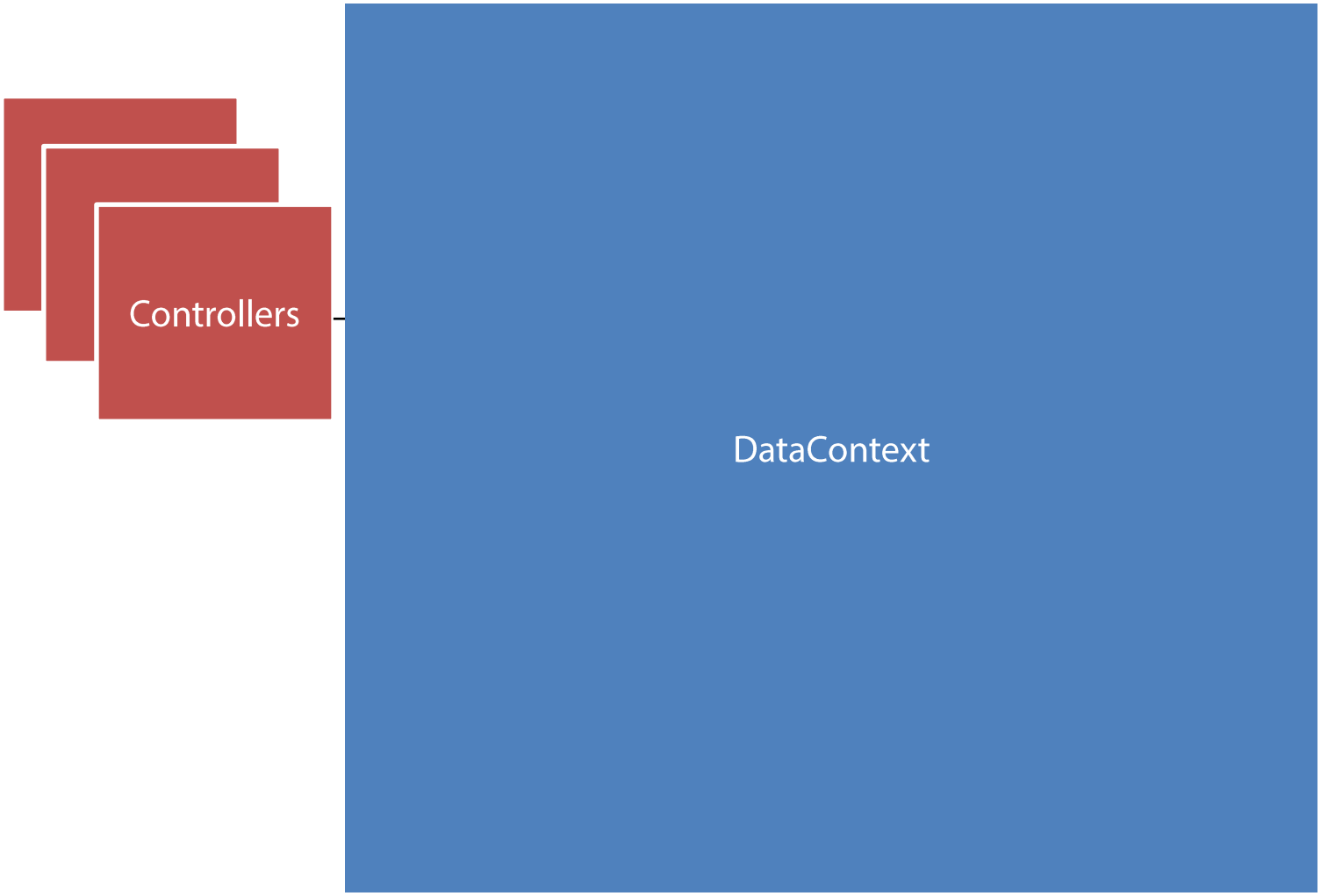
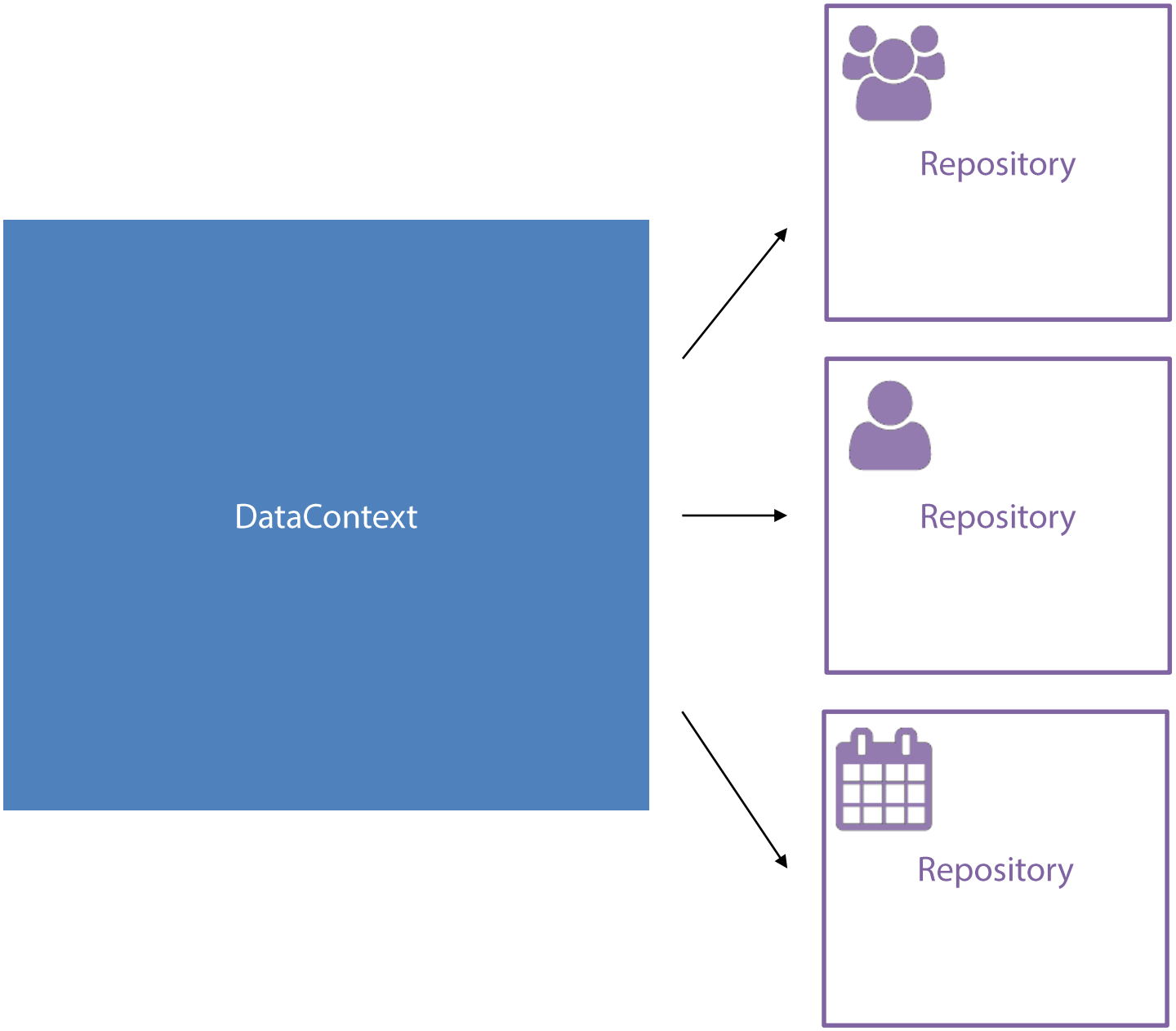
ANGULARJS
Find sessions
Dashboard
Sessions
Speakers
Attendees
Work in Progress (5)
Clear Storage
Back
Cancel
Save
Delete
Edit Session
Title
SPA JumpStart with Durandal
Track
Cloud
Time slot
Sat 10:10 am
Room
Venice
Code
JVS307
Level
Beginner
Tags
JavaScript, Knockout, MVVM, H
John Papa
Description
Build end-to-end SPA solutions including code
Retrieved [Session] id 2 from remote data source

DataContext Will Grow




SAFETY
FIRST


DataContext
Repository
Repository
Repository

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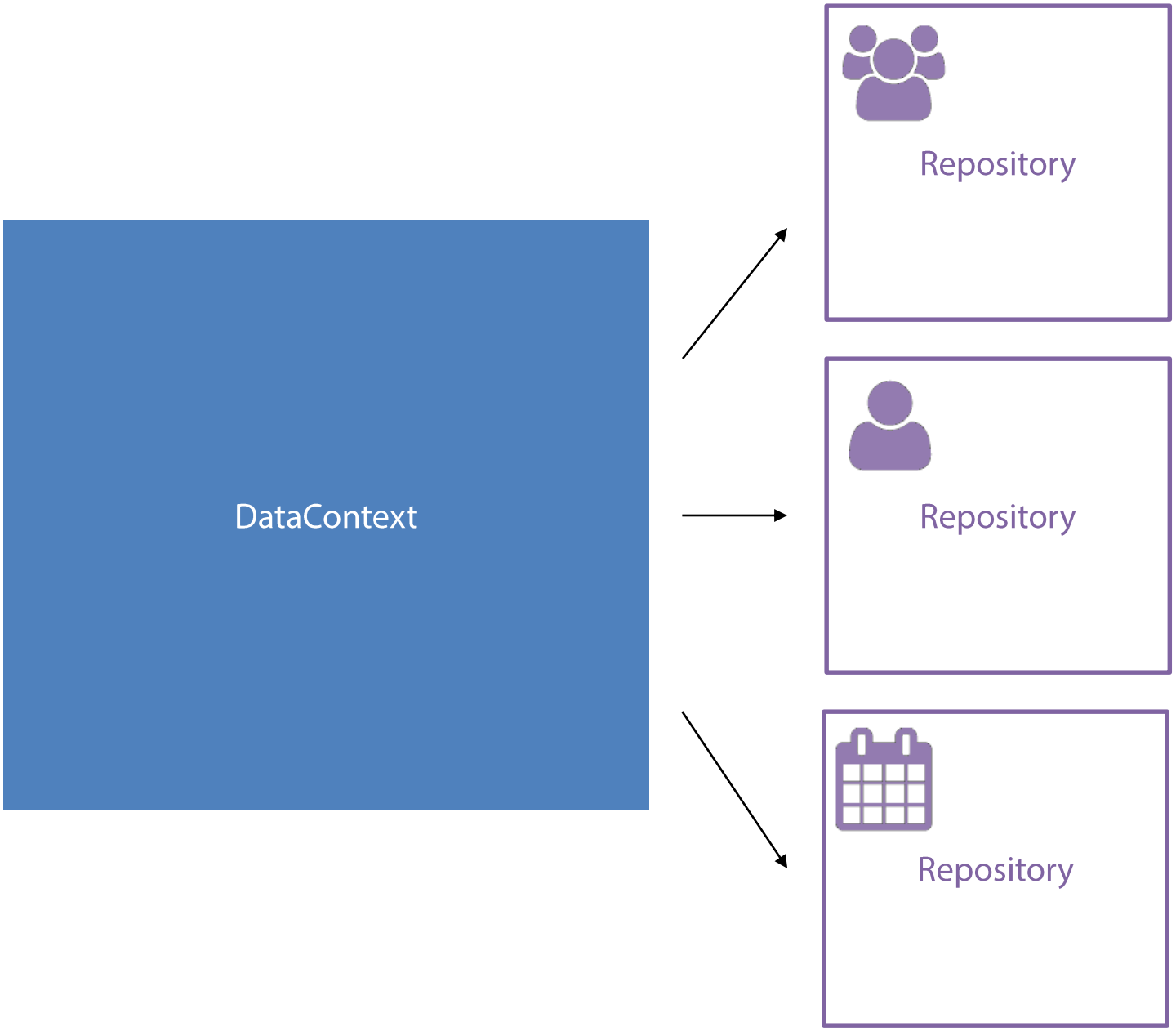

DataContext
Repository
Repository
Repository

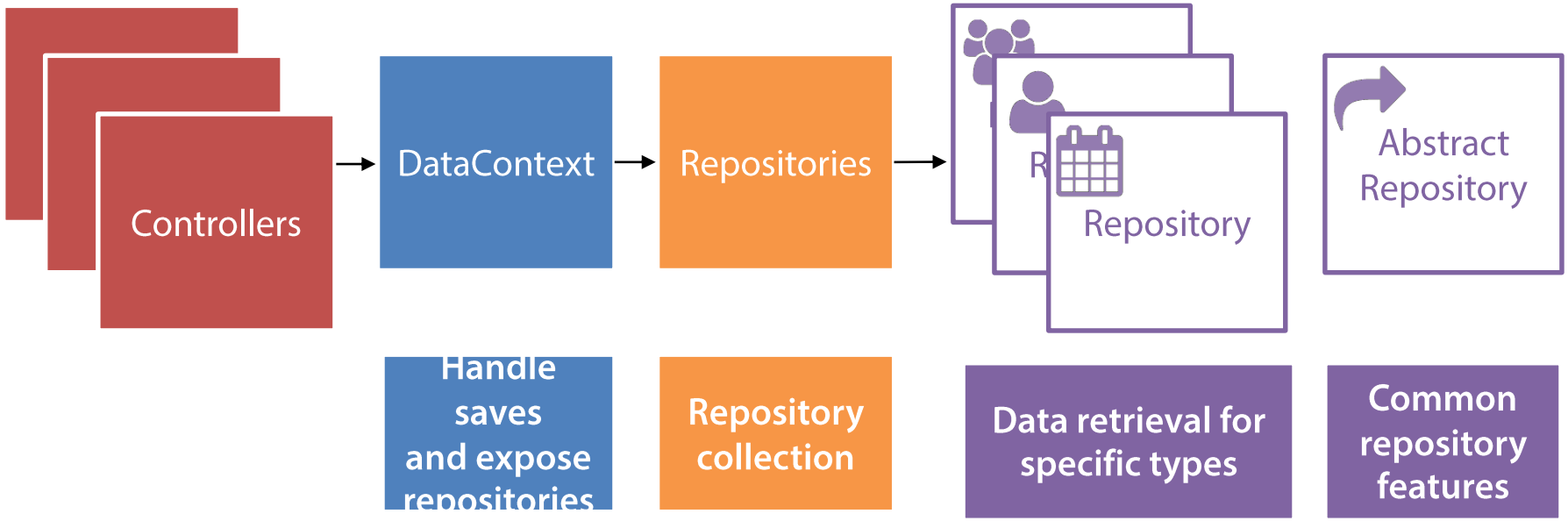
Why Choose a Repository Pattern?

DataContext is Growing Difficult to Maintain

Deciding When to Take Action


1
Reduce and re-use code
2
Easily find code
What are your GOALS?

Evolving the DataContext



DataContext

Slicing

Splitting the Repositories

Lookup

- getAll
- setLookups

Abstract

- getAllLocal
- getInlineCount
- queryFailed

Speaker

- getAllLocal
- getPartials
- getTopLocal

DataContext

- prime
- getAttendeeCount
- getAttendees
- getFilteredCount
- getSessionCount
- getSessionPartials
- getSpeakersLocal
- getSpeakerPartials
- getSpeakersTopLocal
- getTrackCounts
- getAll
- setLookups

Attendee

- getCount
- getAll
- getFilteredCount

Session

- getCount
- getPartials
- getTrackCounts

DataContext

No repository needed when its small

Time for a Repository Pattern

Before

DataContext

- prime
- getAttendeeCount
- getAttendees
- getFilteredCount
- getSessionCount
- getSessionPartials
- getSpeakersLocal
- getSpeakerPartials
- getSpeakersTopLocal
- getTrackCounts
- getAll
- setLookups

After

Lookup

- getAll
- setLookups

Abstract

- getAllLocal
- getInlineCount
- queryFailed

Speaker

- getAllLocal
- getPartials
- getTopLocal

DataContext

- prime

Attendee

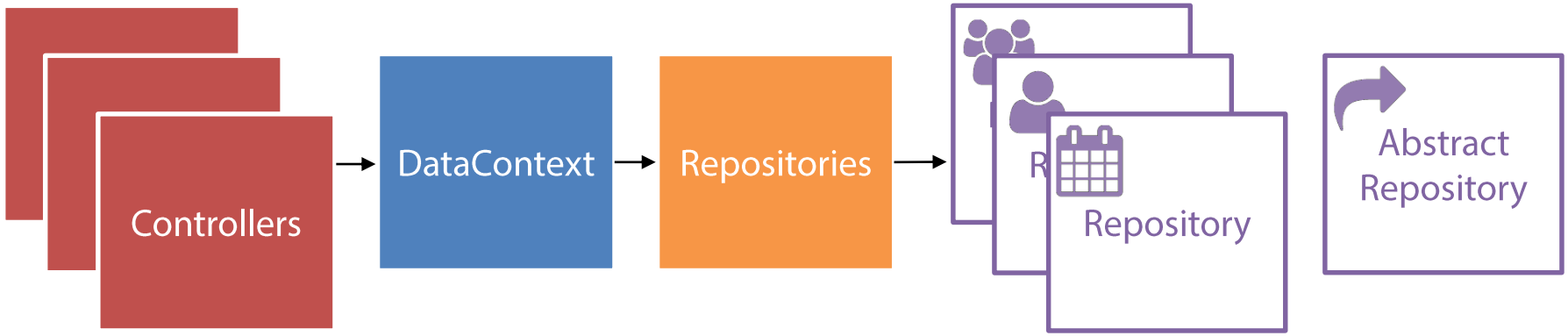
- getCount
- getAll
- getFilteredCount

Session

- getCount
- getPartials
- getTrackCounts

Separation Using the Repository Pattern

Evolving the DataContext



Repository Pattern

Combined
JavaScript, Angular and Breeze

Common Separation Pattern

Don't Start Here

Refactor As Your App Evolves

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http://www.fotolia.com/johnpapa