

Building Client Applications That Consume OData V4 Services



KEVIN DOCKX

ARCHITECT

@KevinDockx <https://www.kevindockx.com>



Coming Up



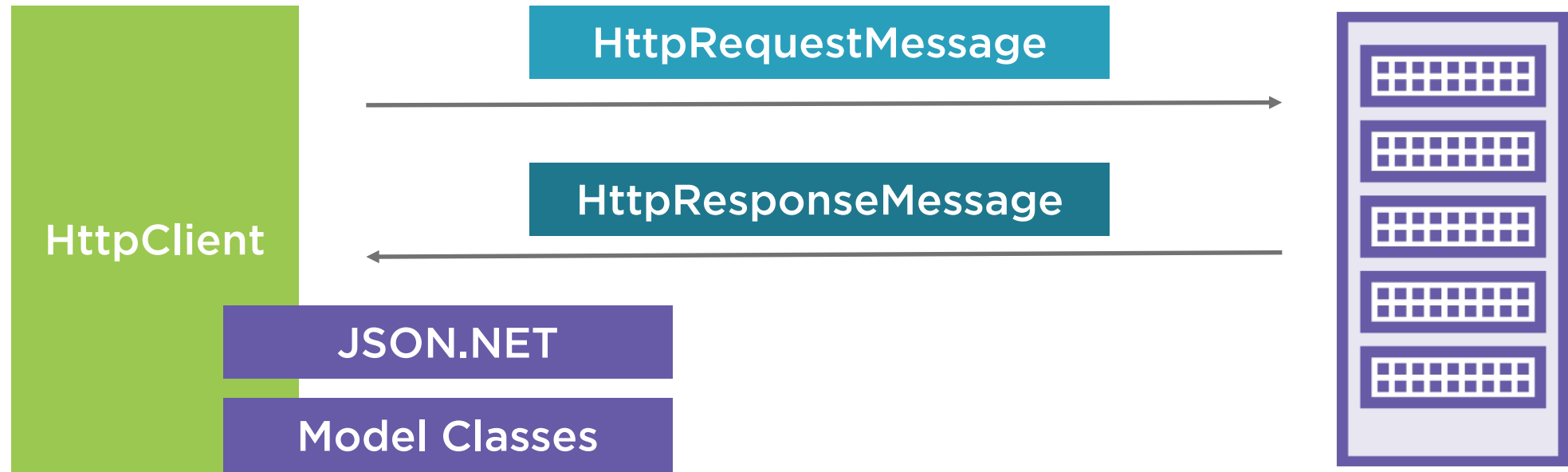
Consuming OData Services

.NET and JavaScript

Additional Libraries









Libraries and Tools

.NET

OData Connected Service
<http://bit.ly/1PYu3yf>

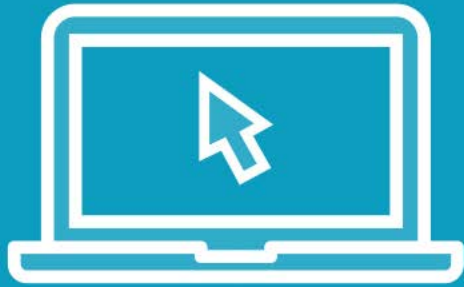
OData Client for .NET
<http://bit.ly/1qbOgM4>

JavaScript

Apache Olingo OData Client for
JavaScript
<http://bit.ly/1Sjk2NL>



Demo

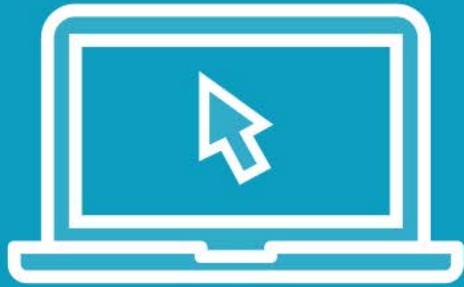


Consuming an OData Service From .NET

- OData Connected Service
- Microsoft's OData Client
- Read, Create, Update and Delete



Demo

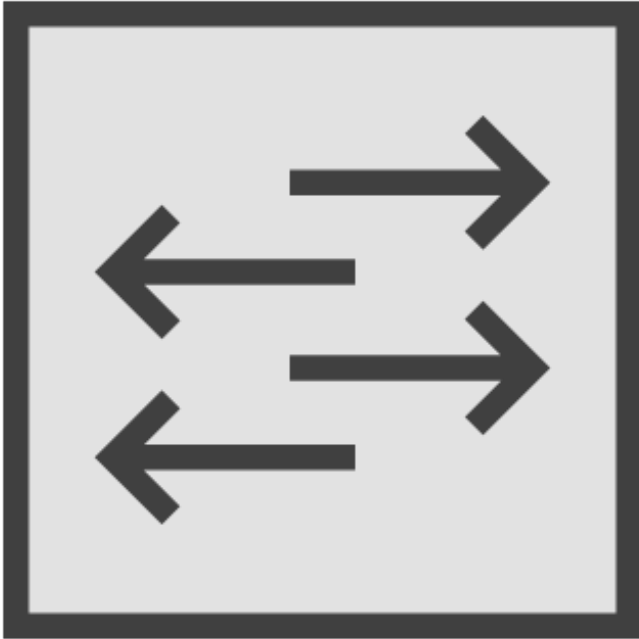


Consuming an OData Service From JavaScript (Part 1)

- Apache's Olingo OData Client (odatajs)
- Read, Create, Update and Delete



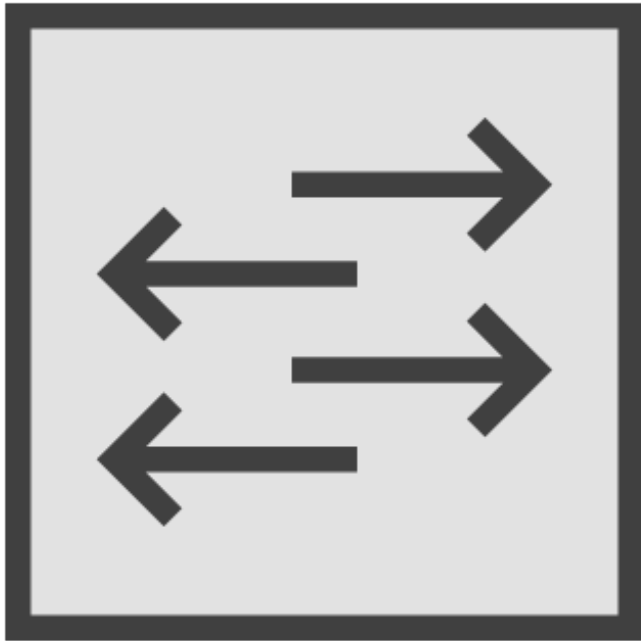
Cross-Origin Resource Sharing



AJAX requests to another domain are prevented

CORS allows a server to relax the same-origin policy

Cross-Origin Resource Sharing



Origin: <http://example.com>

<http://example.net>

Different domain

<http://example.net:9000/foo.html>

Different port

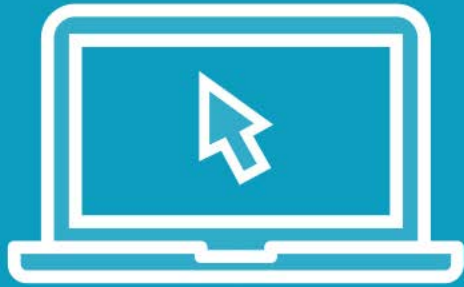
<https://example.com/foo.html>

Different scheme

<http://www.example.com/foo.html>

Different subdomain

Demo



Consuming an OData Service From JavaScript (Part 2)

- CORS
- Apache's Olingo OData Client (odatajs)
- Read, Create, Update and Delete



Additional Libraries



Simple OData Client
<http://bit.ly/1PYoYWS>



Apache Olingo Project
<http://bit.ly/1Whv3Fg>



o.js
<http://bit.ly/1RIsPNe>

Even more libraries
<http://www.odata.org/libraries/>



Summary



OData: the Open Data Protocol

- Best practices for building and consuming RESTful API's

Entity Data Model

GET, POST, PUT/PATCH, DELETE

We're implementing a standard

Summary



[EnableQuery]

- Parse, validate, apply
- Deferred execution

Containment Navigation

Custom Functions and Actions

Singleton

Summary



Derived Types

- Qualified name

Open Types

- Persist undeclared properties

Batch Requests

- Multipart MIME v1 message

Consuming the API

- Helper libraries
- OData metadata and standard

You're ready to be AWESOME!



@KevinDockx

