Getting Starting: Angular & Web API



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Module Objectives

Review Web Application Architecture

Create the Projects

Examine the Anatomy of an Angular App

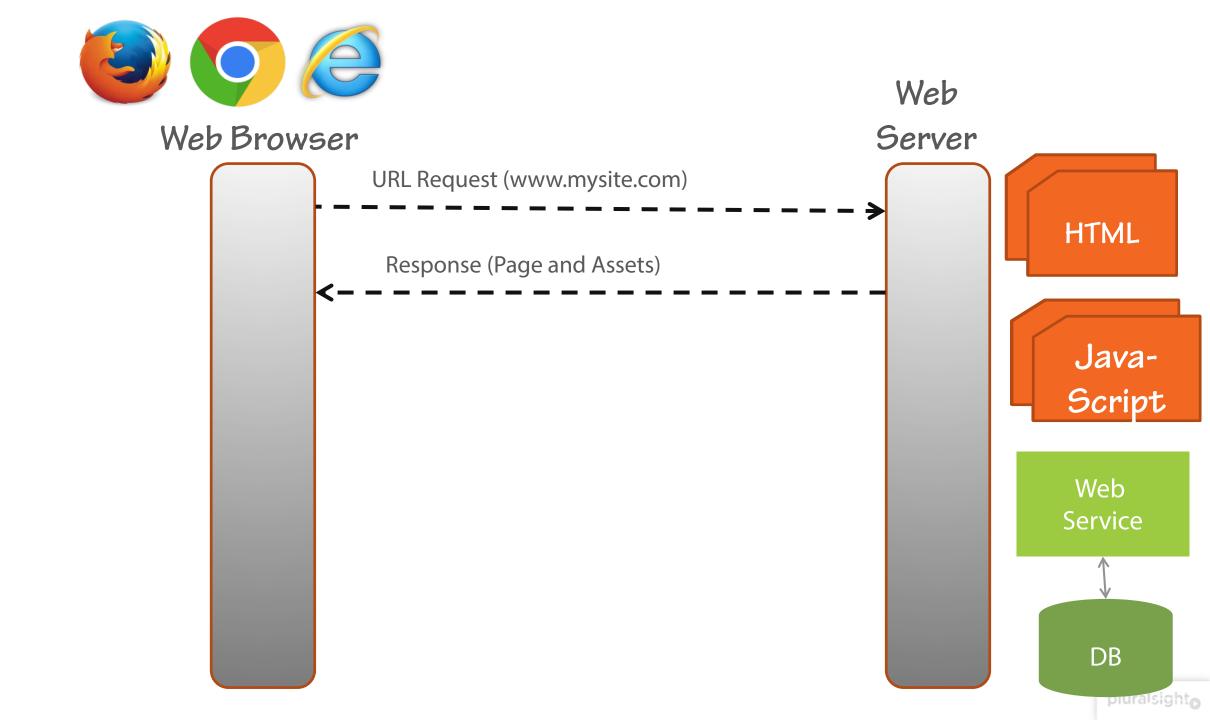
Examine the
Anatomy of an
ASP.NET Web API
Service

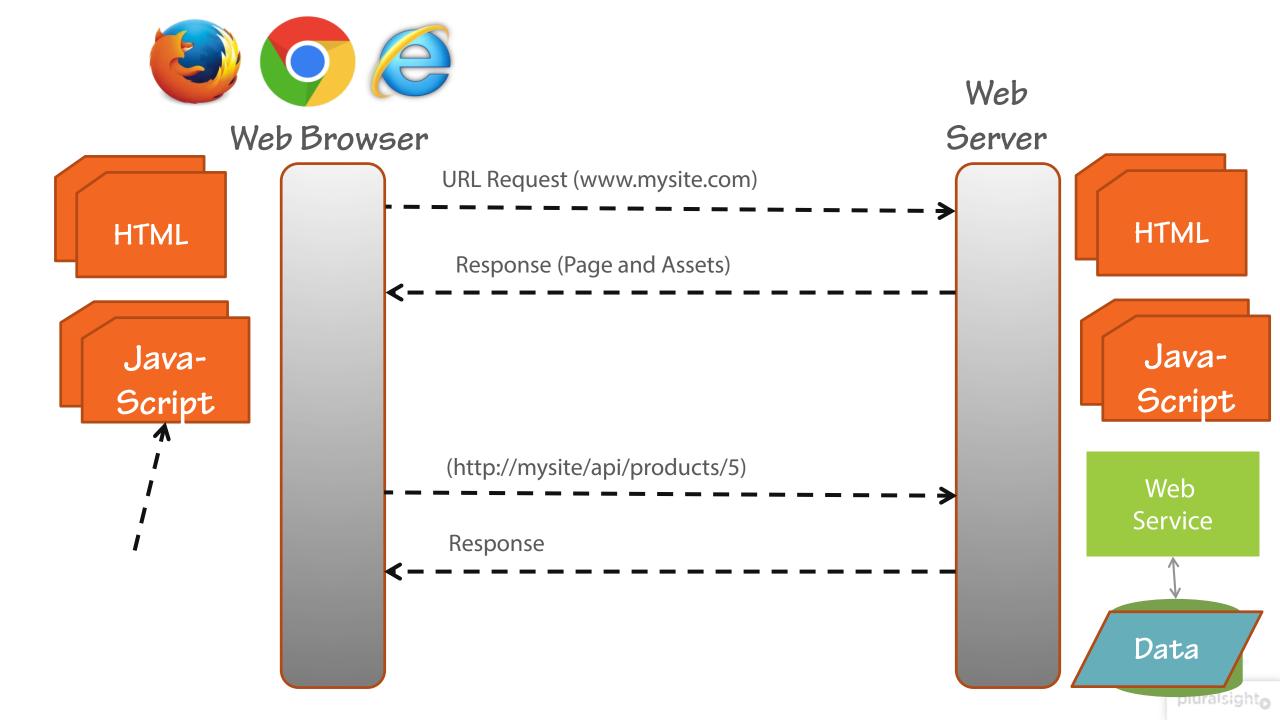
Acme Product Management (APM)

Acme Product Management

Product	Code	Available	Price
_eaf Rake	GDN-0011	March 19, 2009	\$19.95
Garden Cart	GDN-0023	March 18, 2010	\$32.99
Hammer	TBX-0048	May 21, 2013	\$8.99
Saw	TBX-0022	May 15, 2009	\$11.55
/ideo Game Controller	GMG-0042	October 15, 2002	\$35.95

Web Application Architecture from Front to Back





Why Angular?

Expressive HTML

Powerful Data Binding

Clean Programming Built-in Services

Why ASP.NET Web API?

HTTP

RESTful

Supports broad range of clients

Built upon the .NET Framework

Built-in features for routing, actions, and more

Easy to learn

Building an ASP.NET Web API

We will use this

Part of ASP.NET MVC app

Part of ASP.NET WebForms app

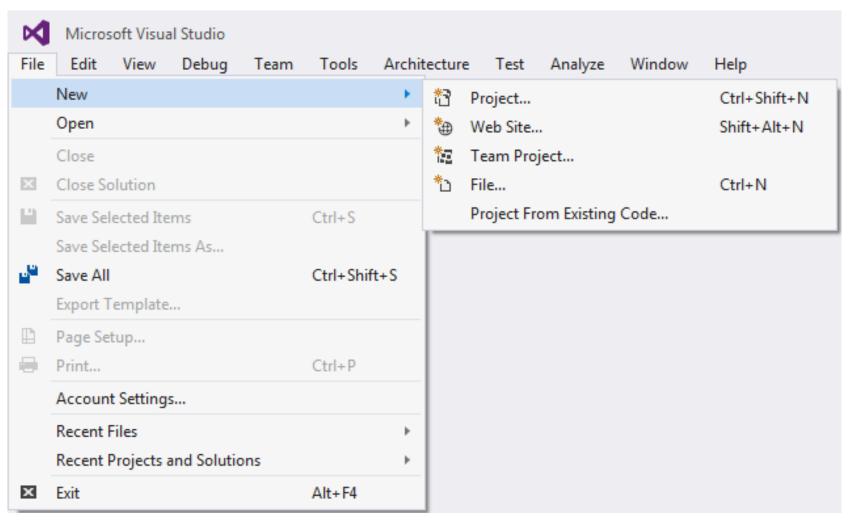
Stand alone service

Editor

- Angular
 - Text Editor (NotePad)
 - Code Editor (WebStorm or Visual Studio)
- ASP.NET Web API
 - Visual Studio

Creating the Project: ASP.NET Web API

File | New | Project ASP.NET template

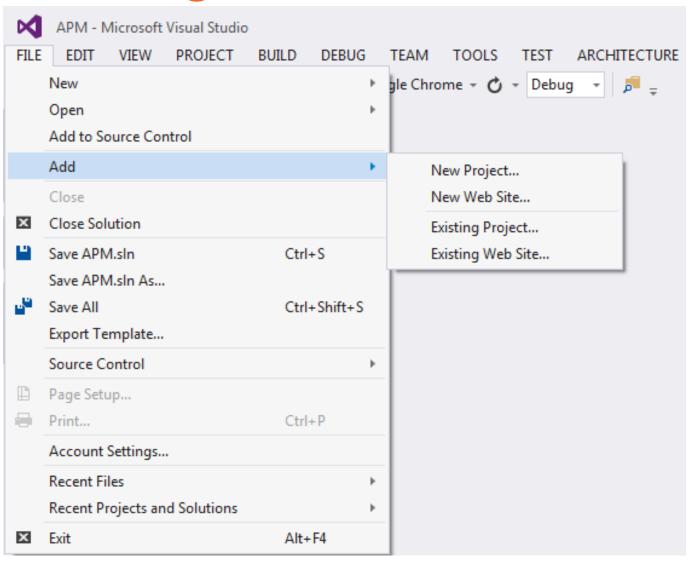


Creating the Project: Angular

Same ASP.NET Web Project

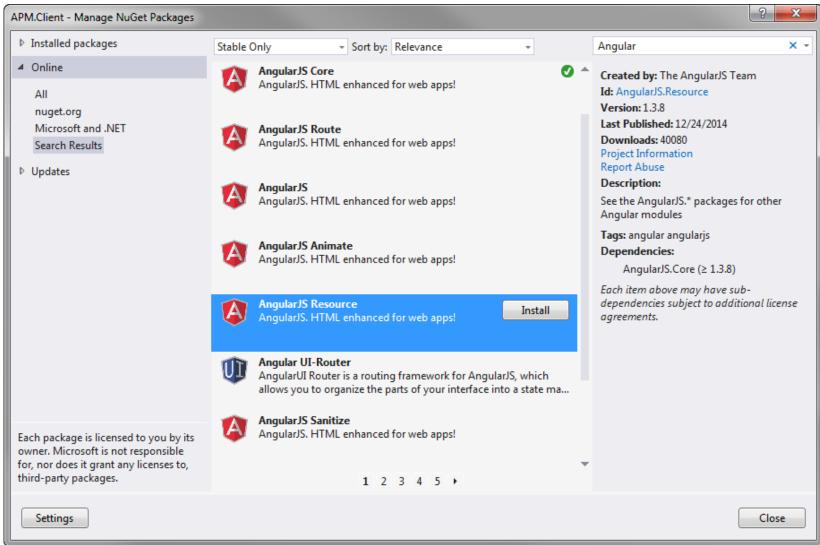
Separate
ASP.NET Web Project

Web Site



AngularJS Core Bootstrap

NuGet



Anatomy of an Angular Application

Angular Application (product Management)

index.html

```
<body ng-app=
"productManagement">
```

```
<ng- i ncl ude=
"' productLi stVi ew. html ' ">
```

</body>

productListView

```
<di v ng-controller=
  "ProductListCtrl as vm">
    ...
</div>
```

ProductListCtrl

Model

Methods

Anatomy of an ASP.NET Web API Service

APM.WebAPI **{Opptional Identifier** api /{controller}/{id} Request Routing (GET, POST, etc) api/values/5 Controller name 5 is the identifier public class ValuesController: Controller Api Controller a GET request with a product ID on the URL will route to this GET method public string Get(int id) Action Response return "value";

This Module Covered



Web Application Architecture

Creating the Projects

Anatomy of an Angular App

Anatomy of an ASP.NET Web API service