CORS and Formatters

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Module Objectives

- Understanding CORS
- Enabling CORS
- Understanding Serialization Formatters
- Configuring the JSON Formatter

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CORS … allows many resources … on a web page to be requested from another domain outside the domain from which the resource originated.

— Wikipedia

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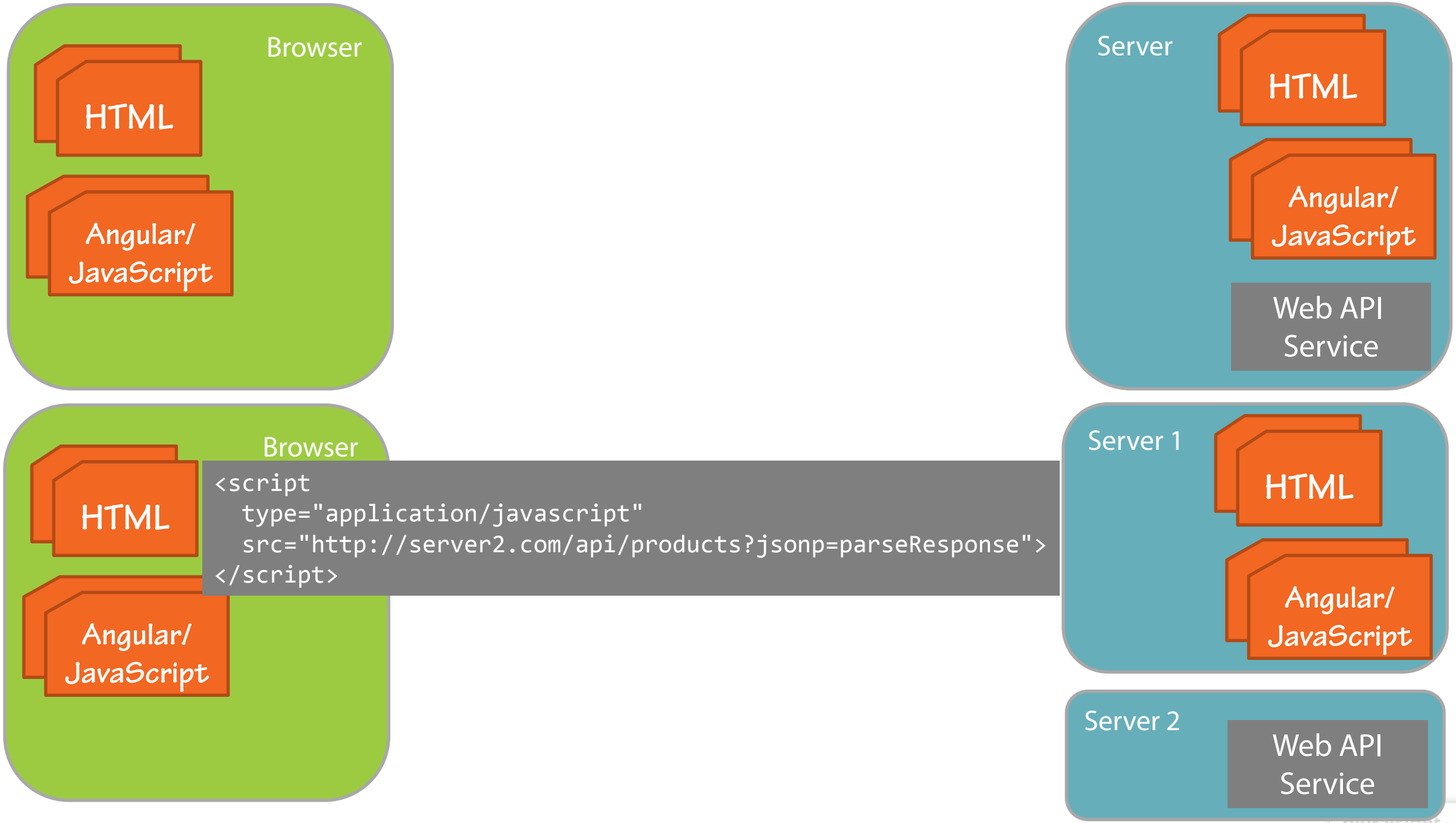
Browser
HTML
Angular/
JavaScript
Server
HTML
Angular/
JavaScript
Web API
Service
Browser
HTML
Angular/
JavaScript
<script
type="application/javascript"
src="http://server2.com/api/products?jsonp=parseResponse">
</script>
Server 1
HTML
Angular/
JavaScript
Server 2
Web API
Service

```
config.EnableCors();

[EnableCorsAttribute("http://localhost:52436", "*","*")]
```

Enabling CORS in a Web API Service

Download the CORS package

Call the EnableCors method as part of the configuration setup

Set the EnableCorsAttribute on the class

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Serialization is the process of translating data structures or object state into a format that can be stored ... or transmitted across a network connection …

— Wikipedia

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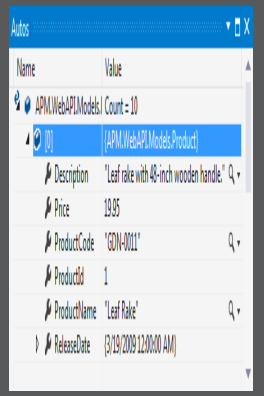
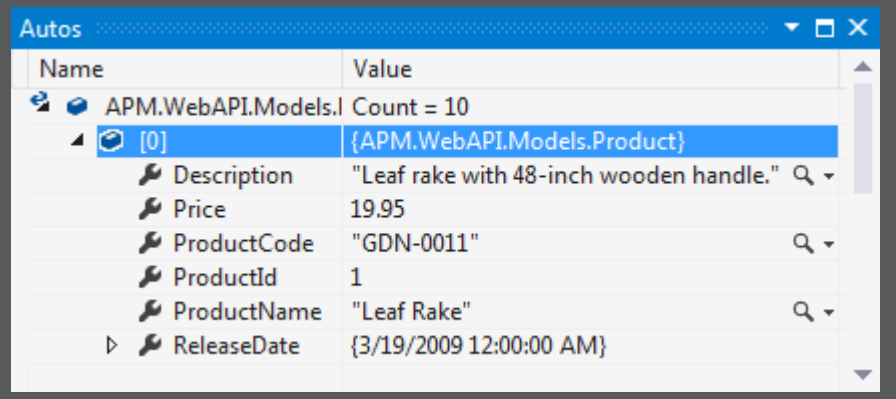
Web API Service

```
[
 {
 "ProductId": 1,
 "ProductName": "Leaf Rake",
 "ProductCode": "GDN-0011",
 "ReleaseDate": "2009-03-19T00:00:00",
 "Description": "Leaf rake with 48-
inch wooden handle.",
 "Price": 19.95
 }, …
]
```

Serializer



Controller



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Serializer

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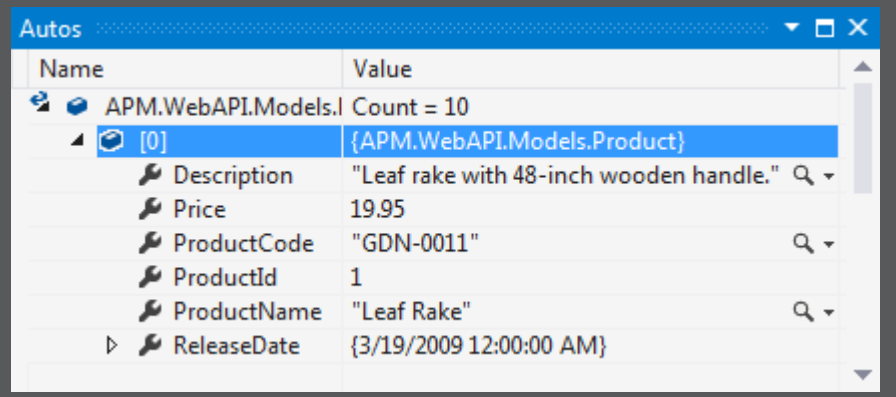

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Serialization Formatters

JSON

XML

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JSON Formatter Settings

- [JsonIgnore]
- DateTimeZoneHandling
  - 2009-03-19T00:00:00
- Formatting
- CamelCasePropertyNamesContractResolver

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```
config.Formatters.JsonFormatter
    .SerializerSettings.ContractResolver =
                new CamelCasePropertyNamesContractResolver();
```

Camel Case Property Names

Set the JsonFormatter's ContractResolver

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This Module Covered

Understanding CORS

Enabling CORS

Understanding Serialization Formatters

Configuring the JSON Formatter

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Touch Points

- Michelangelo Buonarroti via Wikimedia Commons
https://www.flickr.com/photos/34409164@N06/4277702120

- Retrieving Data
- Filtering, Shaping, Querying Data
- Saving Data
- Error Handling
- User Authentication
- User Authorization

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