

Adding Client-side Functionality



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Overview



Adding client-side libraries with Bower

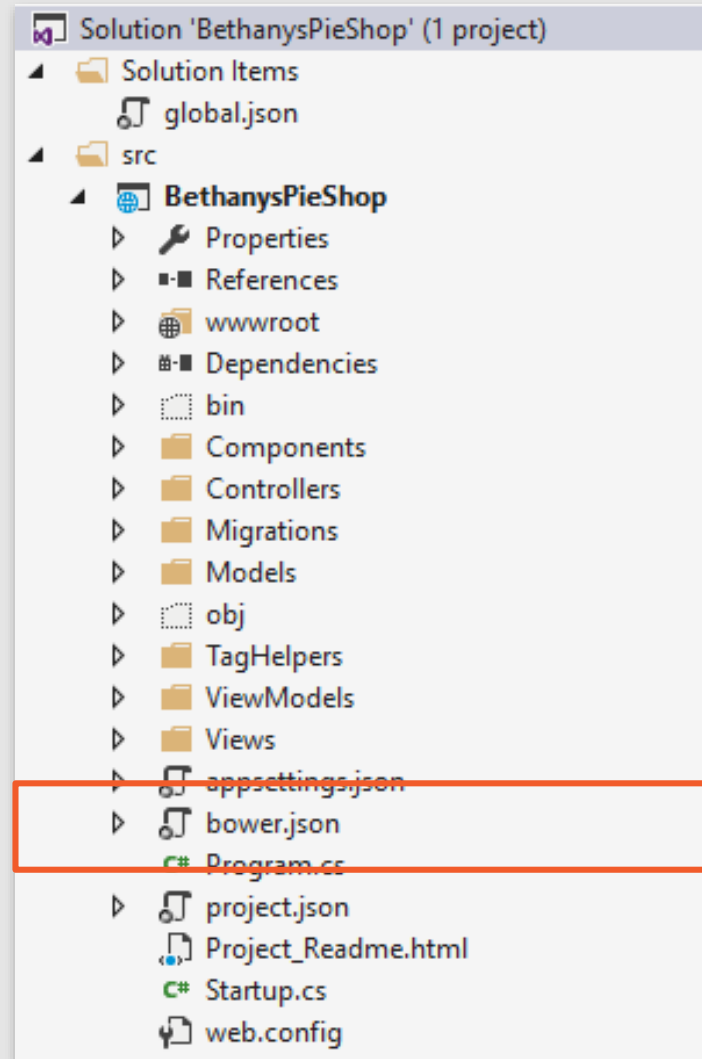
Creating an API controller



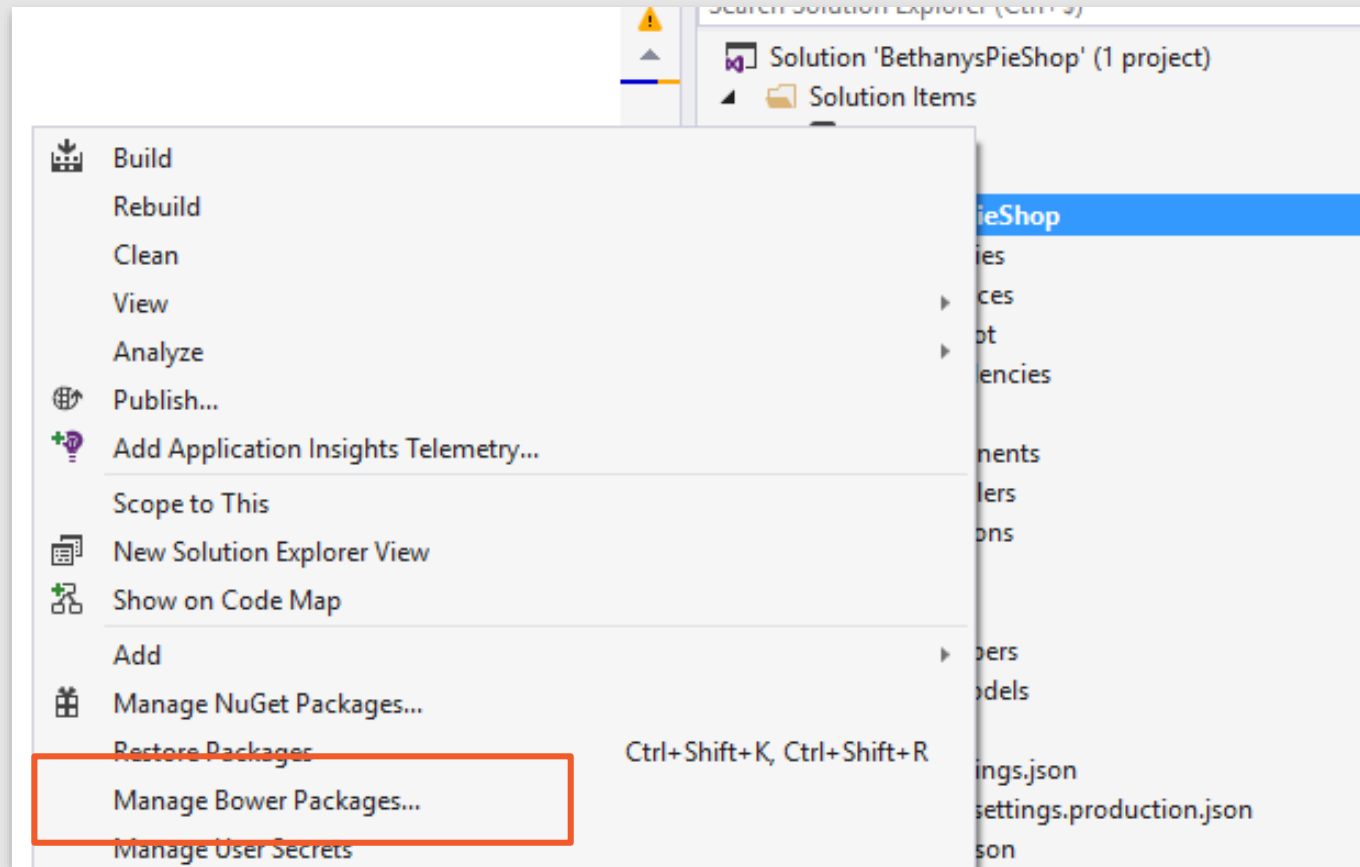
Adding Client-side Libraries with Bower



bower.json



Managing Bower Packages




Managing Bower Packages

Bower: BethanysPieShop x bower.json


Manage Bower Packages: 'BethanysPieShop' Project


Browse Installed Update Available


Search (Ctrl+E) ☐ Include Prerelease


**jquery**
JavaScript library for DOM...


Uninstall Update


**bootstrap**
The most popular front-end framework for developing r...


**angular**
HTML enhanced for web apps

**font-awesome**
Font Awesome

**animate.css**
A cross-browser library of CSS animations. As easy to us...

**reveal.js**
The HTML Presentation Framework

**impress.js**
It's a presentation framework based on the power of CS...

**jquery**

Uninstall Update 2.2.3

Options
☒ Save changes to bower.json

Description
JavaScript library for DOM operations
Author(s): jQuery Foundation and other contributors
License: MIT
Downloads: 0
Project URL: <https://jquery.com>

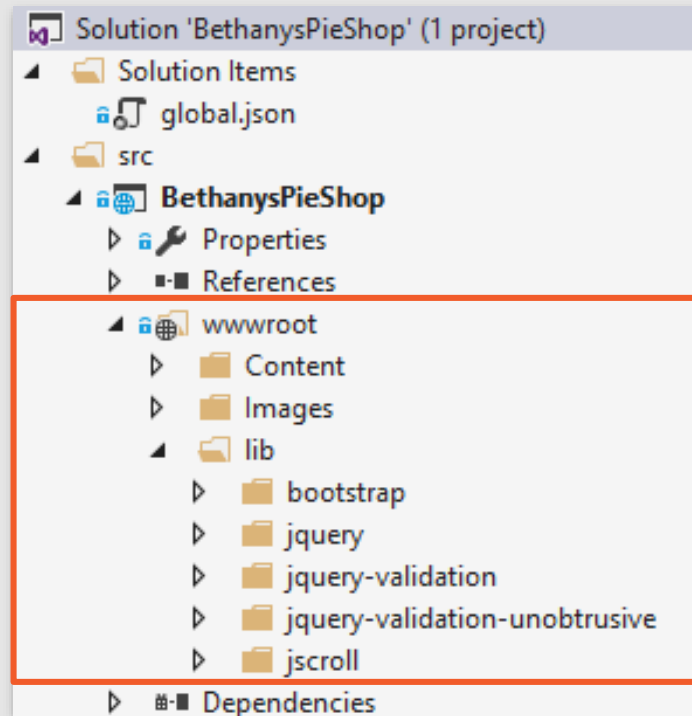


```
{  
  "name": "asp.net",  
  "private": true,  
  "dependencies": {  
    "bootstrap": "3.3.7",  
    "jquery": "3.1.1",  
  }  
}
```

Adding Support for jQuery



wwwroot



Changes in _layout.cshtml

```
<html>
<head>
    <script src="~/lib/jquery/dist/jquery.js"></script>
</head>
<body>
    ...
    @RenderSection("scripts", required: false)
</body>
</html>
```



Adding a Scripts Section

```
@section scripts{  
    <script>  
        $(function () {  
            ...  
        });  
    </script>  
}
```



Demo



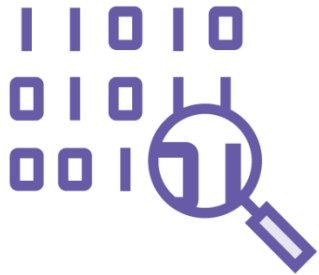
Adding jQuery to our site



Creating an API Controller



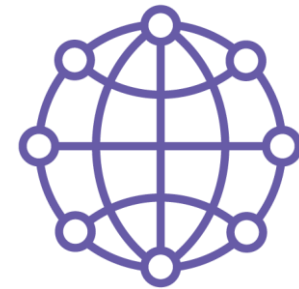
API Controllers



Data without HTML



REST-based



HTTP

API Controllers



A Basic API Controller

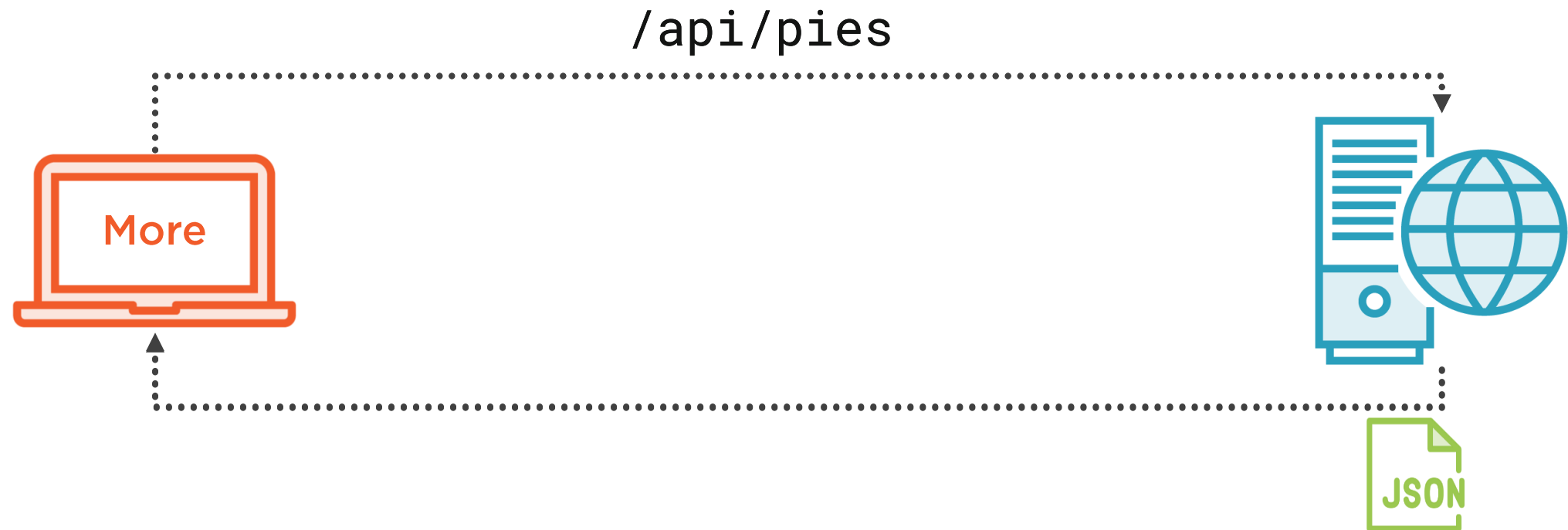
```
[Route("api/[controller]")]
public class PieDataController : Controller
{
    private IPieRepository _pieRepository;

    [HttpGet]
    public IEnumerable<PieViewModel> LoadMorePies() //api/PieData
    { ... }

    [HttpGet("{id}")]
    public PieViewModel LoadPieById(int id) //api/PieData/id
    { ... }
}
```



Async Operations



Demo



Creating the API controller

Creating a Load More function with
jQuery and Ajax



[https://www.pluralsight.com/courses/
asp-dotnet-core-api-building-first](https://www.pluralsight.com/courses/asp-dotnet-core-api-building-first)



Summary



Bower is the way forward to manage client-side libraries

Web API now based on same controller type

Calls can be made asynchronously from client-side script

