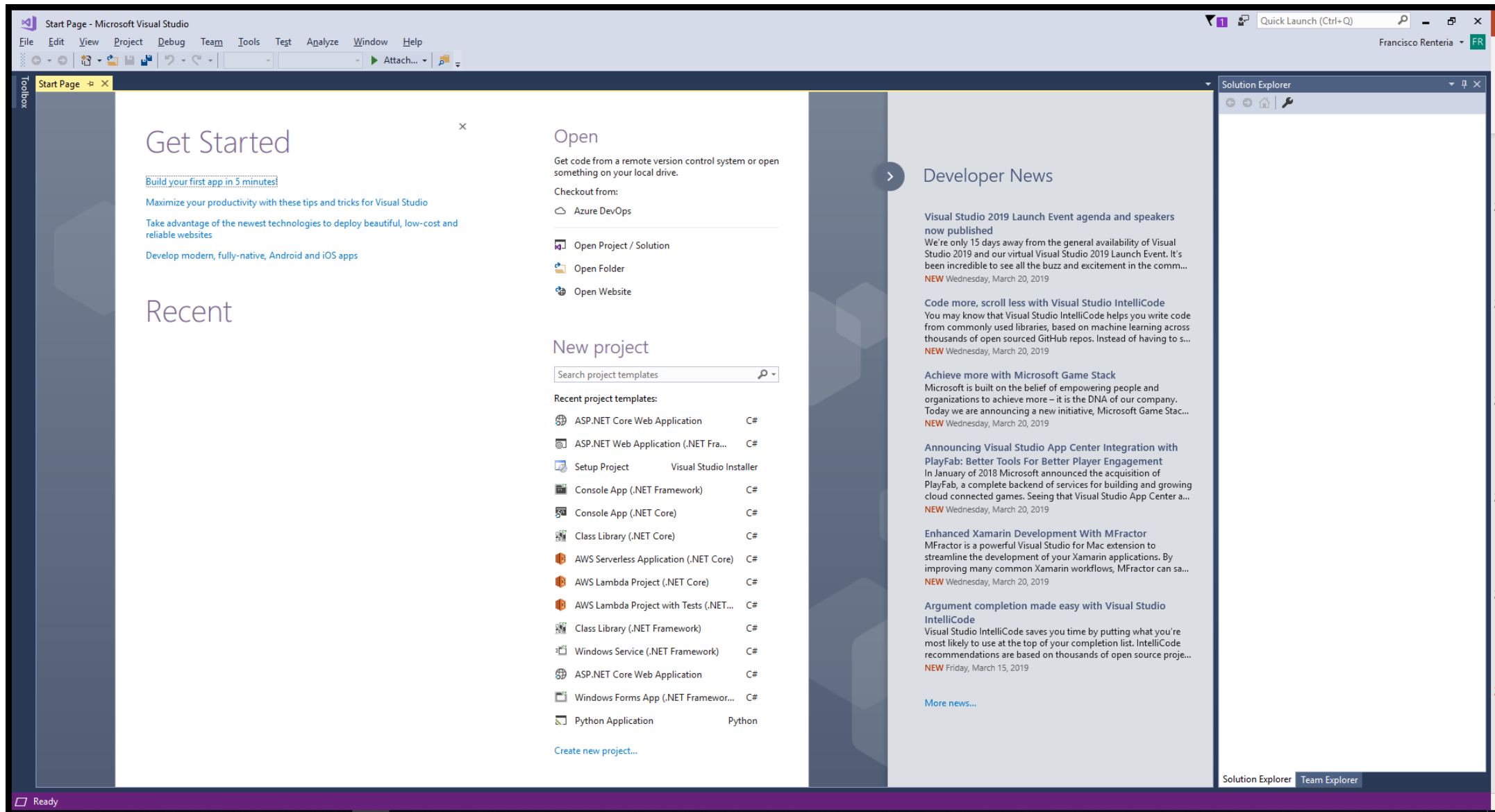


Lets create a Webservice

Requirements

- Windows
- Visual Studio community → (<https://visualstudio.microsoft.com/>)
- POSTMAN → (<https://www.getpostman.com/>)



Start Page - Microsoft Visual Studio

File Edit View Project Debug Team Tools Test Analyze Window Help

New ▶
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Close Solution
Save Selected Items Ctrl+S
Save Selected Items As...
Save All Ctrl+Shift+S
Source Control ▶
Page Setup...
Print... Ctrl+P
Account Settings...
Recent Projects and Solutions ▶
Exit Alt+F4

Project... Ctrl+Shift+N

File... Ctrl+N

Project From Existing Code...

ed

utes!

with these tips and tricks for Visual Studio

est technologies to deploy beautiful, low-cost and

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Checkout from:

☁ Azure DevOps

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Visual C#

Get Started

Windows Desktop

Web

Previous Versions

.NET Core

.NET Standard

Cloud

Test

WCF

Other Languages

Other Project Types

Online

Sort by: Default

Search (Ctrl+E)

ASP.NET Core Web Application

Visual C#

ASP.NET Web Application (.NET Framework)

Visual C#

Type: Visual C#

Project templates for creating ASP.NET Core applications for Windows, Linux and macOS using .NET Core or .NET Framework. Create Razor Pages, MVC, Web API, and Single Page (SPA) Applications.

Not finding what you are looking for?
[Open Visual Studio Installer](#)

Name: WebService.API

Location: c:\users\frank\source\repos\

Solution name: WebService.API

Browse...

☒ Create directory for solution

☐ Add to Source Control

OK

Cancel

.NET Core

ASP.NET Core 2.1

[Learn more](#)

Empty



API

Web
ApplicationWeb
Application
(Model-View-
Controller)Razor Class
Library

Angular



React.js

React.js and
Redux

A project template for creating an ASP.NET Core application with an example Controller for a RESTful HTTP service. This template can also be used for ASP.NET Core MVC Views and Controllers.

[Learn more](#)

Author: Microsoft

Source: SDK 2.1.505

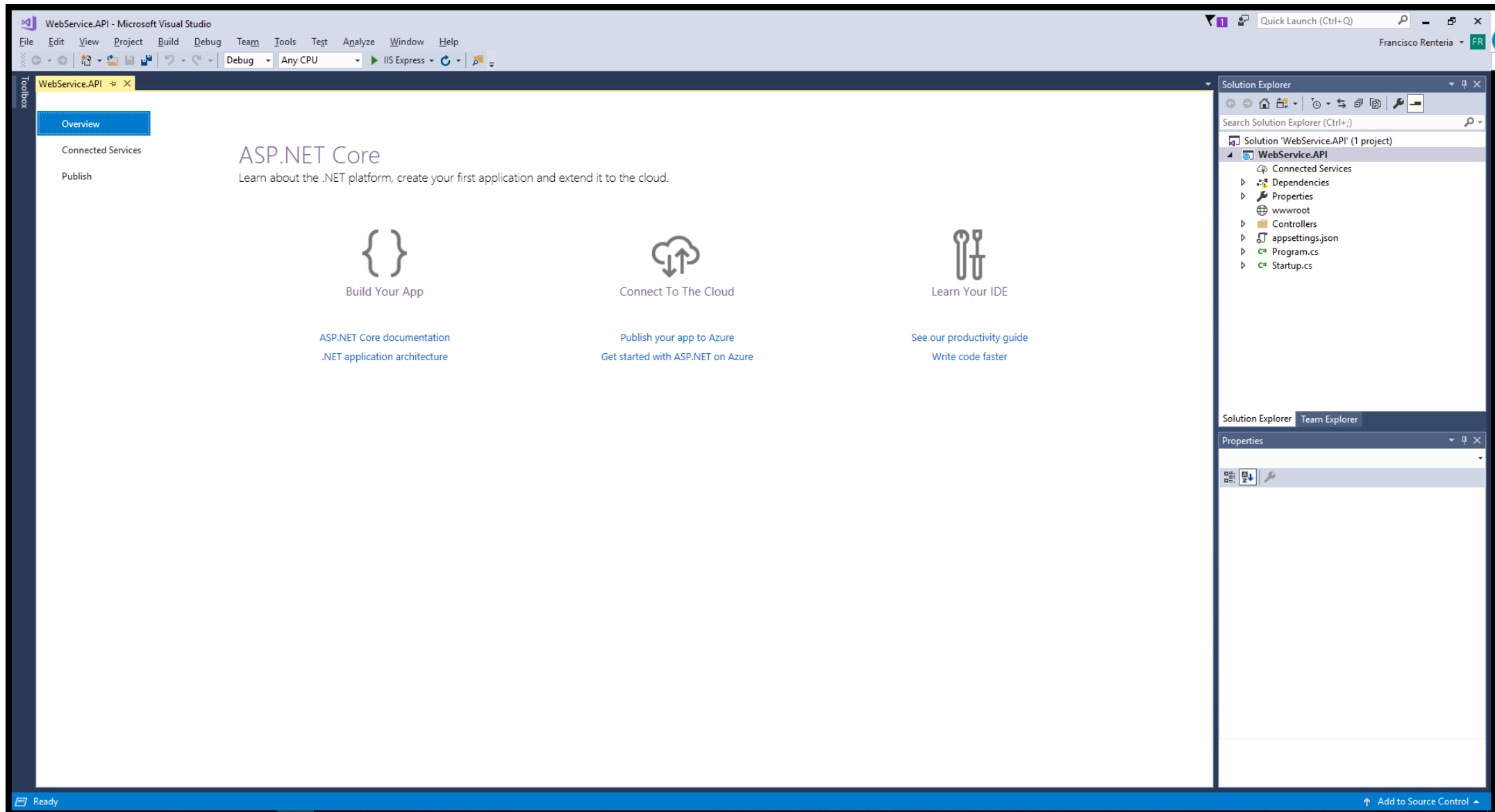
[Get additional project templates](#)☐ Enable Docker Support (Requires [Docker for Windows](#))

OS: Windows

☒ Configure for HTTPSAuthentication: **No Authentication**[Change Authentication](#)

OK

Cancel

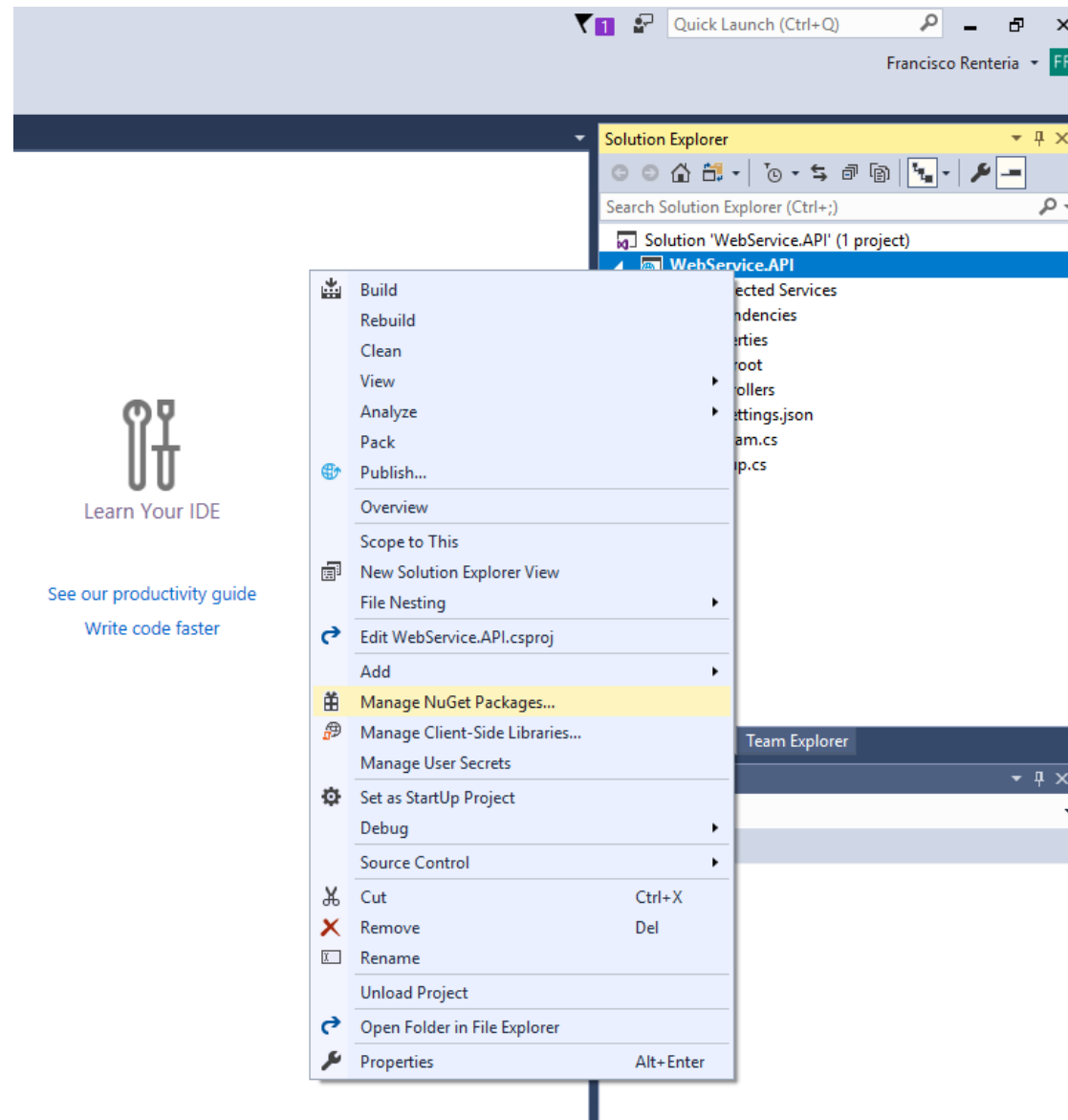




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Write code faster



WebService.API - Microsoft Visual Studio

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Debug Any CPU IIS Express

NuGet: WebService.API WebService.API

Browse Installed Updates

mysql Include prerelease

NuGet Package Manager: WebService.API

Package source: nuget.org

Package Name	Version	Downloads
MySQL.Data by Oracle, 6.38M downloads	v8.0.15	
MySQL.Data.Entity by Oracle, 1.05M downloads	v6.10.8	
ztools.other.MySql.Data by Oracle, 8.53K downloads	v6.9.8	
MySQL.Fabric by Oracle, 24.6K downloads	v6.9.12	
Pomelo.EntityFrameworkCore.MySql by Pomelo.EntityFrameworkCore.MySql, 1.66M downloads	v2.2.0	
Pomelo.Data.MySql.Unofficial by Pomelo.Data.MySql, 1.86K downloads	v1.0.1	
OKHOSTING.Sql.MySql by OK HOSTING, 2.74K downloads	v1.0.8	
Hangfire.MySql.Core by stulzq, 22.3K downloads	v2.2.2	
Peachpie.Library.MySql by Peachpie.Library.MySql, 27.8K downloads	v0.9.36	
Xamarin.MySql.Data by SnowWolf725, 1.97K downloads	v1.0.1	

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MySQL.Data

Version: Latest stable 8.0.15 Install

Options

Description

MySQL.Data.MySqlClient .Net Core Class Library

Version: 8.0.15

Author(s): Oracle

License: [View License](#)

Date published: Friday, February 1, 2019 (2/1/2019)

Project URL: <https://dev.mysql.com/downloads/>

Report Abuse: <https://www.nuget.org/packages/MySQL.Data/8.0.15/ReportAbuse>

Tags: Connector, Core, netcore, .NET, MySQL, coreclr, C/NET, .Net, Connector/Net, Connector/NET, C/Net

Dependencies

.NETFramework.Version=v4.5.2
Google.Protobuf (>= 3.5.1)

.NETCoreApp.Version=v2.0
Google.Protobuf (>= 3.5.1)
System.Security.Permissions (>= 4.4.1)
System.Configuration.ConfigurationManager (>= 4.4.1)
System.Text.Encoding.CodePages (>= 4.4.0)

.NETStandard.Version=v1.6
System.ComponentModel (>= 4.3.0)
NETStandard.Library (>= 1.6.1)
Google.Protobuf (>= 3.5.1)
System.ComponentModel.Annotations (>= 4.4.1)
System.ComponentModel.Primitives (>= 4.3.0)
System.ComponentModel.TypeConverter (>= 4.3.0)
System.Collections.NonGeneric (>= 4.3.0)
System.Data.Common (>= 4.3.0)
System.Diagnostics.TextWriterTracerListener (>= 4.3.0)
System.IO.FileSystem.Primitives (>= 4.3.0)
System.IO.Pipes (>= 4.3.0)
System.Diagnostics.Process (>= 4.3.0)
System.Runtime.InteropServices.RuntimeInformation (>= 4.3.0)
System.IO.MemoryMappedFiles (>= 4.3.0)
System.Net.Sockets (>= 4.3.0)
System.Linq.Expressions (>= 4.3.0)

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WebService.API' (1 project)

- WebService.API
 - Connected Services
 - Dependencies
 - Properties
 - wwwroot
 - Controllers
 - appsettings.json
 - Program.cs
 - Startup.cs

Solution Explorer Team Explorer

Properties

Screenshot saved

The screenshot was added to your OneDrive.

OneDrive

Ready

Preview Changes



Visual Studio is about to make changes to this solution. Click OK to proceed with the changes listed below.

WebService.API

Installing:

Google.Protobuf.3.5.1
MySQL.Data.8.0.15
System.Configuration.ConfigurationManager.4.4.1
System.Security.Cryptography.ProtectedData.4.4.0

☐ Do not show this again

OK

Cancel

License Acceptance



License Acceptance

The following package(s) require that you accept their license terms before installing.

MySQL.Data Author(s): Oracle
[View License](#)

By clicking "I Accept," you agree to the license terms for the package(s) listed above. If you do not agree to the license terms, click "I Decline."

I Accept

I Decline

WebService.API - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU IIS Express

WebService.API


Overview

Connected Services

Publish

ASP.NET Core


Learn about the .NET platform, create your first application and extend it to the cloud.



Build Your App

[ASP.NET Core documentation](#)


[.NET application architecture](#)



Connect To The Cloud

[Publish your app to Azure](#)

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Solution Explorer

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Solution 'WebService.API' (1 project)

- WebService.API
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 - Dependencies
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 - Program.cs
 - Program
 - Startup.cs

Solution Explorer Team Explorer

Properties

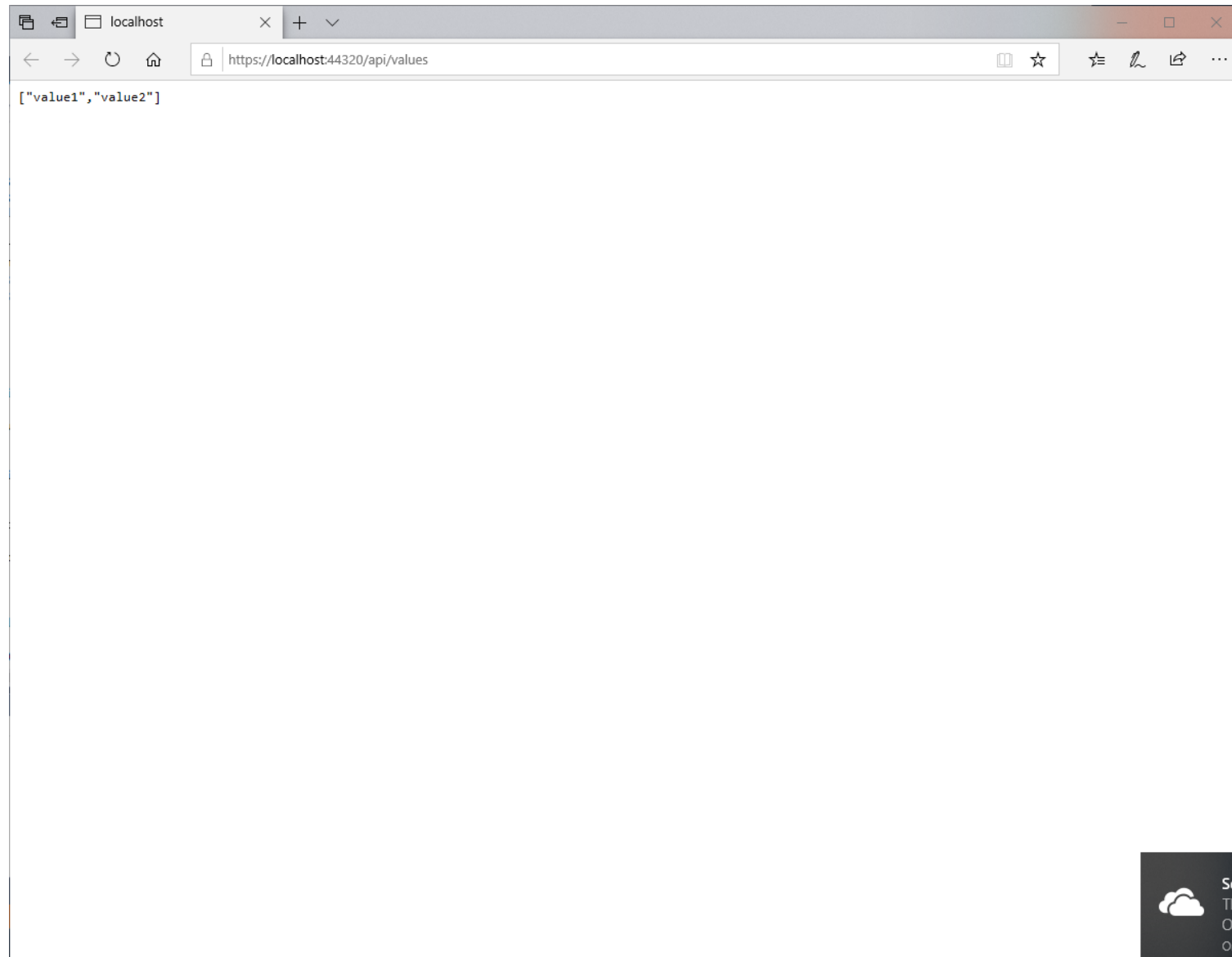
Error List

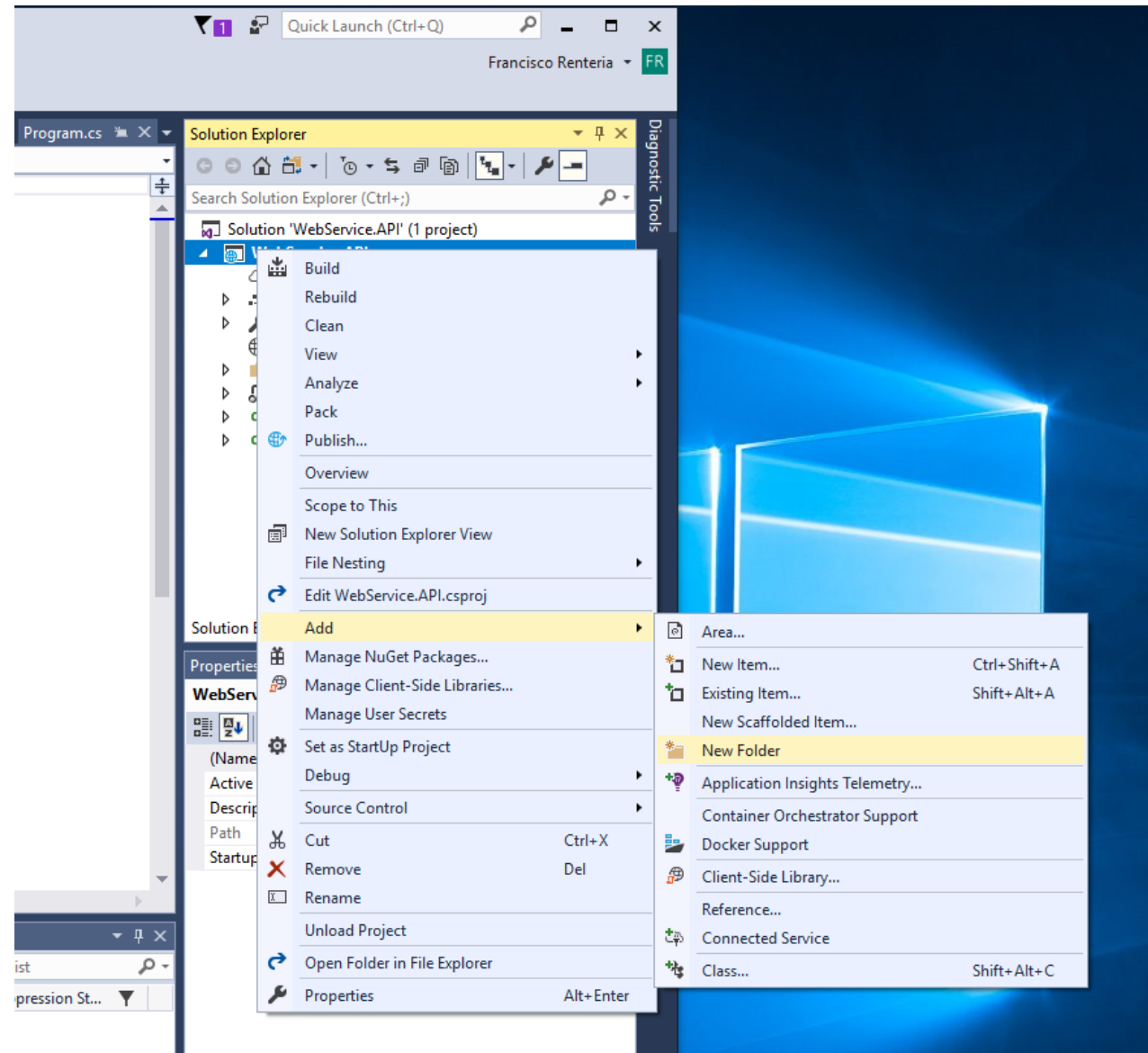
Entire Solution 0 Errors 0 Warnings 0 Messages Build + IntelliSense Search Error List

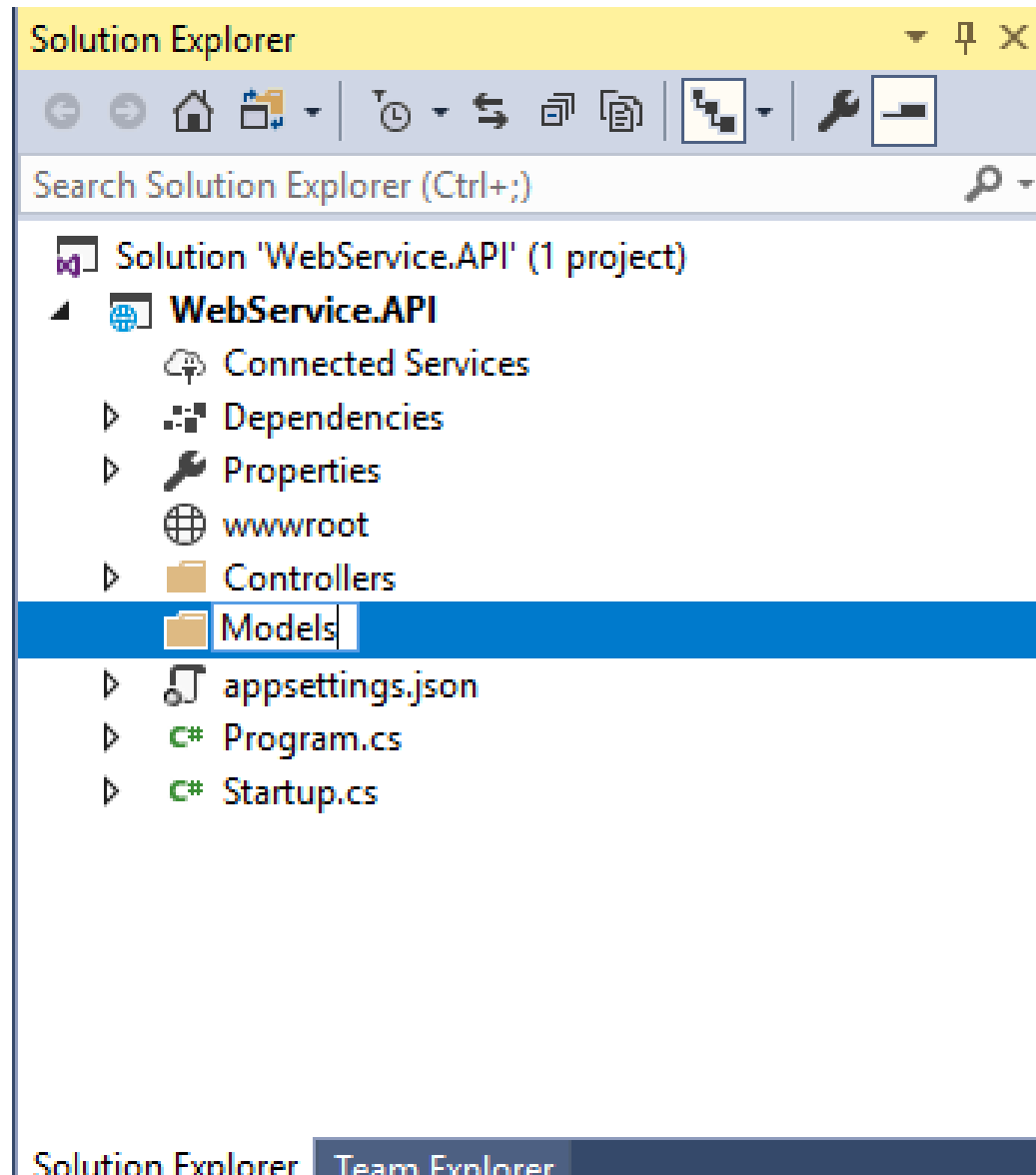
Code	Description	Project	File	Line	Suppression St...
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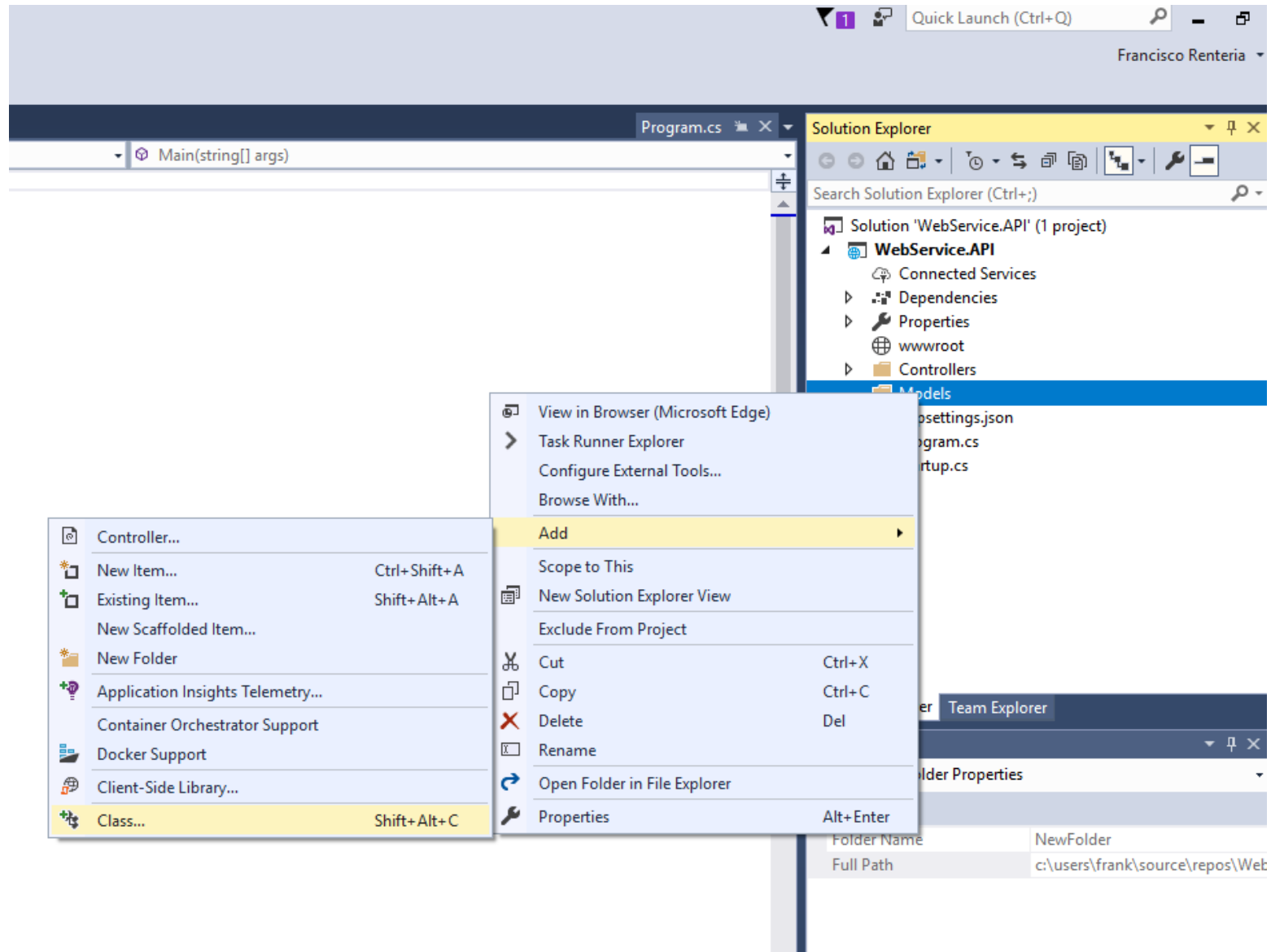
Error List Output

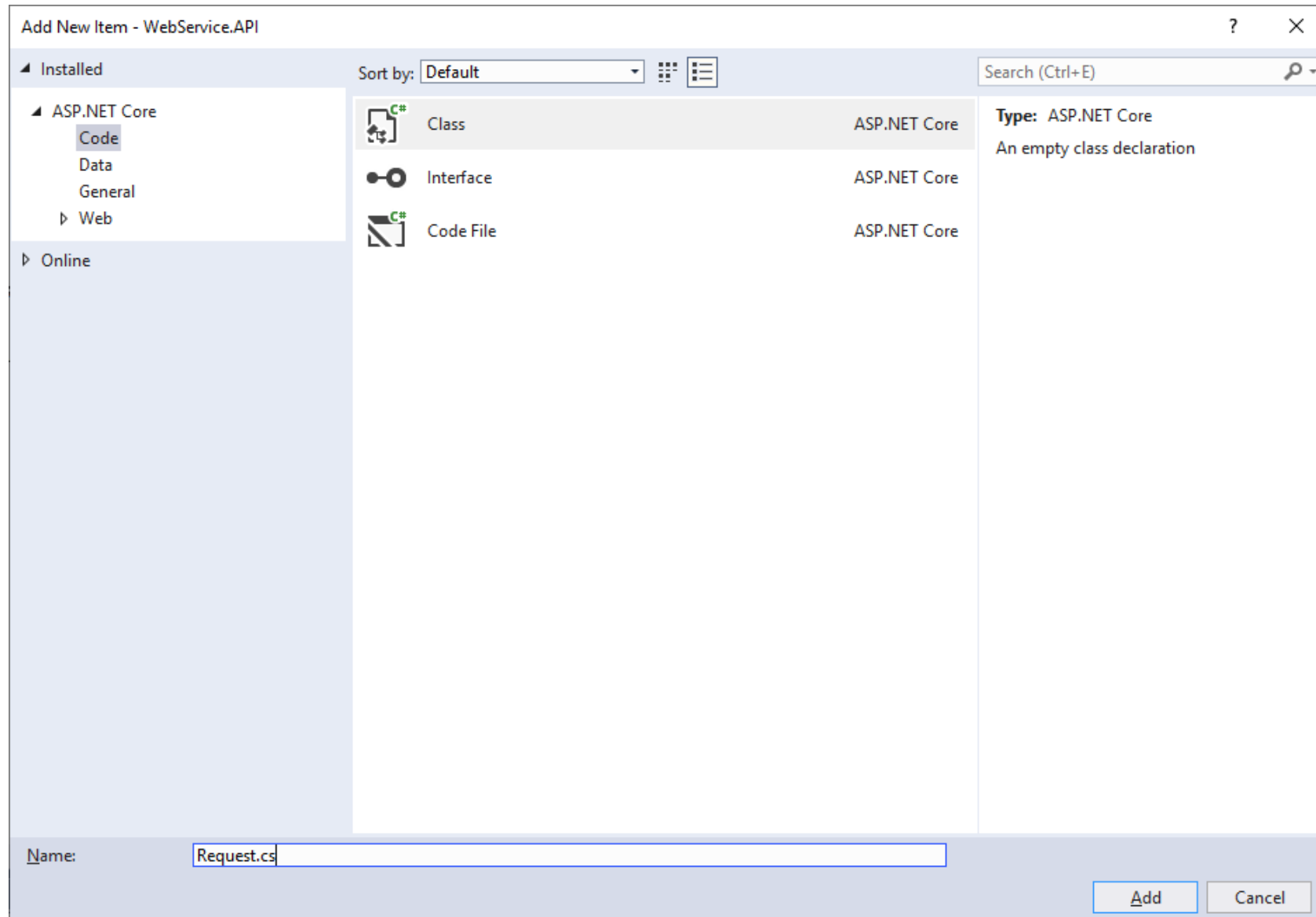
Ready Add to Source Control

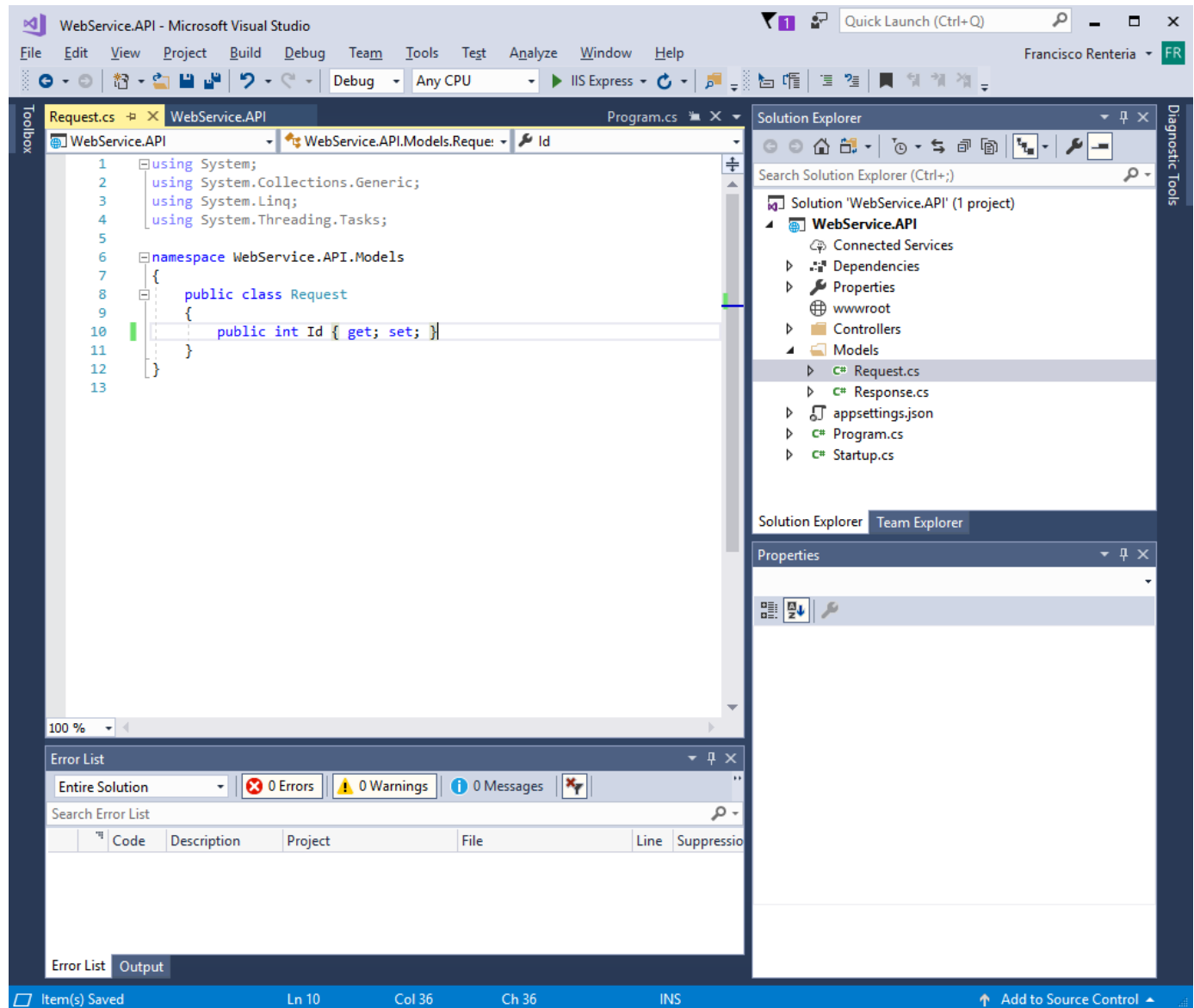


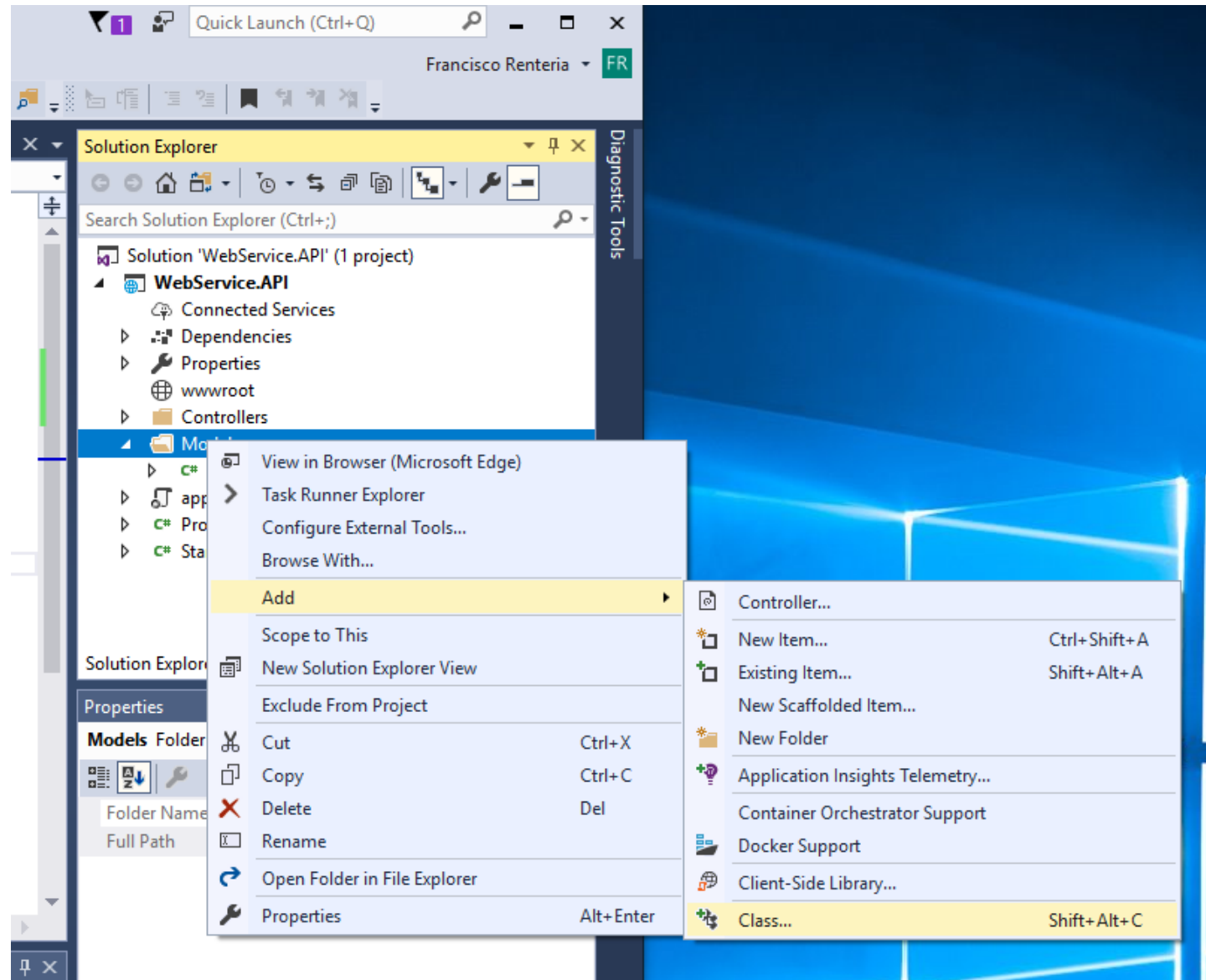


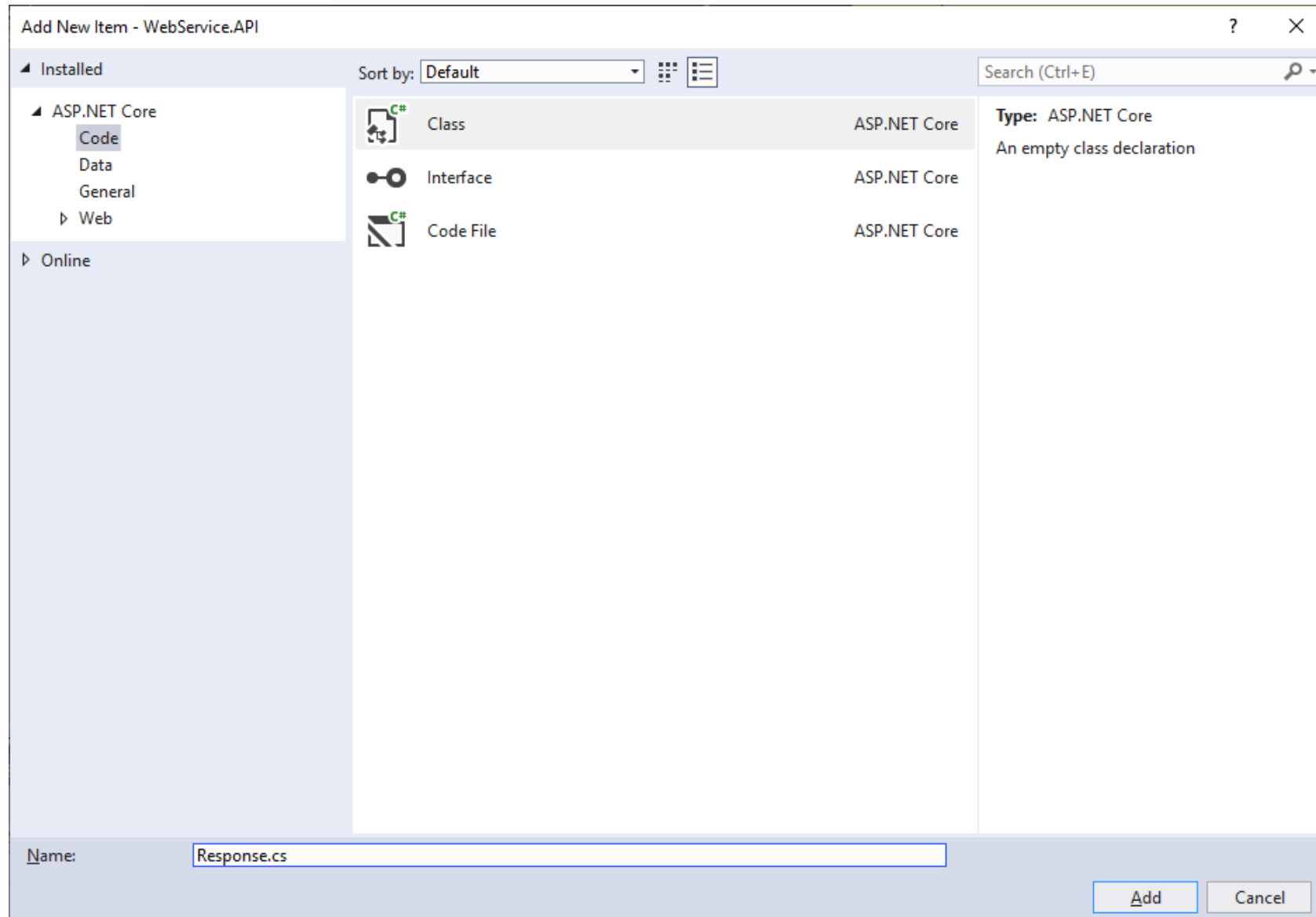


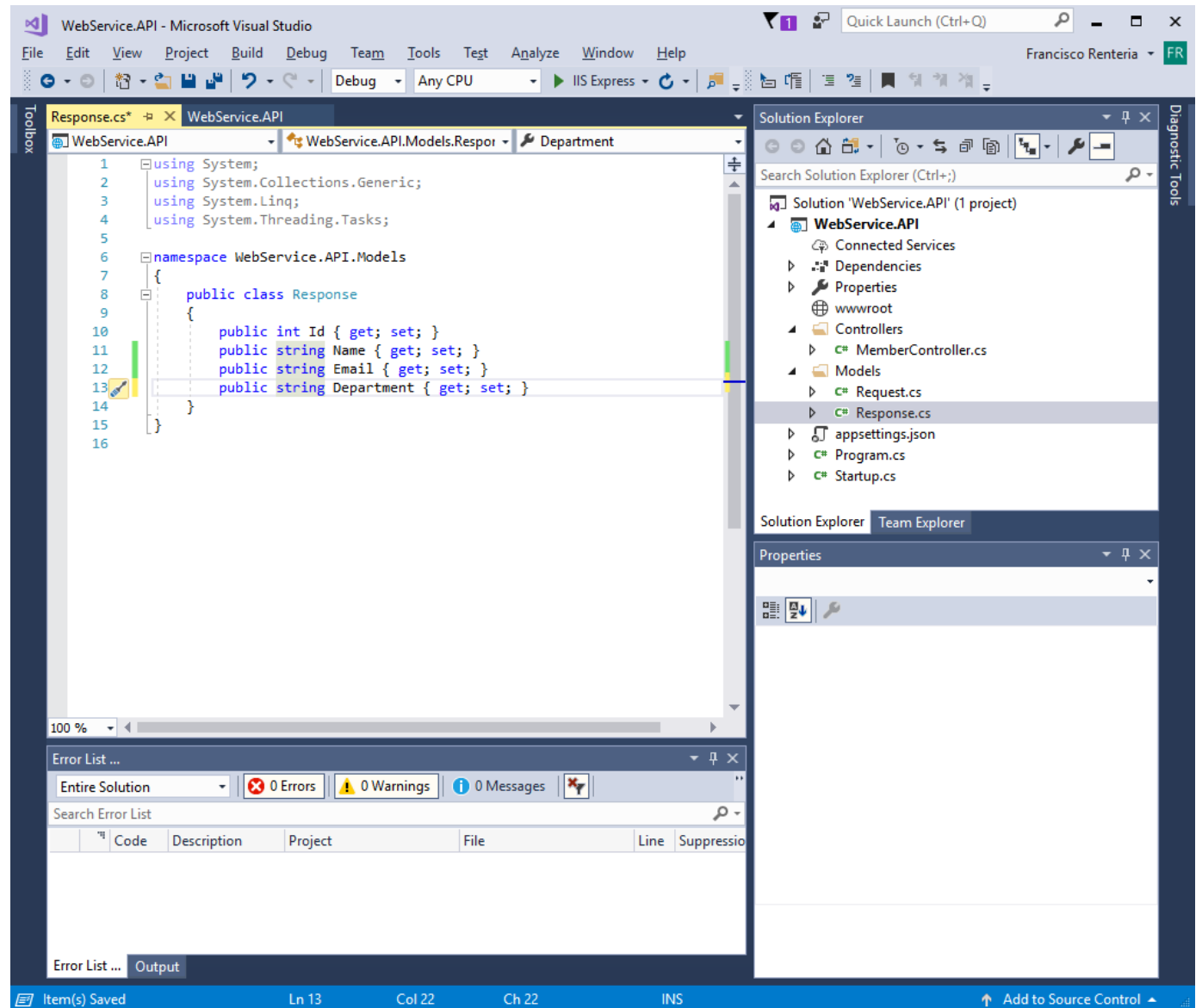


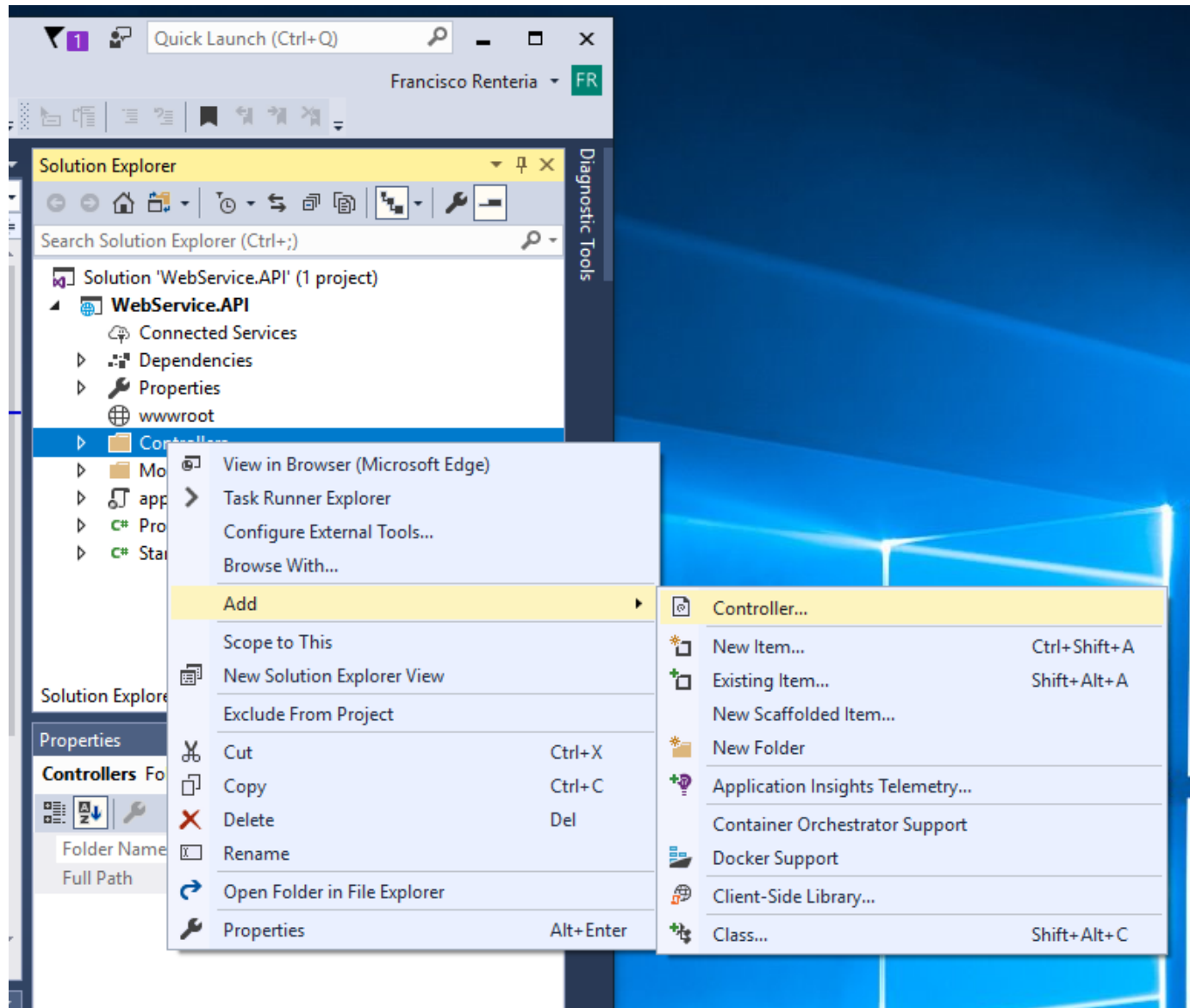


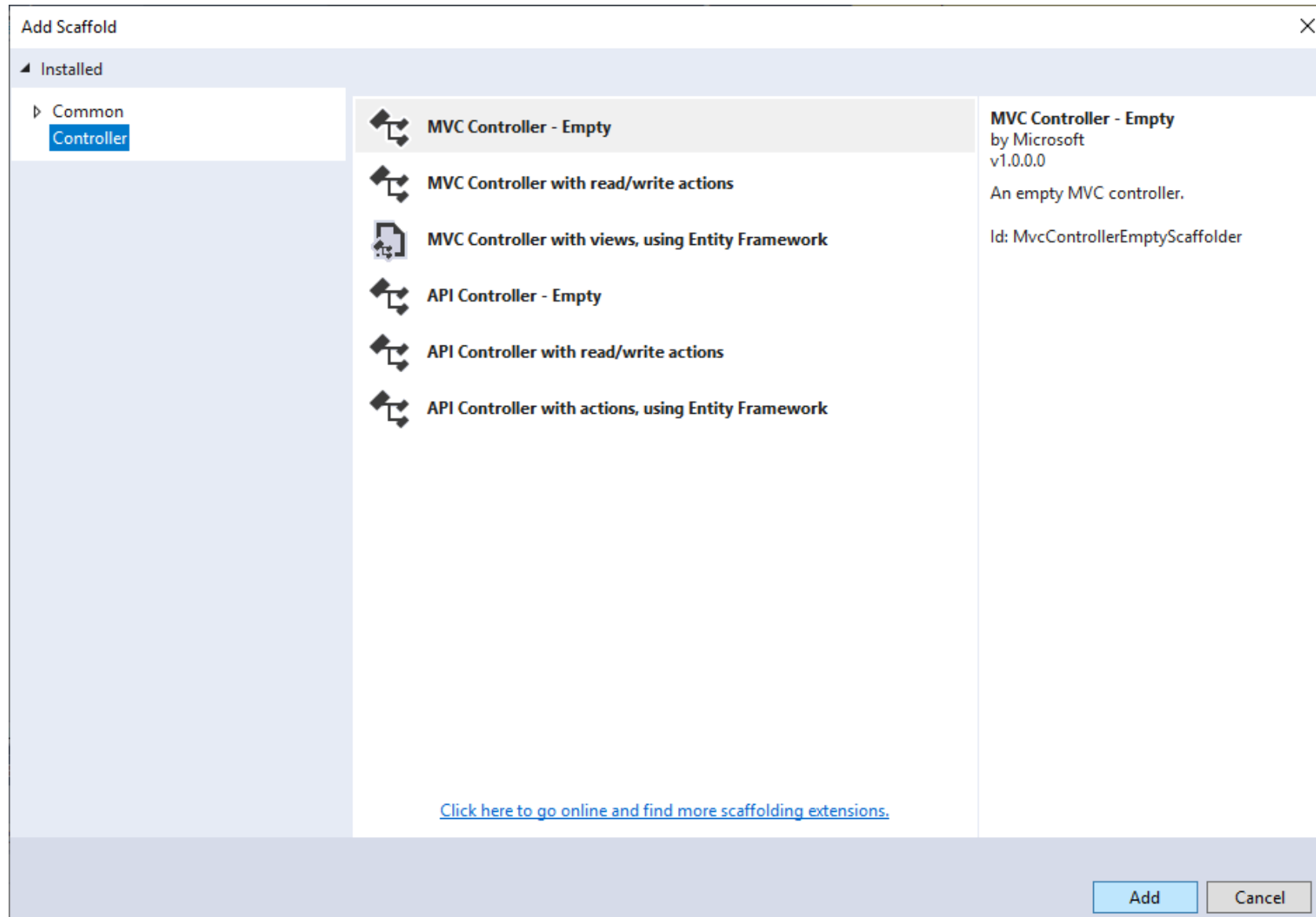












Add Empty MVC Controller

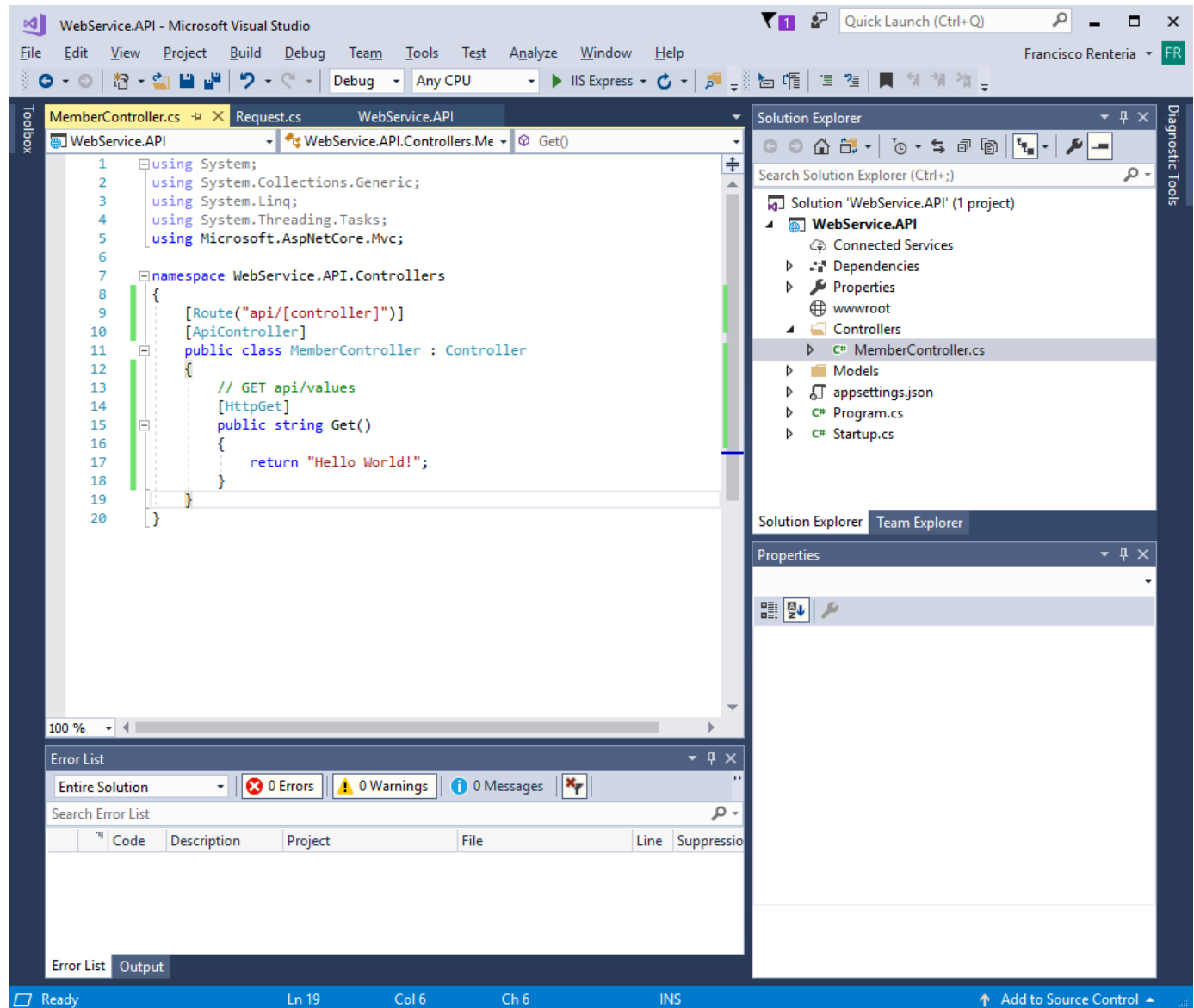


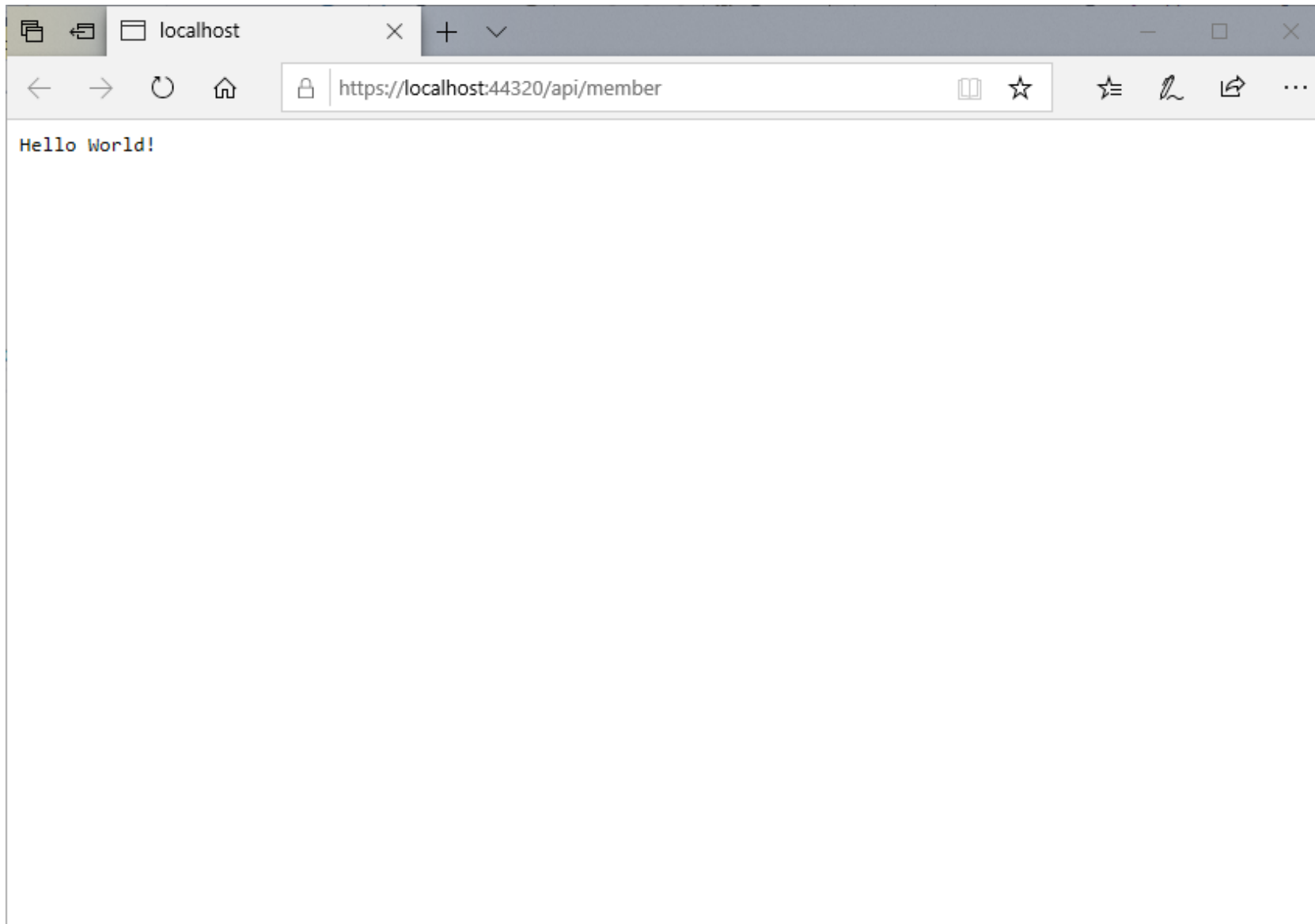
Controller name:

MemberController

Add

Cancel





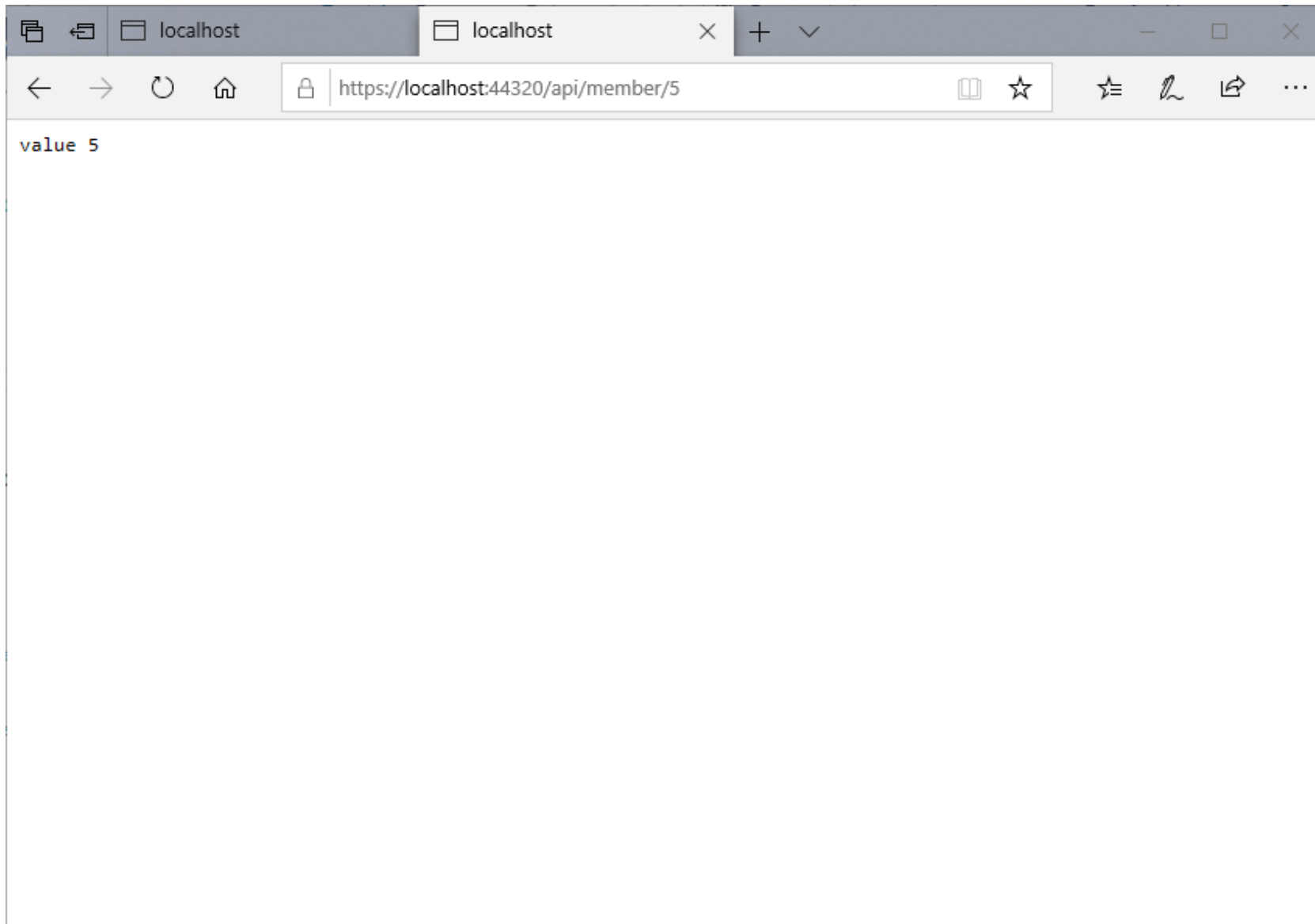
MemberController.cs X Response.cs* WebService.API

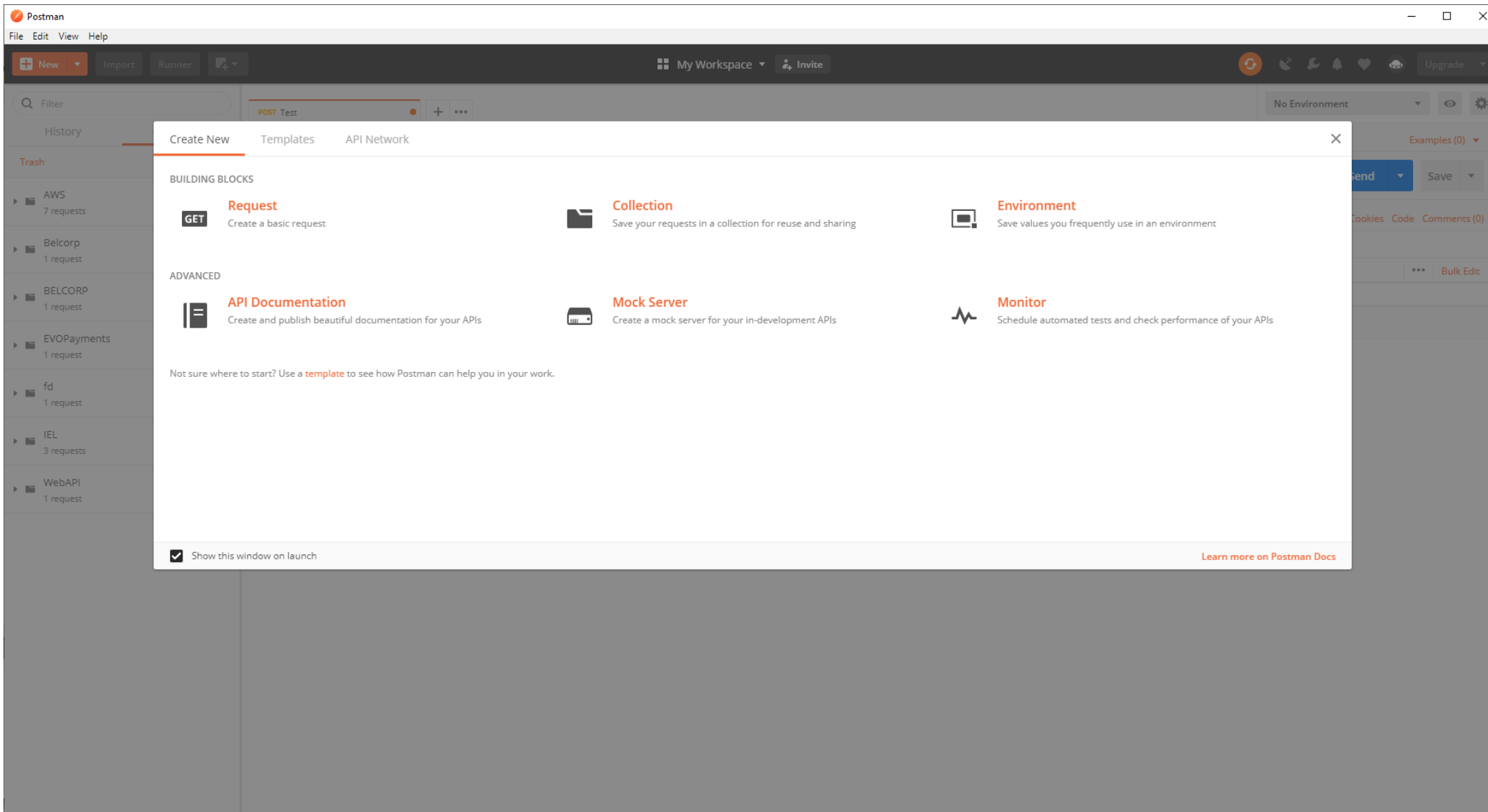
WebService.API WebService.API.Controllers.MemberController Get()

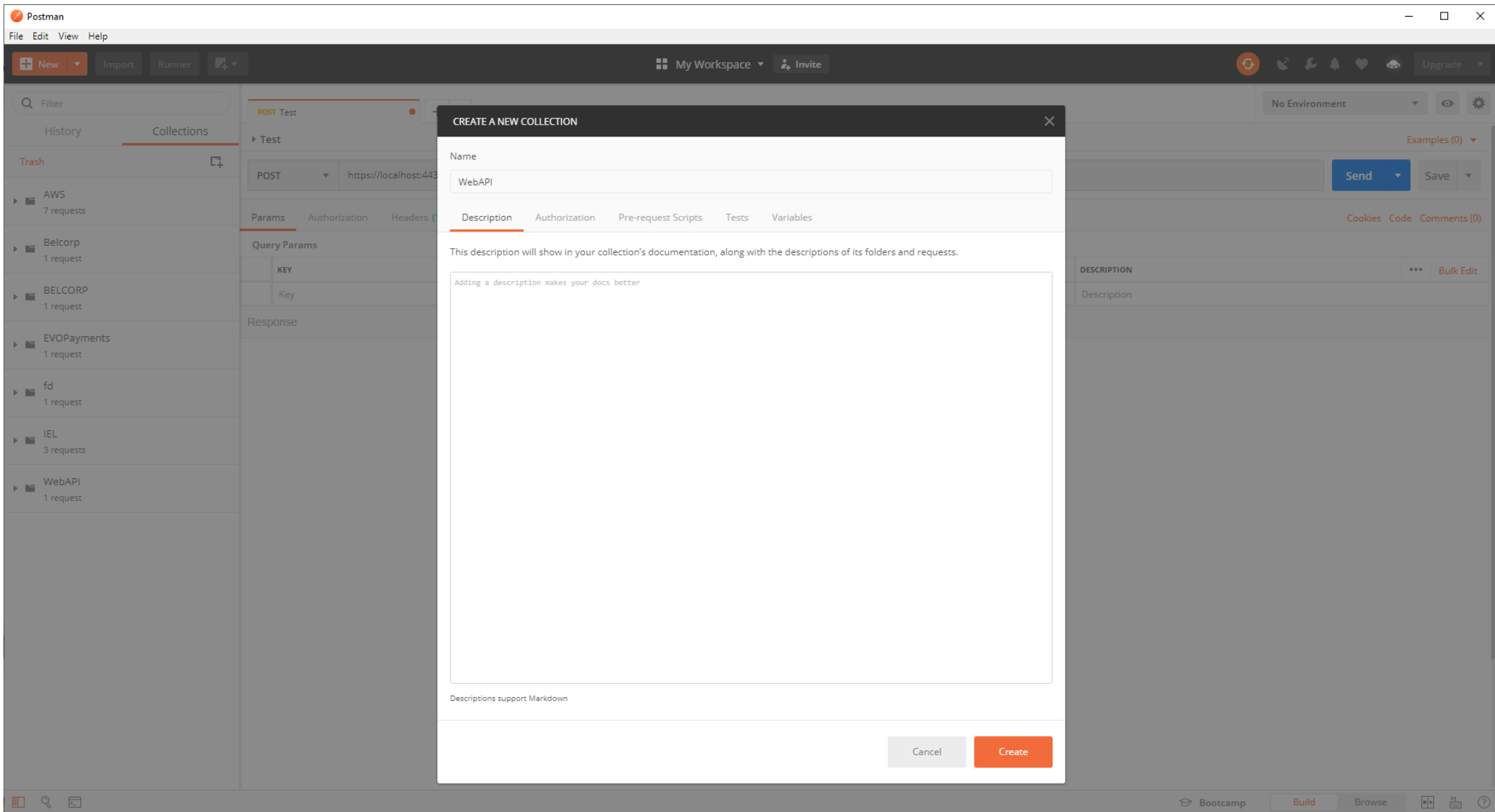
```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using Microsoft.AspNetCore.Mvc;
6
7 namespace WebService.API.Controllers
8 {
9     [Route("api/[controller]")]
10    [ApiController]
11    public class MemberController : Controller
12    {
13        // GET api/member
14        [HttpGet]
15        public string Get()
16        {
17            return "Hello World!";
18        }
19
20        // GET api/member/5
21        [HttpGet("{id}")]
22        public ActionResult<string> Get(int id)
23        {
24            return "value " + id;
25        }
26
27        // POST api/member
28        [HttpPost]
29        public ActionResult<Models.Response> Post([FromBody] Models.Request value)
30        {
31
32            return new Models.Response() { Id = value.Id, Name = "Me", Department = "Information Science", Email = "me@mail.com" };
33        }
34    }
35 }
```

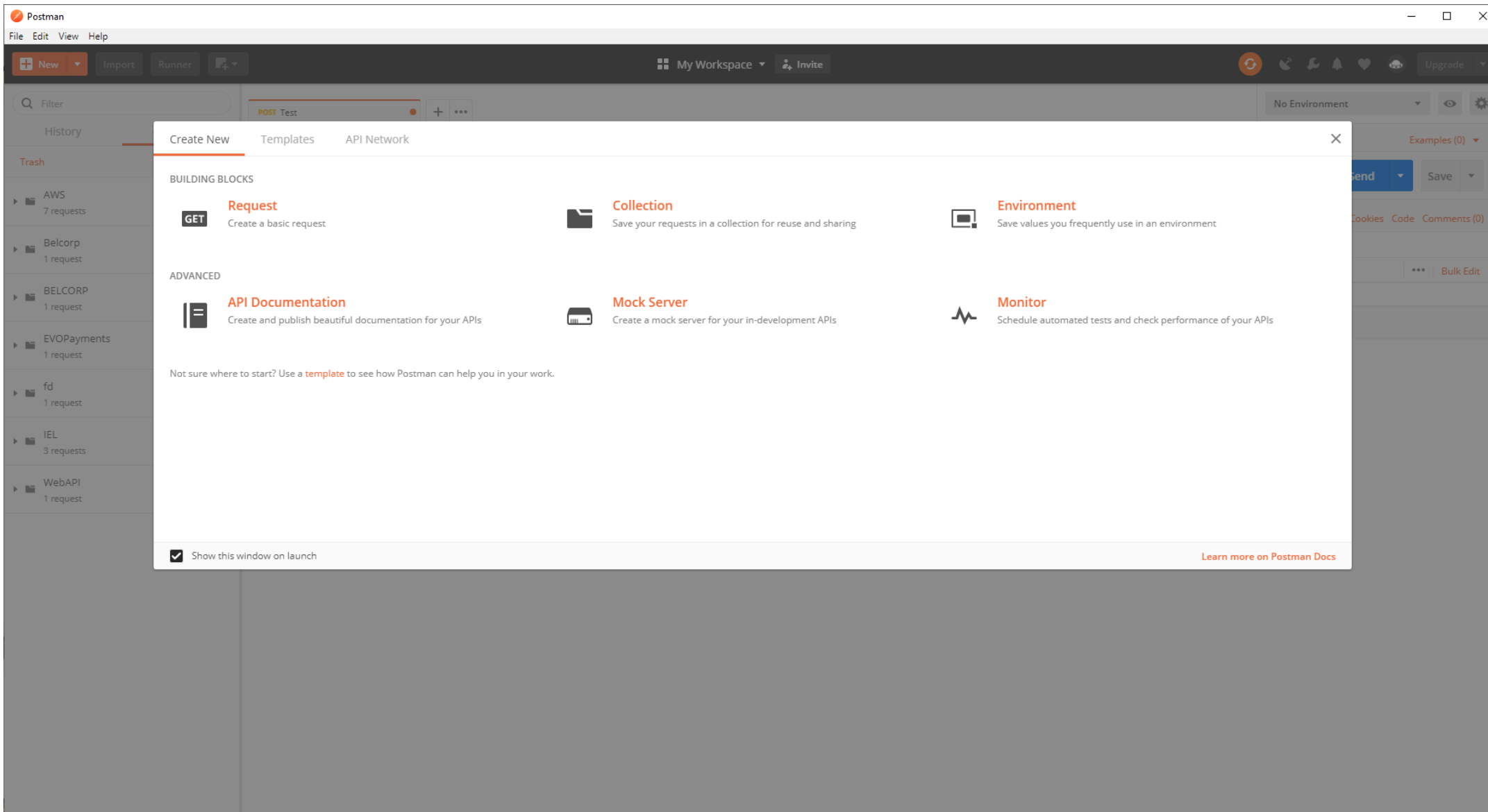
A stylized representation of a computer keyboard key. The key is depicted as a rounded square with a light gray outer border and a slightly darker gray inner square. The text 'F5' is printed in a large, bold, black sans-serif font in the upper-left portion of the key. The entire key is centered on a white background, which is itself set against a dark gray border.

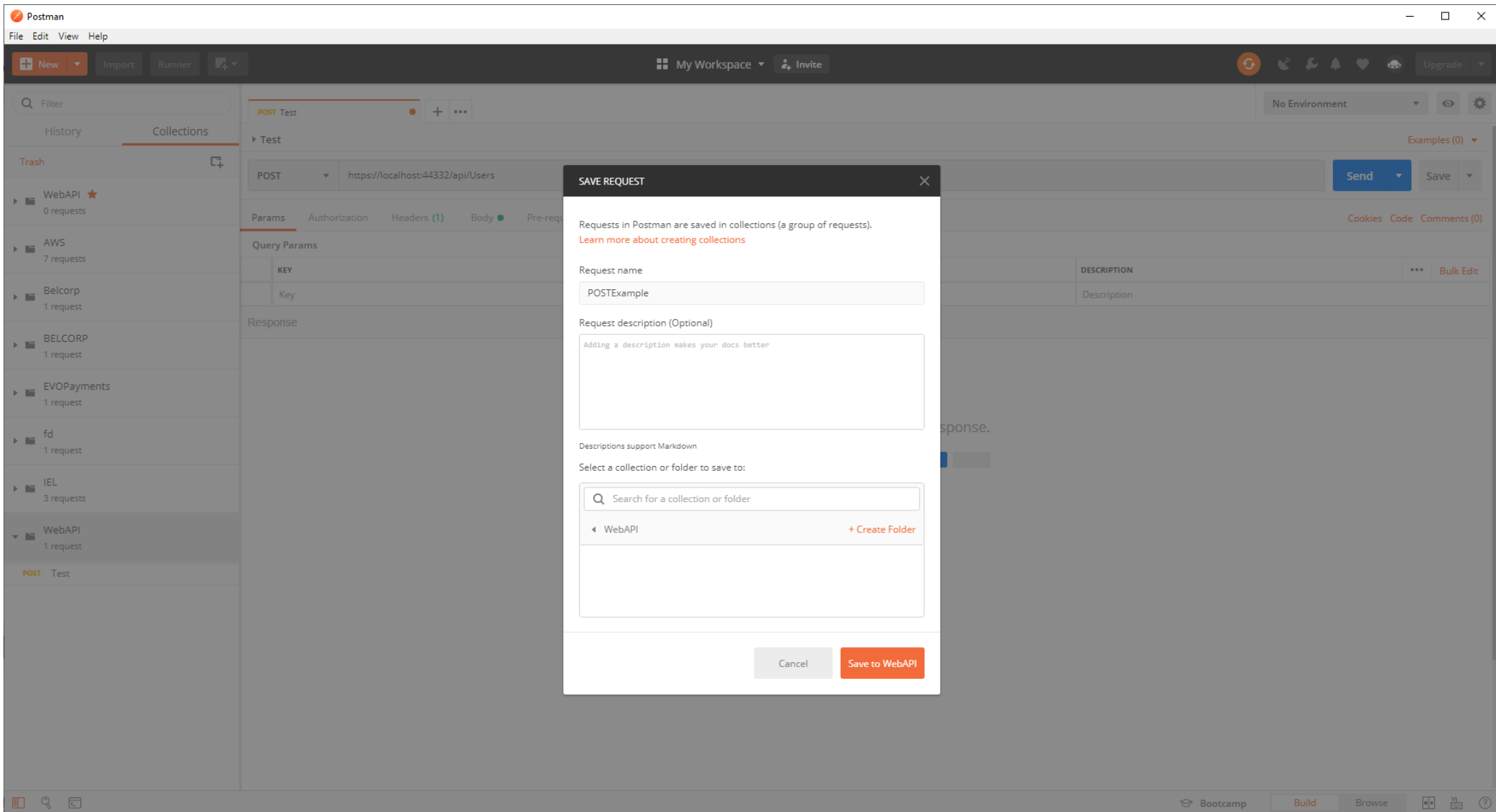
F5

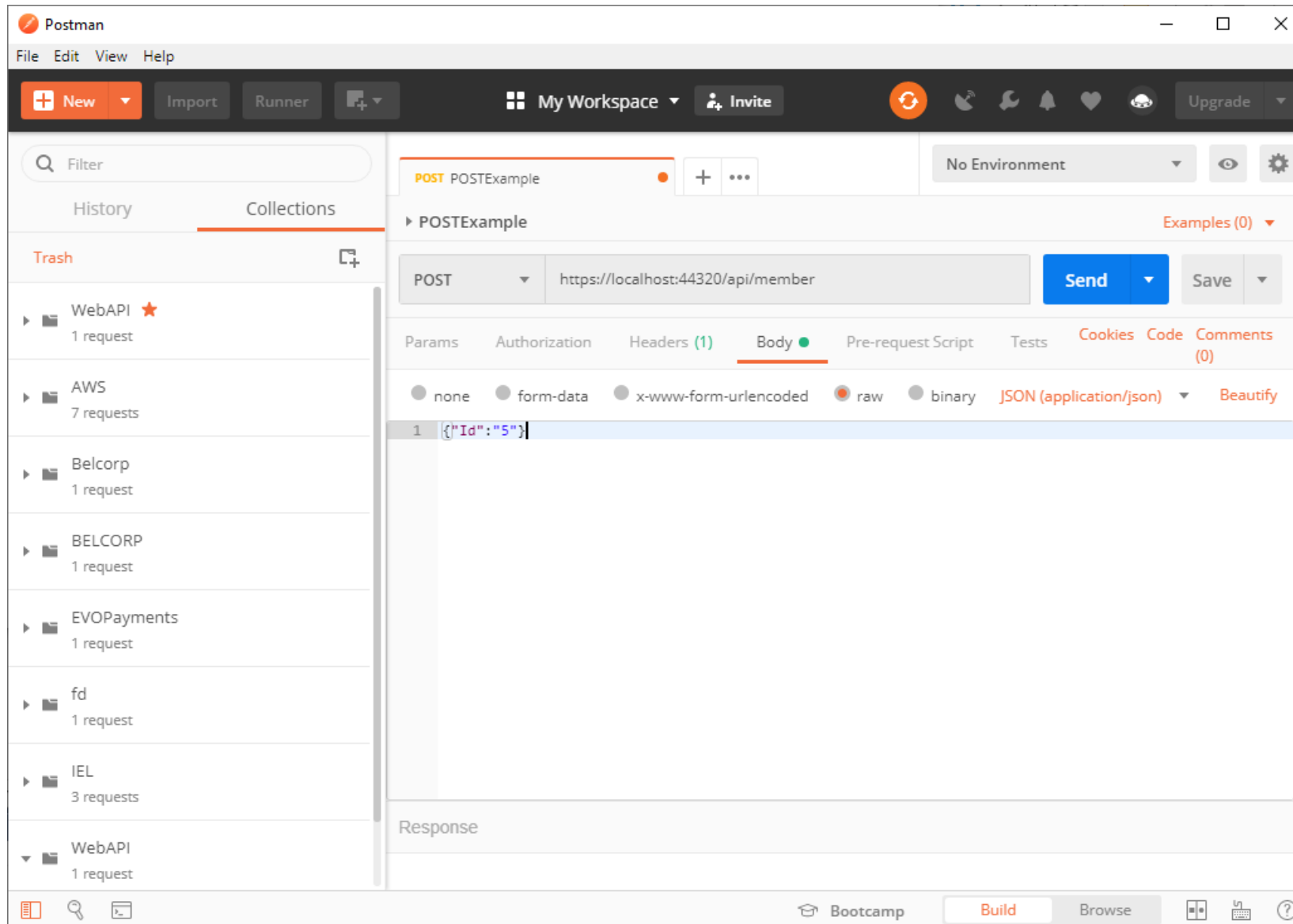












Postman

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My Workspace Invite

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Filter

History Collections

Trash

WebAPI 1 request

AWS 7 requests

Belcorp 1 request

BELCORP 1 request

EVOPayments 1 request

fd 1 request

IEL 3 requests

WebAPI 1 request

POST Test

POST POSTExample

POST https://localhost:44320/api/member

Send Save

Params Authorization Headers (1) Body Pre-request Script Tests

none form-data x-www-form-urlencoded raw binary JSON (application/json)

1 [{"Id": "5"}]

Body Cookies Headers (6) Test Results

Status: 200 OK Time: 1097 ms Size: 369 B Save Download

Pretty Raw Preview JSON

1 {
2 "id": 5,
3 "name": "Me",
4 "email": "me@mail.com",
5 "department": "Information Science"
6 }

Examples (0)

Cookies Code Comments (0)

Beautify

Bootcamp Build Browse

Help

MemberController.cs Response.cs WebService.API

WebService.API

WebService.API.Controllers.MemberCont Get()

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using Microsoft.AspNetCore.Mvc;
6 using MySql.Data.MySqlClient;
7
8 namespace WebService.API.Controllers
9 {
10     [Route("api/[controller]")]
11     [ApiController]
12     public class MemberController : Controller
13     {
14         // GET api/member
15         [HttpGet]
16         public string Get()
17         {
18             return "Hello World!";
19         }
20
21         // GET api/member/5
22         [HttpGet("{id}")]
23         public ActionResult<string> Get(int id)
```

100 %

Error List

Entire Solution 0 Errors 1 Warning 0 Messages Build + IntelliSense Search Error List

	Code	Description	Project	File	Line	Suppression St...
!	CS0219	The variable 'dbConnection' is assigned but its value is never used	WebService.API	MemberController.cs	32	Active

Error List Output

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WebService.API' (1 project)

- WebService.API
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Properties

WebService.API - Microsoft Visual Studio

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Debug Any CPU IIS Express

MemberController.cs* WebService.API

WebService.API.Controllers.MemberController Get()

```
1 using ...
7
8 namespace WebService.API.Controllers
9 {
10     [Route("api/[controller]")]
11     [ApiController]
12     public class MemberController : Controller
13     {
14         private string Host = "192.168.101.52";
15         private int Port = 3306;
16         private string DBName = "Workshop";
17         private string UserName = "User";
18         private string Password = "Pwd123";
19
20         // GET api/member
21         [HttpGet]
22         public string Get()...
26
27         // GET api/member/1
28         [HttpGet("{id}")]
29         public ActionResult<string> Get(int id)...
33
34         // POST api/member
35         [HttpPost]
36         public ActionResult<Models.Response> Post([FromBody] Models.Request value)
37         {
38             var Response = new Models.Response() { Id = value.Id };
39
40             string _connectionString = $"Data Source={Host};Port={Port};Database={DBName};User ID={UserName};Password={Password}";
41
42             using (MySQLConnection connection = new MySQLConnection(_connectionString))
43             {
44                 string Query = $"SELECT sName, sMail, sDepartment FROM members WHERE Id = {value.Id}";
45
46                 try
47                 {
48                     MySqlCommand dbCmd = new MySqlCommand(Query, connection);
49
```

100 %

Error List ...

Entire Solution 0 Errors 2 Warnings 0 of 5 Messages Build + IntelliSense Search Error List

Code	Description	Project	File	Line	Suppression St...
CS0168	The variable 'e' is declared but never used	WebService.API	MemberController.cs	63	Active
CS0168	The variable 'e' is declared but never used	WebService.API	MemberController.cs	94	Active

Error List ... Output

Ready Ln 21 Col 18 Ch 18 INS Add to Source Control

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WebService.API' (1 project)

- WebService.API
 - Connected Services
 - Dependencies
 - Properties
 - wwwroot
 - Controllers
 - MemberController.cs
 - Models
 - Request.cs
 - Response.cs
 - appsettings.json
 - Program.cs
 - Startup.cs

Solution Explorer Team Explorer

Properties

WebService.API - Microsoft Visual Studio

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Debug Any CPU IIS Express

MemberController.cs WebService.API

WebService.API WebService.API.Controllers.MemberController Post(Request value)

```
36 public ActionResult<Models.Response> Post([FromBody] Models.Request value)
37
38     var Response = new Models.Response() { Id = value.Id };
39
40     string _connectionString = $"Data Source={Host};Port={Port};Database={DBName};User ID={UserName};Password={Password}";
41
42     using (MySqlConnection connection = new MySqlConnection(_connectionString))
43     {
44         string Query = $"SELECT sName, sMail, sDepartment FROM members WHERE Id = {value.Id}";
45
46         try
47         {
48             MySqlCommand dbCmd = new MySqlCommand(Query, connection);
49
50             connection.Open();
51
52             MySqlDataReader reader = dbCmd.ExecuteReader();
53
54             if (reader.Read())
55             {
56                 Response.Name = reader.GetString("sName");
57                 Response.Email = reader.GetString("sMail");
58                 Response.Department = reader.GetString("sDepartment");
59             }
60
61             reader.Close();
62         }
63         catch (Exception e) { }
64         finally
65         {
66             connection.Close();
67             connection.Dispose();
68         }
69     }
70
71     return Response;
72
73 }
```

100 %

Error List

Entire Solution 0 Errors 2 Warnings 0 of 5 Messages Build + IntelliSense Search Error List

	Code	Description	Project	File	Line	Suppression St...
	CS0168	The variable 'e' is declared but never used	WebService.API	MemberController.cs	63	Active
	CS0168	The variable 'e' is declared but never used	WebService.API	MemberController.cs	94	Active

Error List Output

Ready Ln 38 Col 48 Ch 48 INS Add to Source Control

Solution Explorer

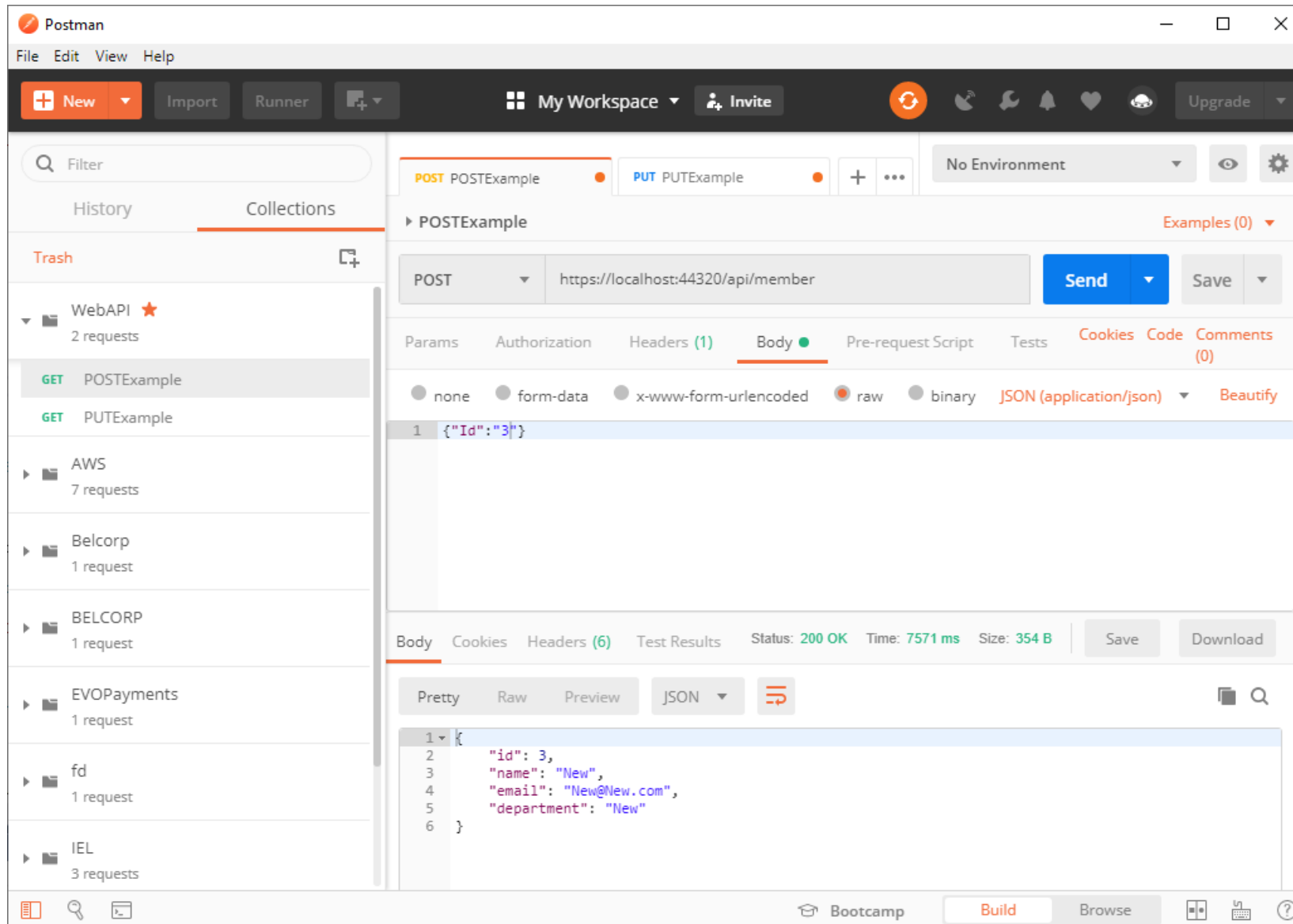
Search Solution Explorer (Ctrl+;)

Solution 'WebService.API' (1 project)

- WebService.API
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 - Models
 - Request.cs
 - Response.cs
 - appsettings.json
 - Program.cs
 - Startup.cs

Solution Explorer Team Explorer

Properties



VS Project @ GitHub

https://github.com/r0ch1n/vs_webapi_tutorial