



# ASP.NET CORE WEB API

Microsoft Blazor med koppling till ett WebApi

# WEB API

Ett api som hanterar CRUD för Customers

# Visual Studio 2019

## Open recent

As you use Visual Studio, any projects, folders, or files that you open will show up here for quick access.

You can pin anything that you open frequently so that it's always at the top of the list.

## Get started



### Clone or check out code

Get code from an online repository like GitHub or Azure DevOps



### Open a project or solution

Open a local Visual Studio project or .sln file



### Open a local folder

Navigate and edit code within any folder



### Create a new project

Choose a project template with code scaffolding to get started

[Continue without code →](#)



# Create a new project

Search for templates (Alt+S)



Clear all

## Recent project templates



Blazor App

C#



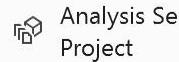
ASP.NET Core Web Application

C#

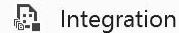


Console App (.NET Core)

C#



Analysis Services Multidimensional and Data Mining Project



Integration Services Project



Azure Functions

C#



Windows Forms App (.NET Framework)

Visual Basic



Console App (.NET Framework)

C#



Azure Resource Group

C#



ASP.NET Web Application (.NET Framework)

C#

C#

All platforms

All project types

C#

Console App (.NET Core)

A project for creating a command-line application that can run on .NET Core on Windows, Linux and MacOS.

C# Linux macOS Windows Console



ASP.NET Core Web Application

Project templates for creating ASP.NET Core web apps and web APIs for Windows, Linux and macOS using .NET Core or .NET Framework. Create web apps with Razor Pages, MVC, or Single Page Apps (SPA) using Angular, React, or React + Redux.

C# Linux macOS Windows Cloud Service Web



Blazor App

Project templates for creating Blazor apps that run on the server in an ASP.NET Core app or in the browser on WebAssembly. These templates can be used to build web apps with rich dynamic user interfaces (UIs).

C# Linux macOS Windows Cloud Web



Class Library (.NET Standard)

A project for creating a class library that targets .NET Standard.

C# Android iOS Linux macOS Windows Library

Back

Next



# Configure your new project

ASP.NET Core Web Application

C#

Linux

macOS

Windows

Cloud

Service

Web

Project name

WebApi

Location

...

Solution name 

BlazorWithWebApi

Place solution and project in the same directory

Back

Create

# Create a new ASP.NET Core web application

.NET Core ▼ ASP.NET Core 3.1 ▼



## Empty

An empty project template for creating an ASP.NET Core application. This template does not have any content in it.



## API

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.



## Web Application

A project template for creating an ASP.NET Core application with example ASP.NET Razor Pages content.



## Web Application (Model-View-Controller)

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



## Angular

A project template for creating an ASP.NET Core application with Angular



## React.js

[Get additional project templates](#)

## Authentication

No Authentication

[Change](#)

## Advanced

Configure for HTTPS

Enable Docker Support

(Requires Docker Desktop)

Linux ▼

Author: Microsoft

Source: .NET Core 3.1.1

Back

Create

WebApi

Overview

Connected Services

Service References

Publish

# ASP.NET Core

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

{ } Build Your App

Cloud icon Connect To The Cloud

Learn Your IDE

See our productivity guide

Write code faster

ASP.NET Core documentation

.NET application architecture

Publish your app to Azure

Get started with ASP.NET on Azure

TABORT

Solution Explorer

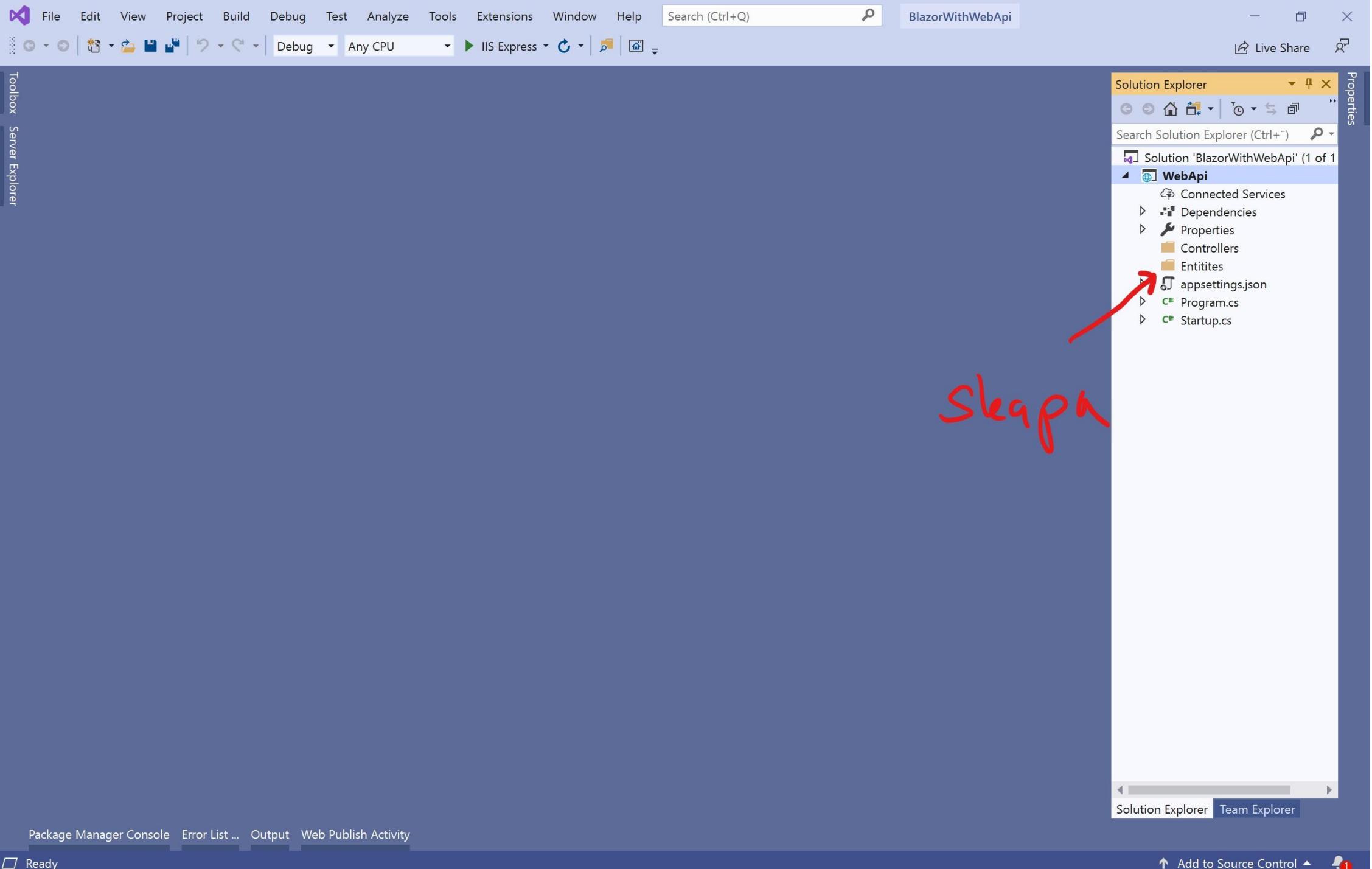
Search Solution Explorer (Ctrl+Shift+F)

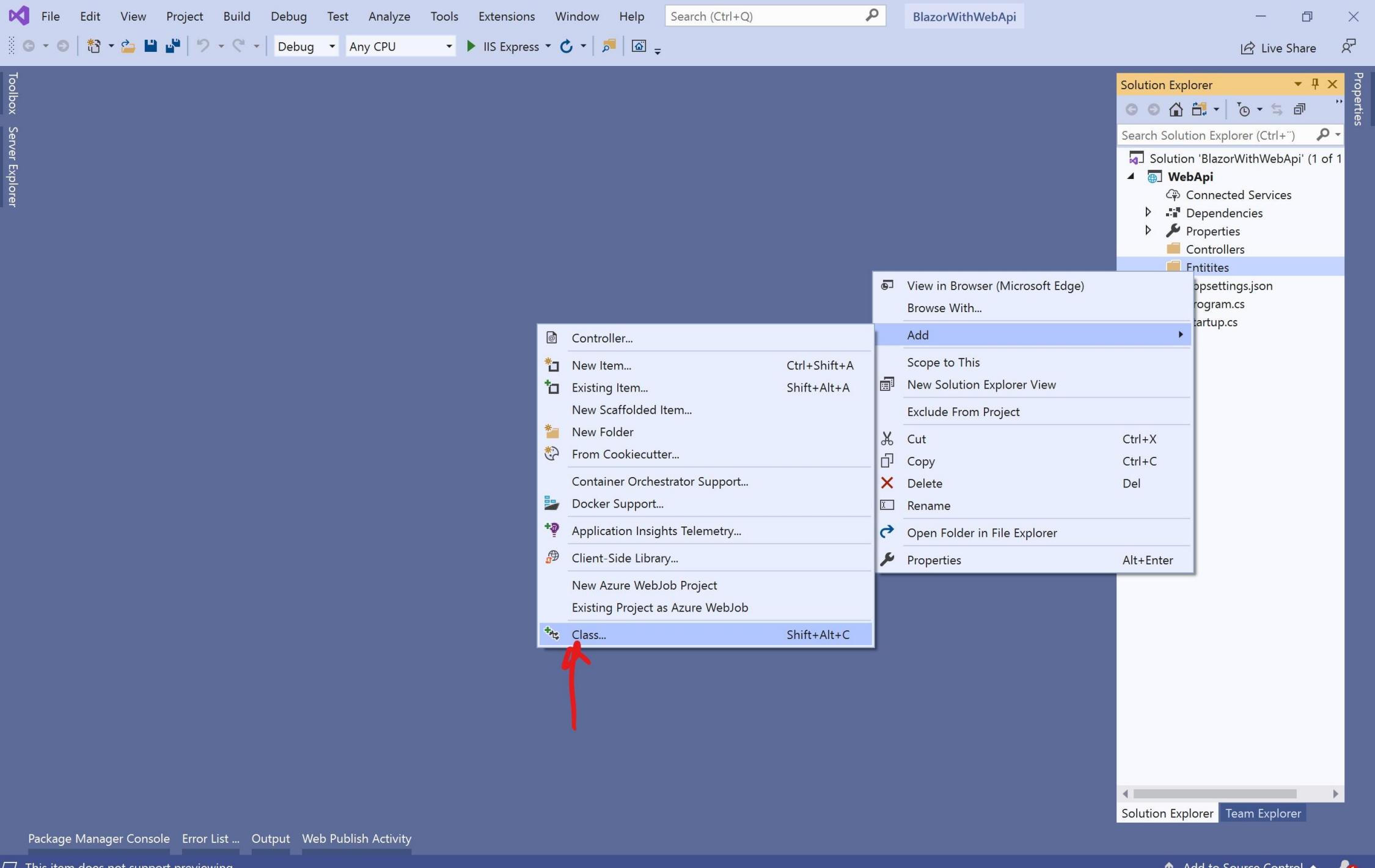
Solution 'BlazorWithWebApi' (1 of 1)

WebApi

- Connected Services
- Dependencies
- Properties
- Controllers
  - WeatherForecastController.cs
  - appsettings.json
  - Program.cs
  - Startup.cs
  - WeatherForecast.cs

Properties



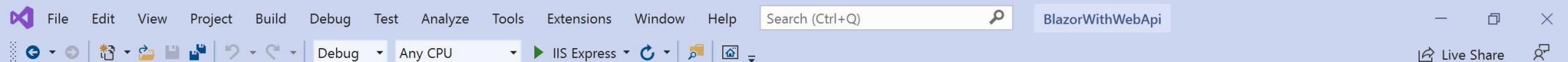


The screenshot shows the Microsoft Visual Studio IDE interface. The main window displays the `Customer.cs` file under the `WebApi` project. The code defines a `Customer` class with properties `Id`, `FirstName`, `LastName`, and `Email`, each annotated with `[Required]`. The `Customer.cs` file is located in the `Entities` folder. The `Properties` node in the Solution Explorer contains an `EntityAnnotations` file. Red arrows point from the `[Required]` annotations in the code to this file in the Solution Explorer.

```
Customer.cs
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  using System.ComponentModel.DataAnnotations;
7
8  namespace WebApi.Entities
9  {
10    public class Customer
11    {
12      [Required]
13      public int Id { get; set; }
14      [Required]
15      public string FirstName { get; set; }
16      [Required]
17      public string LastName { get; set; }
18      [Required]
19      public string Email { get; set; }
20    }
21  }
```

Solution Explorer

- Solution 'BlazorWithWebApi' (1 of 1)
  - WebApi
    - Connected Services
    - Dependencies
    - Properties
    - Controllers
    - Entities
      - Customer.cs
      - appsettings.json
      - Program.cs
      - Startup.cs



Solution Explorer

Search Solution Explorer (Ctrl+F) 🔎

Solution 'BlazorWithWebApi' (1 of 1)

WebApi

Build

Rebuild

Clean

View

Analyze and Code Cleanup

Pack

Publish...

Overview

Scope to This

New Solution Explorer View

File Nesting

Edit Project File

Add

Manage NuGet Packages...

Manage Client-Side Libraries...

Manage User Secrets

Set as StartUp Project

Debug

Cut Ctrl+X

Remove Del

Rename

Unload Project

Load Project Dependencies

Open Folder in File Explorer

Properties Alt+Enter

Connected Services

Dependencies

Properties

Controllers

Entities

\* Customer.cs

appsettings.json

Program.cs

Startup.cs

Properties

Toolbox

Server Explorer

Live Share

Package Manager Console

Error List ...

Output

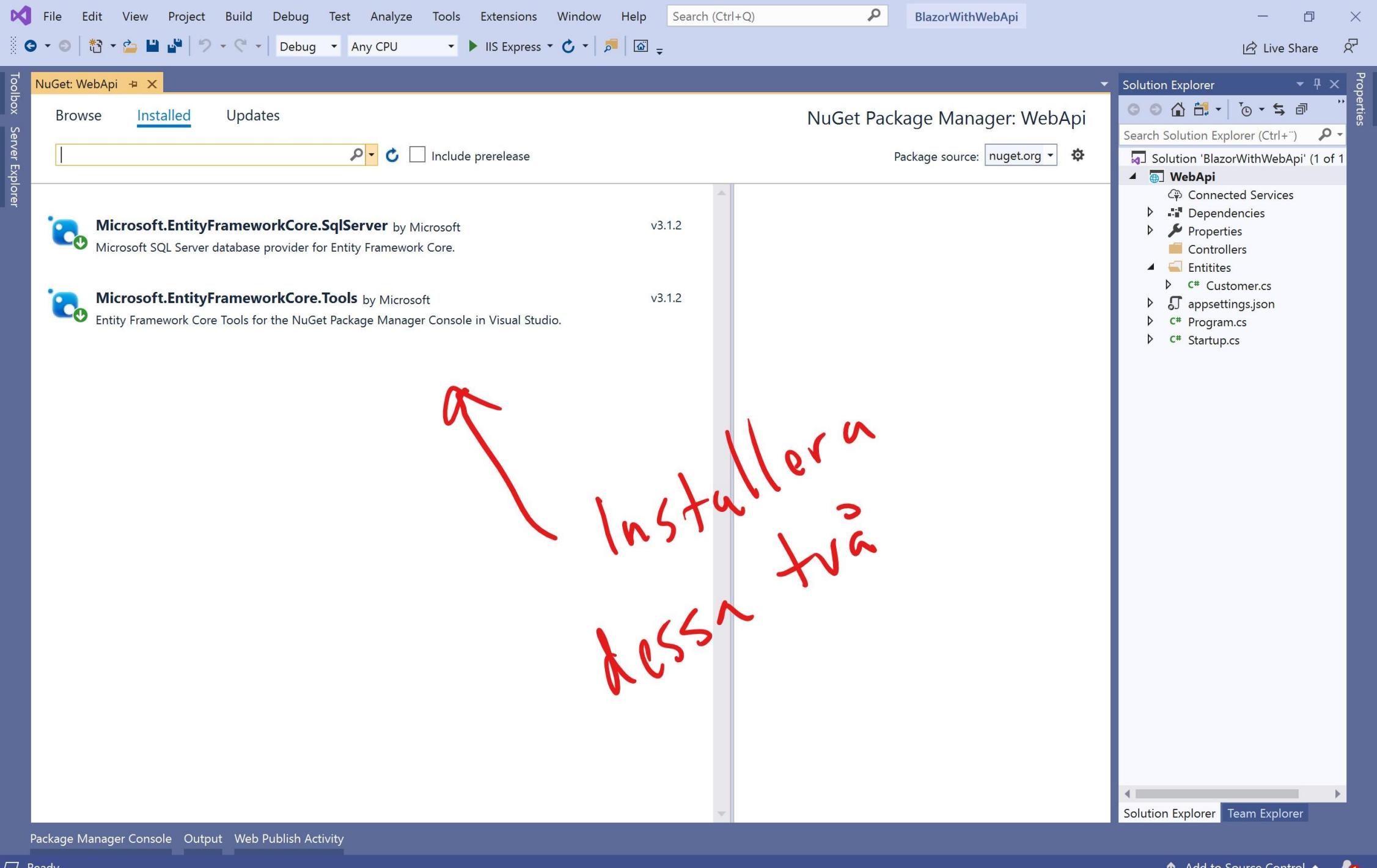
Web Publish Activity

Ready

Add to Source Control

Solution Explorer Team Explorer

A red arrow points from the text "Manage NuGet Packages..." in the context menu to the "Manage NuGet Packages..." link in the "Manage" section of the left sidebar.





Solution Explorer

Search Solution Explorer (Ctrl+Shift+F)

Solution 'BlazorWithWebApi' (1 of 1)

WebApi

- Connected Services
- Dependencies
- Properties
- Controllers
- Entities

Customer.cs  
appsettings.json  
Program.cs  
Startup.cs

View in Browser (Microsoft Edge)  
Browse With...

Add

- Scope to This
- New Solution Explorer View
- Exclude From Project
- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Delete (Del)
- Rename
- Open Folder in File Explorer
- Properties (Alt+Enter)

Controller...  
New Item... (Ctrl+Shift+A)  
Existing Item... (Shift+Alt+A)  
New Scaffolded Item...  
New Folder  
From Cookiecutter...  
Container Orchestrator Support...  
Docker Support...  
Application Insights Telemetry...  
Client-Side Library...  
New Azure WebJob Project  
Existing Project as Azure WebJob  
Class... (Shift+Alt+C)

Toolbox

Server Explorer

Package Manager Console Output Web Publish Activity

This item does not support previewing

Add to Source Control

Live Share

Solution Explorer Team Explorer

A screenshot of the Visual Studio IDE interface. The title bar shows 'BlazorWithWebApi'. The ribbon menu is visible at the top. In the center, the Solution Explorer window is open, displaying a project structure for 'BlazorWithWebApi' with a 'WebApi' folder containing 'Connected Services', 'Dependencies', 'Properties', 'Controllers', and 'Entities'. The 'Entities' folder is selected and highlighted with a blue border. A context menu is open over the 'Entities' folder, listing options like 'View in Browser (Microsoft Edge)', 'Add', 'Scope to This', etc. At the bottom of the 'Add' submenu, the 'Class...' option is highlighted with a blue background and a red arrow points upwards towards it from the bottom left. The status bar at the bottom shows 'Package Manager Console', 'Output', 'Web Publish Activity', and other status information.

DataContext.cs\*

WebApi

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  using Microsoft.EntityFrameworkCore;
7
8  namespace WebApi.Entities
9  {
10    public class DataContext : DbContext
11    {
12      public DataContext(DbContextOptions<DataContext> options) : base(options)
13      {
14      }
15
16      public DbSet<Customer> Customers { get; set; }
17    }
18  }
```

Loss till

Om du ska ha fler tabeller  
lägg in fler DbSet

138 % No issues found

Package Manager Console Output Web Publish Activity

Ln: 6 Ch: 37 SPC CRLF

Solution Explorer Team Explorer

Live Share

Toolbox Server Explorer

Solution Explorer

Properties

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (1 of 1)

WebApi

- Connected Services
- Dependencies
- Properties
- Controllers
- Entities
  - Customer.cs
  - DataContext.cs
- appsettings.json
- Program.cs
- Startup.cs

The screenshot shows the Visual Studio IDE interface with the following details:

- Toolbar:** File, Edit, View, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help.
- Search Bar:** Search (Ctrl+Q).
- Solution Explorer:** Shows the solution 'BlazorWithWebApi' (1 of 1) with a single project 'WebApi'. The 'appsettings.json' file is selected and highlighted in blue.
- Properties:** Properties pane is visible on the right.
- Editor:** The 'appsettings.json' file is open in the main editor area. The schema 'http://json.schemastore.org/appsettings' is listed at the top. The JSON content includes configuration for logging, allowed hosts, and connection strings. A red arrow points from the bottom left towards the 'Logging' section, and another red arrow points from the bottom right towards the 'ConnectionString' entry.
- Bottom Status Bar:** Shows '125 %' zoom, 'No issues found', line number 'Ln: 11', character number 'Ch: 75', and other status indicators.
- Bottom Navigation:** Package Manager Console, Output, Web Publish Activity, Solution Explorer, Team Explorer.

```
1 {
2   "Logging": {
3     "LogLevel": {
4       "Default": "Information",
5       "Microsoft": "Warning",
6       "Microsoft.Hosting.Lifetime": "Information"
7     }
8   },
9   "AllowedHosts": "*",
10  "ConnectionStrings": {
11    "SqlConnection": "server=(localdb)\\MSSQLLocalDB;database=blazerwebapidb;Integrated Security=true"
12  }
13}
14
```

Handwritten annotations in red:

- A large red arrow points upwards from the bottom left towards the 'Logging' section of the JSON code.
- The word 'Tags + 11' is written diagonally below the first red arrow.
- A small red arrow points upwards from the bottom right towards the 'ConnectionString' entry in the JSON code.

Startup.cs\* X

WebApi

WebApi.Startup

Startup(IConfiguration configuration)

Logs XN

```
11  using Microsoft.Extensions.Logging;
12
13  using WebApi.Entities;
14  using Microsoft.EntityFrameworkCore;
15
16  namespace WebApi
17  {
18      public class Startup
19      {
20          public Startup(IConfiguration configuration)
21          {
22              Configuration = configuration;
23          }
24
25          public IConfiguration Configuration { get; }
26
27          // This method gets called by the runtime. Use this method to add services to the container.
28          public void ConfigureServices(IServiceCollection services)
29          {
30              services.AddControllers();
31
32              services.AddCors();
33              services.AddDbContext<DataContext>(options =>
34                  options.UseSqlServer(Configuration.GetConnectionString("SqlConnection")));
35
36          }
37
38          // This method gets called by the runtime. Use this method to configure the HTTP request pipeline.

```

125 % No issues found

Package Manager Console Output Web Publish Activity

Live Share

Solution Explorer

Properties

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (1 of 1)

WebApi

- Connected Services
- Dependencies
- Properties
- Controllers
- Entities
  - Customer.cs
  - DataContext.cs
- appsettings.json
- Program.cs
- Startup.cs

Add to Source Control

Ready

1



Startup.cs\* ▾ X

WebApi

```
32     services.AddCors();
33     services.AddDbContext<DataContext>(options =>
34         options.UseSqlServer(Configuration.GetConnectionString("SqlConnection")));
35     }
36
37
38     // This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
39     public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
40     {
41         if (env.IsDevelopment())
42         {
43             app.UseDeveloperExceptionPage();
44         }
45
46         app.UseRouting();
47
48         app.UseAuthorization();
49
50         app.UseCors(options => options.AllowAnyOrigin().AllowAnyMethod().AllowAnyHeader());
51
52
53         app.UseEndpoints(endpoints =>
54         {
55             endpoints.MapControllers();
56         });
57
58     }
59
60 }
```

Properties

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (1 of 1)

WebApi

- Connected Services
- Dependencies
- Properties
- Controllers
- Entities
  - Customer.cs
  - DataContext.cs
- appsettings.json
- Program.cs
- Startup.cs

Tags

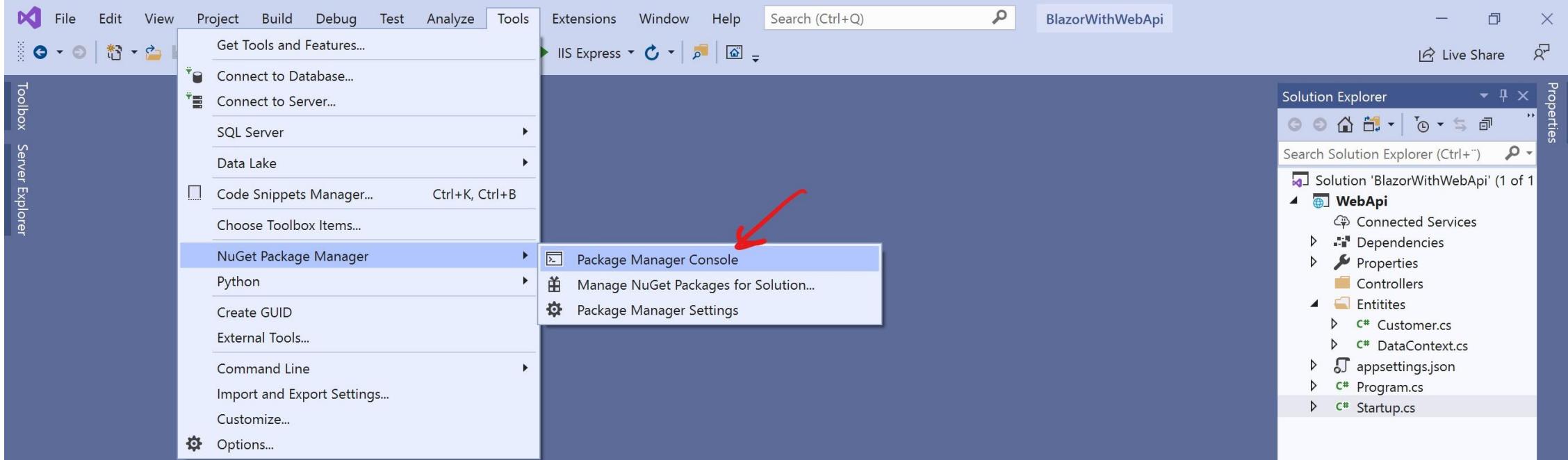
LN: 50 Ch: 96 SPC CRLF

125 % No issues found

Solution Explorer Team Explorer

Package Manager Console Output Web Publish Activity

Ready Add to Source Control



Package Manager Console

Package source: All Default project: WebApi

Each package is licensed to you by its owner. NuGet is not responsible for, nor does it grant any licenses to, third-party packages. Some packages may include dependencies which are governed by additional licenses. Follow the package source (feed) URL to determine any dependencies.

Package Manager Console Host Version 5.4.0.6292

Type 'get-help NuGet' to see all available NuGet commands.

PM> Add-Migration initDb

(Code First)

← shriv

125% ↻

Package Manager Console Output Web Publish Activity



Toolbox      Server Explorer

20200311011301\_initDb.cs

WebApi

```
using Microsoft.EntityFrameworkCore.Migrations;
namespace WebApi.Migrations
{
    public partial class initDb : Migration
    {
        protected override void Up(MigrationBuilder migrationBuilder)
        {
            migrationBuilder.CreateTable(
                name: "Customers",
                columns: table => new
                {
                    Id = table.Column<int>(nullable: false)
                        .Annotation("SqlServer:Identity", "1, 1"),
                    FirstName = table.Column<string>(nullable: false),
                    LastName = table.Column<string>(nullable: false),
                    Email = table.Column<string>(nullable: false)
                },
                constraints: table =>
            );
        }
    }
}
```

Solution Explorer

Properties

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (1 of 1)

WebApi

- Connected Services
- Dependencies
- Properties
- Controllers
- Entities
  - Customer.cs
  - DataContext.cs
- Migrations
  - 20200311011301\_initDb.cs
    - initDb
  - DataContextModelSnapshot
  - appsettings.json
  - Program.cs
  - Startup.cs

Package Manager Console

Package source: All Default project: WebApi

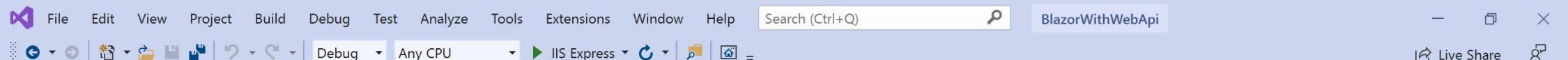
Package Manager Console Host Version 5.4.0.6292

Type 'get-help NuGet' to see all available NuGet commands.

PM> Add-Migration initDb  
Build started...  
Build succeeded.  
To undo this action, use Remove-Migration.  
PM> Update-Database

125 %

skript for all "shapen" or "update" database



The screenshot shows the Visual Studio 2022 IDE with a solution named "BlazorWithWebApi".

A red arrow points from the "Controller..." item in the context menu to the "Controllers" folder in the Solution Explorer.

**Solution Explorer:**

- BlazorWithWebApi (1 of 1)
  - WebApi
    - Connected Services
    - Dependencies
    - Properties
    - Controllers (selected)
    - Entities
    - Migrations
    - appsettings.json
    - Program.cs
    - Startup.cs

**Context Menu (Open at Controllers):**

- Controller... (selected)
- New Item... (Ctrl+Shift+A)
- Existing Item... (Shift+Alt+A)
- New Scaffolded Item...
- New Folder
- From Cookiecutter...
- Container Orchestrator Support...
- Docker Support...
- Application Insights Telemetry...
- Client-Side Library...
- New Azure WebJob Project
- Existing Project as Azure WebJob
- Class... (Shift+Alt+C)

**Properties View:**

- View in Browser (Microsoft Edge)
- Browse With...
- Add (selected)
- Scope to This
- New Solution Explorer View
- Exclude From Project
- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Delete (Del)
- Rename
- Open Folder in File Explorer
- Properties (Alt+Enter)

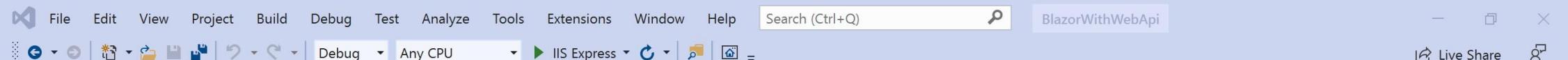
**Bottom Navigation:**

Solution Explorer | Team Explorer

Output Web Publish Activity

This item does not support previewing

Add to Source Control ▾



BlazorWithWebApi

Live Share

Solution Explorer

Properties

Add New Scaffolded Item

Installed

Common Controller

- MVC Controller - Empty
- MVC Controller with read/write actions
- MVC Controller with views, using Entity Framework
- API Controller - Empty
- API Controller with read/write actions
- API Controller with actions, using Entity Framework

API Controller with actions, using Entity Framework  
by Microsoft v1.0.0.0  
An API controller with REST actions to create, read, update, delete, and list entities from an Entity Framework data context.  
Id: ApiControllerWithContextScaffolder

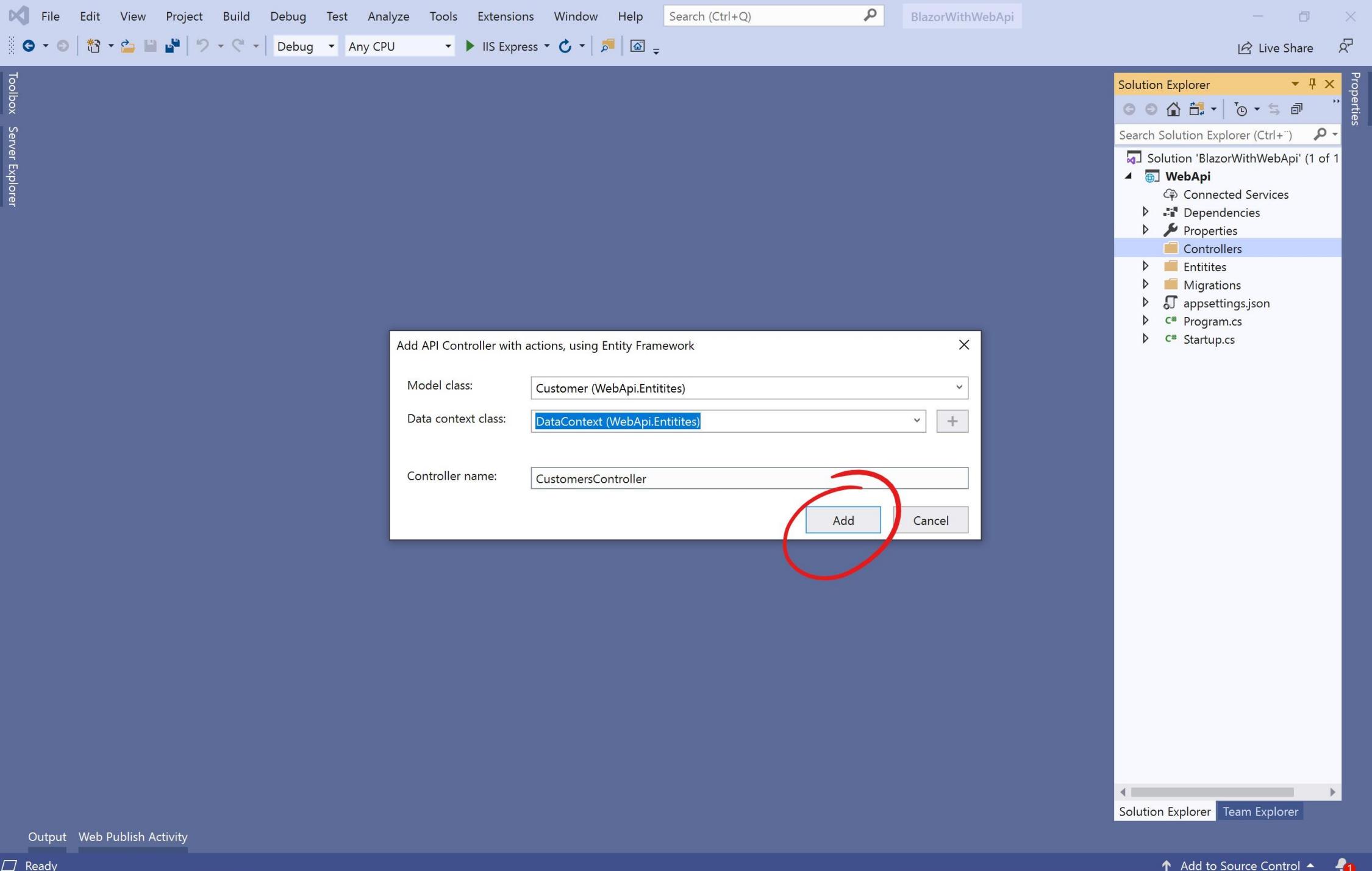
Click here to go online and find more scaffolding extensions.

Add Cancel

Output Web Publish Activity

Ready Add to Source Control

The screenshot shows the 'Add New Scaffolded Item' dialog in Visual Studio. A red arrow points to the 'API Controller with actions, using Entity Framework' item in the list. A red circle highlights the 'Add' button at the bottom right of the dialog. The 'Solution Explorer' and 'Properties' panes are visible on the right side of the IDE.



BlazorWithWebApi

Live Share

CustomersController.cs\*

WebApi

WebApi.Controllers.CustomersController

CustomerExists(int id)

```
94     {
95         return NotFound();
96     }
97
98     _context.Customers.Remove(customer);
99     await _context.SaveChangesAsync();
100
101    return customer;
102}
103
104
105 [HttpDelete("all")]
106 public async Task<ActionResult> DeleteAllCustomers()
107 {
108     foreach (var c in _context.Customers)
109     {
110         _context.Customers.Remove(c);
111     }
112
113     await _context.SaveChangesAsync();
114
115     return Ok();
116 }
117
118
119
120
121
122
123
124
```

Tags till alla kunder som finns i databasen  
localhost:5001/api/customers/all  
Observar att HTTP Delete

Toolbox

Server Explorer

Solution Explorer

Properties

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (1 of 1)

WebApi

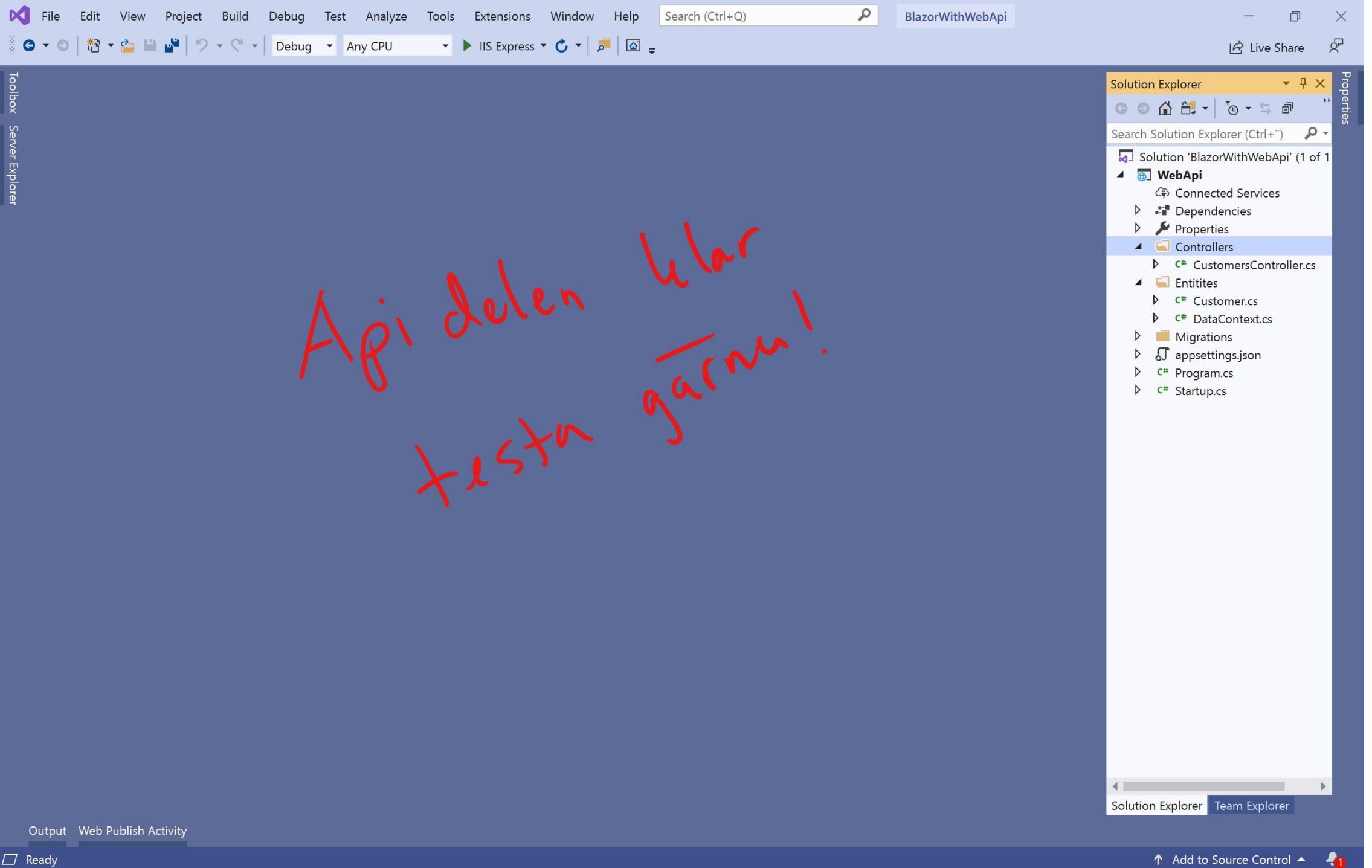
- Connected Services
- Dependencies
- Properties
- Controllers
- Entities
- Migrations
- appsettings.json
- Program.cs
- Startup.cs

Output Web Publish Activity

Item(s) Saved

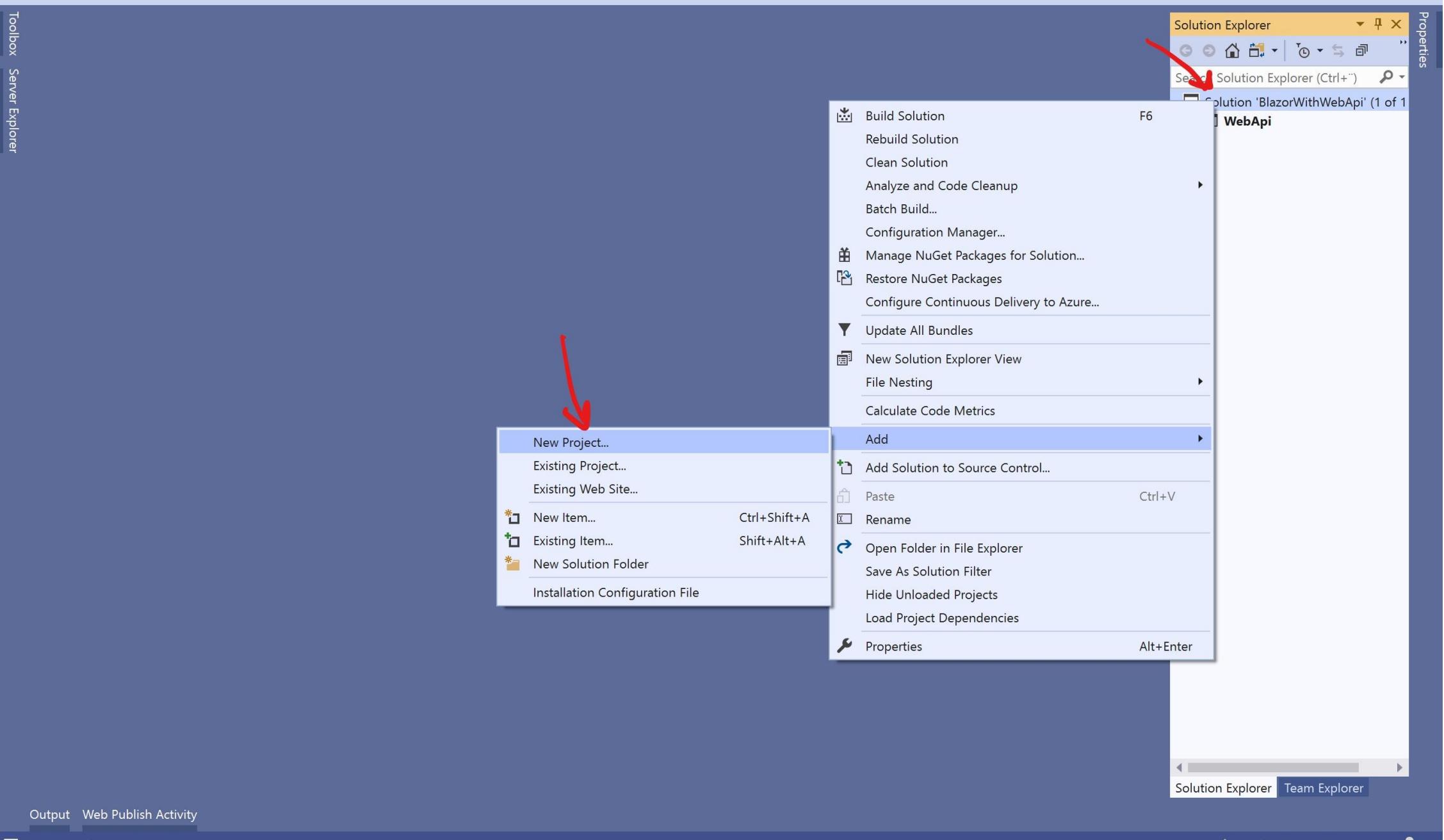
Add to Source Control

Ln: 121 Ch: 9 SPC CRLF



# **Microsoft Blazor**

**Blazor är Microsoft nya (asp.net) som körs på renderas i webbläsaren  
Konkurrent till Angular, React JS och Vue JS**



File Edit View Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q) BlazorWithWebApi Live Share

Toolbox Server Explorer

# Add a new project

Recent project templates

- ASP.NET Core Web Application C#
- Blazor App C#
- Console App (.NET Core) C#
- Analysis Services Multidimensional and Data Mining Project
- Integration Services Project
- Azure Functions C#
- Windows Forms App (.NET Framework) Visual Basic
- Console App (.NET Framework) C#
- Azure Resource Group C#
- ASP.NET Web Application (.NET Framework) C#

Search for templates (Alt+S)

C# All platforms All project types

Console App (.NET Core)  
A project for creating a command-line application that can run on .NET Core on Windows, Linux and MacOS.  
C# Linux macOS Windows Console

ASP.NET Core Web Application  
Project templates for creating ASP.NET Core web apps and web APIs for Windows, Linux and macOS using .NET Core or .NET Framework. Create web apps with Razor Pages, MVC, or Single Page Apps (SPA) using Angular, React, or React + Redux.  
C# Linux macOS Windows Cloud Service Web

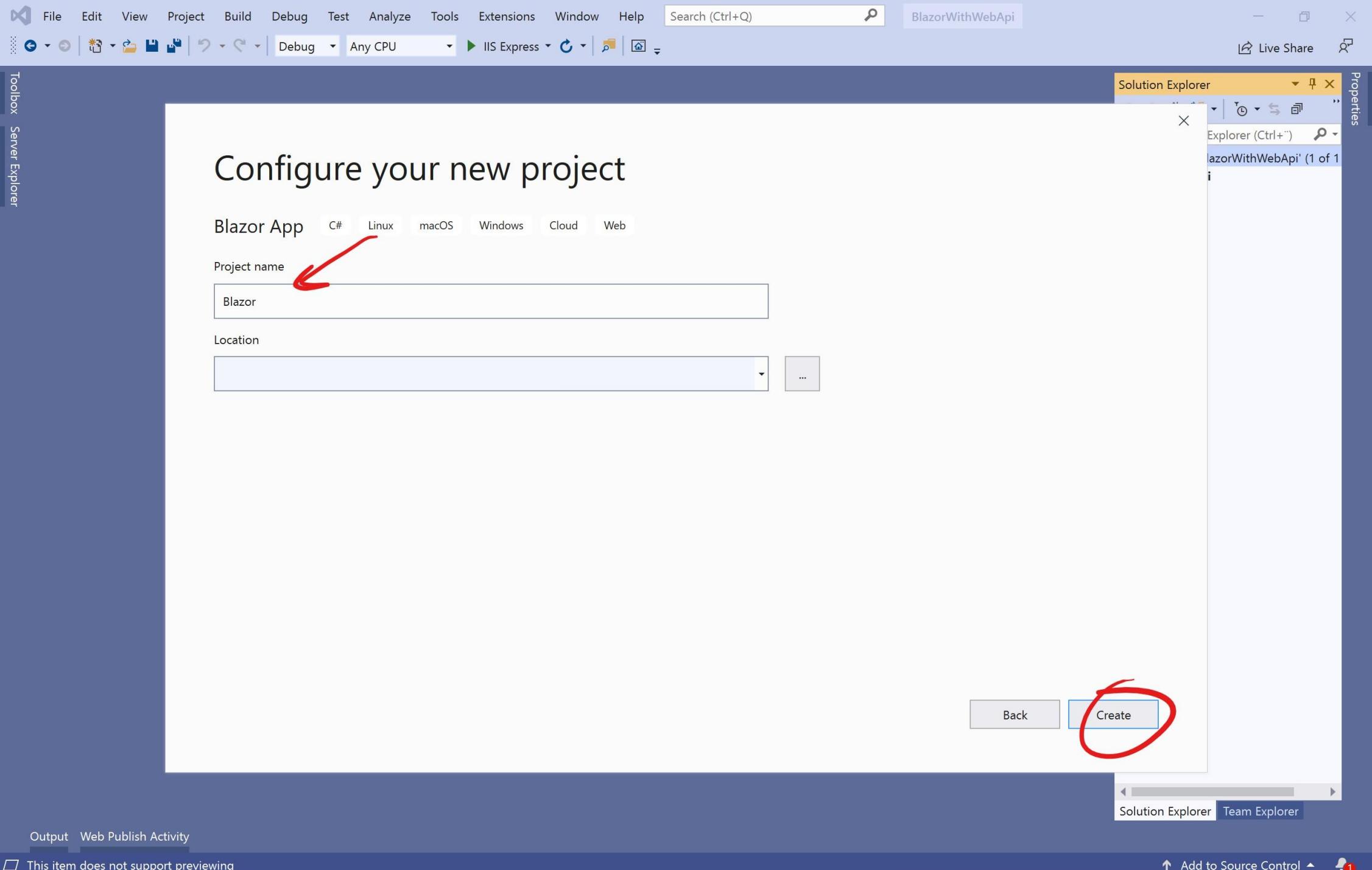
Blazor App  
Project templates for creating Blazor apps that run on the server in an ASP.NET Core app or in the browser on WebAssembly. These templates can be used to build web apps with rich dynamic user interfaces (UIs).  
C# Linux macOS Windows Cloud Web

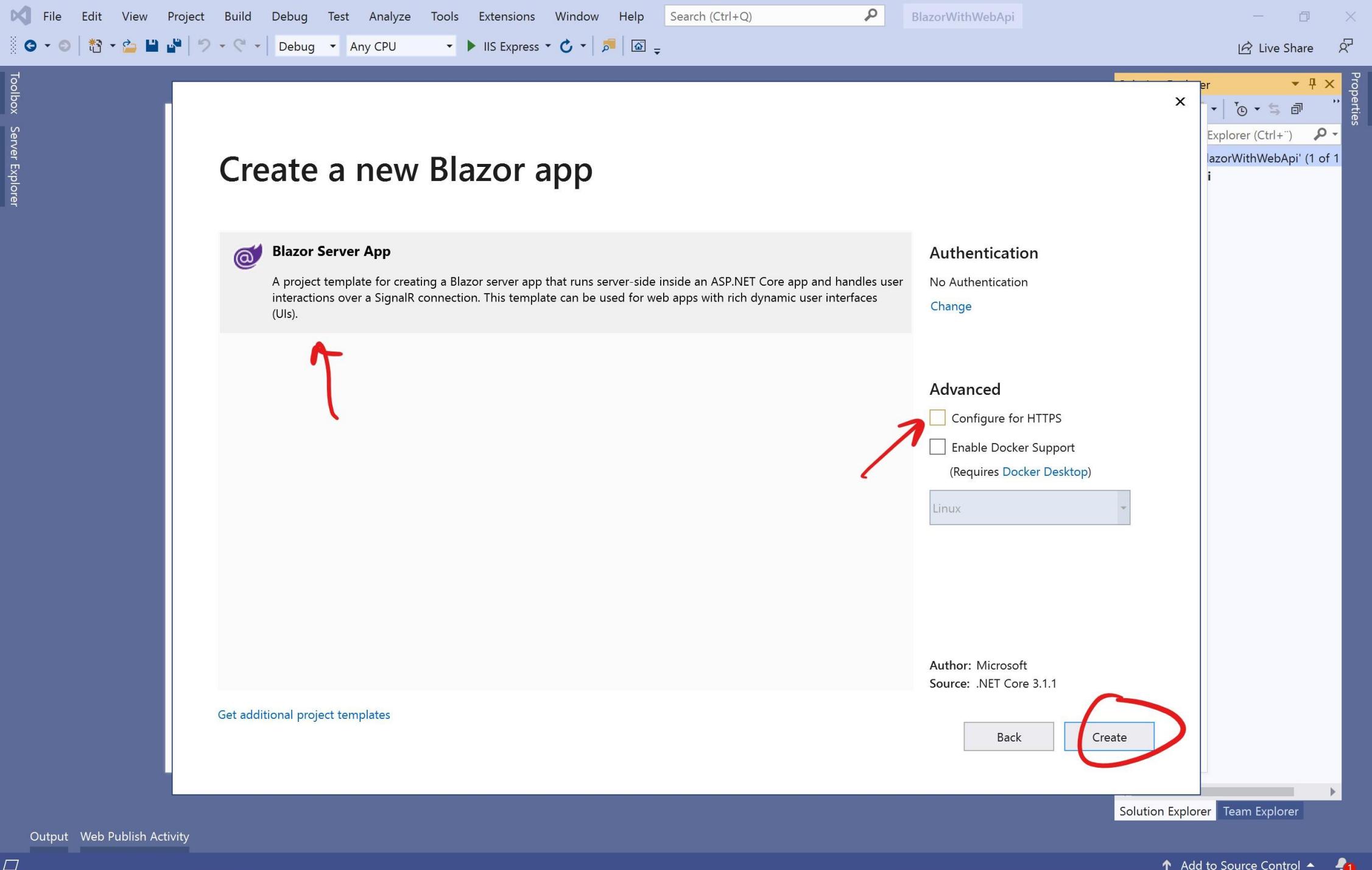
Class Library (.NET Standard)  
A project for creating a class library that targets .NET Standard.  
C# Android iOS Linux macOS Windows Library

Next

Solution Explorer Team Explorer

This item does not support previewing Add to Source Control





NuGet Gallery | Microsoft.AspNetCore.Blazor.HttpClient

nuget Packages Upload Statistics Documentation Downloads Blog Sign in

Search for packages... 



# Microsoft.AspNetCore.Blazor.HttpClient

3.2.0-preview2.20160.5 

Provides experimental support for using System.Text.Json with HttpClient. Intended for use with Blazor running under WebAssembly.

This package was built from the source code at

<https://github.com/aspnet/AspNetCore/tree/58bbbb747e6d1c034c6f7eadabf8c91d5408c76b>

 This is a prerelease version of Microsoft.AspNetCore.Blazor.HttpClient.

[Package Manager](#)

.NET CLI

PackageReference

Paket CLI

PM> Install-Package Microsoft.AspNetCore.Blazor.HttpClient -Version 3.2.0-preview2.20160.5 

> Dependencies

> GitHub Usage

✓ Version History

 kopieren

Ga in ga folgende adres

 last updated 2 hours ago

 <https://asp.net/>

 Source repository

 Dependent repositories (26+)

 License: Apache-2.0

 Contact owners

 Report

 Download package (44.71 KB)

## Statistics

 220,036 total downloads

 0 downloads of current version

 1,047 downloads per day (avg)

[View full stats](#)

Feedback

The screenshot shows the Visual Studio IDE interface with the following components:

- Top Bar:** File, Edit, View, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, Search (Ctrl+Q), BlazorWithWebApi.
- Solution Explorer:** Shows the Solution 'BlazorWithWebApi' (2 of 2) containing Blazor, Connected Services, Dependencies, Properties, wwwroot, Data, Pages, Shared, \_Imports.razor, App.razor, appsettings.json, Program.cs, and Startup.cs. A WebApi project is also listed under Blazor.
- Toolbox:** Blazor, Overview, Connected Services, Service Reference, Publish, NuGet Package Manager (selected), Python, Create GUID, External Tools..., Command Line, Import and Export Settings..., Customize..., Options... .NET application architecture documentation.
- Central Area:** A message says "create your first application and extend it to the cloud." with a red arrow pointing to the "Package Manager Console" button. Below it are links to "Connect To The Cloud", "Publish your app to Azure", "Get started with ASP.NET on Azure", "See our productivity guide", and "Write code faster".
- Bottom Bar:** Package Manager Console tab, Package source: All, Default project: WebApi (circled in red).
- Console Output:** PM> Add-Migration initDb  
Build started...  
Build succeeded.  
To undo this action, use Remove-Migration.  
PM> Update-Database  
Build started...  
Build succeeded.  
Done.  
PM> Install-Package Microsoft.AspNetCore.Blazor.HttpClient -Version 3.2.0-preview2.20160.5  
125 %
- Handwritten Annotations:**
  - A red arrow points from the "Default project: WebApi" dropdown in the bottom bar to the "Install-Package" command in the console, with the text "Bijtellen Blazor".
  - A red arrow points from the "Default project: WebApi" dropdown in the bottom bar to the "Install-Package" command in the console, with the text "Installieren Mistigors via Konsole hier!".

Startup.cs\* Blazor

Blazor

```
11  using Blazor.Data;
12  using System.Net.Http;
13
14  namespace Blazor
15  {
16      public class Startup
17      {
18          public Startup(IConfiguration configuration)
19          {
20              Configuration = configuration;
21          }
22
23          public IConfiguration Configuration { get; }
24
25
26          // This method gets called by the runtime. Use this method to add services to the container.
27          // For more information on how to configure your application, visit https://go.microsoft.com/fwlink/.
28          public void ConfigureServices(IServiceCollection services)
29          {
30              services.AddRazorPages();
31              services.AddServerSideBlazor();
32              services.AddSingleton<WeatherForecastService>(); tags till to boot
33
34              services.AddSingleton<HttpClient>();
35          }
36
37          // This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
38          public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
```

Blazor.Startup

ConfigureServices(IServiceCollection services)

Solution Explorer

Properties

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (2 of 2)

- Blazor
  - Connected Services
  - Dependencies
  - Properties
  - wwwroot
  - Data
  - Pages
  - Shared
    - \_Imports.razor
    - App.razor
  - appsettings.json
  - Program.cs
  - Startup.cs
- WebApi

Output Web Publish Activity

Ready Add to Source Control



Blazor

Blazor

```
Startup.cs  Blazor
32     services.AddSingleton<HttpClient>();
33 }
34
35 // This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
36 public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
37 {
38     if (env.IsDevelopment())
39     {
40         app.UseDeveloperExceptionPage();
41     }
42     else
43     {
44         app.UseExceptionHandler("/Error");
45     }
46
47     app.UseStaticFiles();
48
49     app.UseRouting();
50
51     app.UseEndpoints(endpoints =>
52     {
53         endpoints.MapBlazorHub();
54         endpoints.MapFallbackToPage("/_Host");
55     });
56
57 }
58
59 }
60
```

ConfigureServices(IServiceCollection services)

Search Solution Explorer (Ctrl+F) 🔎

Solution Explorer ▾ X

Properties

BlazorWithWebApi (2 of 2)

- Blazor
  - Connected Services
  - Dependencies
  - Properties
  - wwwroot
  - Data
    - WeatherForecast.cs
    - WeatherForecastService.cs
  - Pages
    - Host.cshtml
    - Counter.razor
    - Error.razor
    - FetchData.razor
    - Index.razor
  - Shared
    - Imports.razor
    - App.razor
  - appsettings.json
  - Program.cs
  - Startup.cs- WebApi

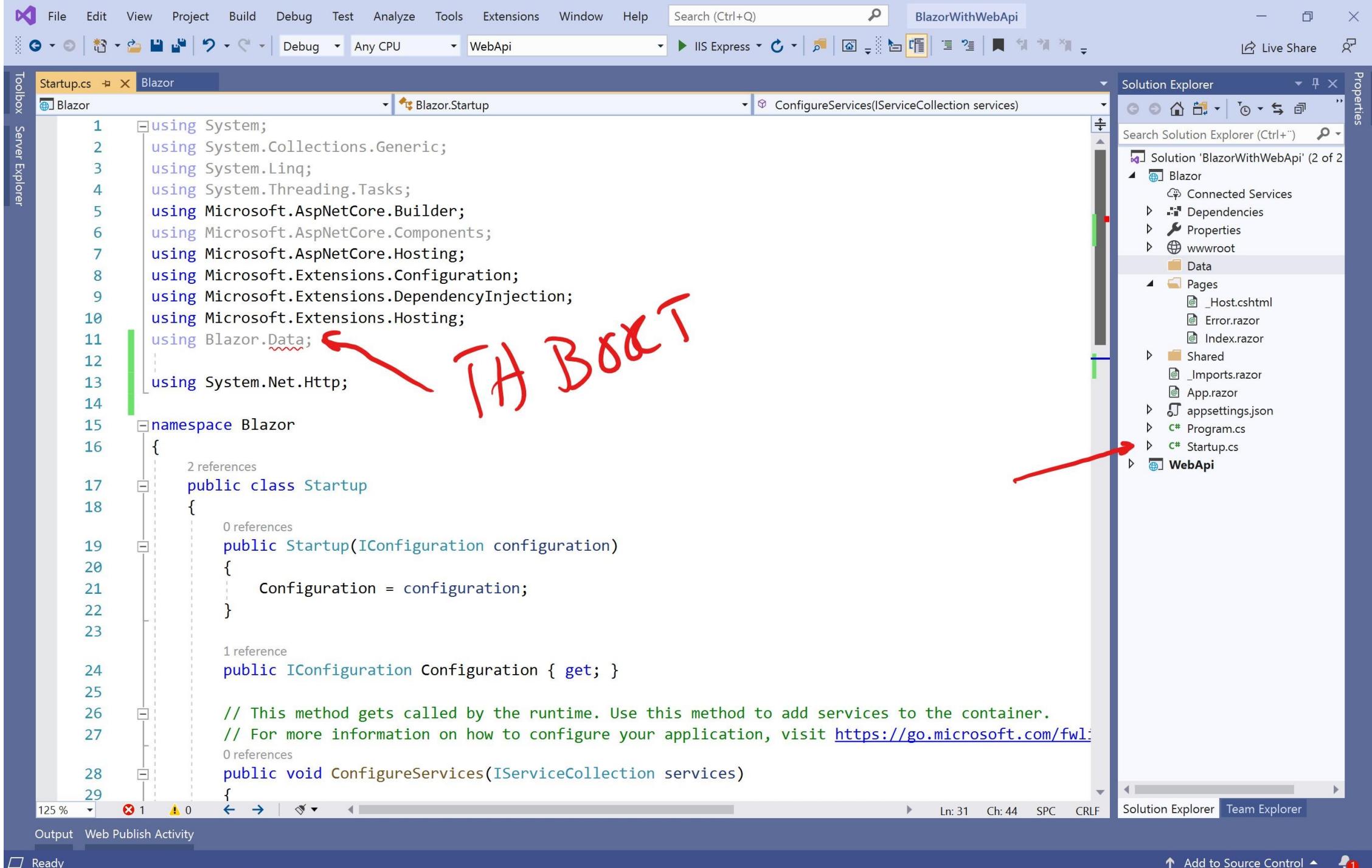
TA  
BORT

125 % No issues found

Output Web Publish Activity

Item(s) Saved

Add to Source Control



BlazorWithWebApi

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

Search (Ctrl+Q)

Blazor

Toolbox Server Explorer

Debug Any CPU WebApi IIS Express Live Share

1 <div class="top-row pl-4 navbar navbar-dark">  
2 <a class="navbar-brand" href="#">Blazor</a>  
3 <button class="navbar-toggler" @onclick="ToggleNavMenu">  
4 <span class="navbar-toggler-icon"></span>  
5 </button>  
6 </div>  
7  
8 <div class="@NavMenuCssClass" @onclick="ToggleNavMenu">  
9 <ul class="nav flex-column">  
10 <li class="nav-item px-3">  
11 <NavLink class="nav-link" href="" Match="NavLinkMatch.All">  
12 <span class="oi oi-home" aria-hidden="true"></span> Home  
13 </NavLink>  
14 </li>  
15 <li class="nav-item px-3">  
16 <NavLink class="nav-link" href="counter">  
17 <span class="oi oi-plus" aria-hidden="true"></span> Counter  
18 </NavLink>  
19 </li>  
20 <li class="nav-item px-3">  
21 <NavLink class="nav-link" href="fetchdata">  
22 <span class="oi oi-list-rich" aria-hidden="true"></span> Fetch data  
23 </NavLink>  
24 </li>  
25 </ul>  
26 </div>  
27  
28 @code {  
29 private bool collapseNavMenu = true;  
30  
31 private string NavMenuCssClass => collapseNavMenu ? "collapse" : null;  
32  
33 private void ToggleNavMenu()

125 % No issues found

Output Web Publish Activity

Ready Add to Source Control

Solution Explorer Team Explorer

Properties

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (2 of 2)

Blazor

- Connected Services
- Dependencies
- Properties
- wwwroot
- Data
- Pages
- Shared
- MainLayout.razor
- NavMenu.razor
- \_Imports.razor
- App.razor

appsettings.json

Program.cs

Startup.cs

WebApi



NavMenu.razor\*

```
1 <div class="top-row pl-4 navbar navbar-dark">
2   <a class="navbar-brand" href="">Blazor</a>
3   <button class="navbar-toggler" @onclick="ToggleNavMenu">
4     <span class="navbar-toggler-icon"></span>
5   </button>
6 </div>
7
8 <div class="@NavMenuCssClass" @onclick="ToggleNavMenu">
9   <ul class="nav flex-column">
10    <li class="nav-item px-3">
11      <NavLink class="nav-link" href="" Match="NavLinkMatch.All">
12        <span class="oi oi-home" aria-hidden="true"></span> Home
13      </NavLink>
14    </li>
15
16    <li class="nav-item px-3">
17      <NavLink class="nav-link" href="customer">
18        <span class="oi oi-people" aria-hidden="true"></span> Kunder
19      </NavLink>
20    </li>
21
22  </ul>
23 </div>
24
25
26 @code {
27   private bool collapseNavMenu = true;
28
29   private string NavMenuCssClass => collapseNavMenu ? "collapse" : null;
30
31   private void ToggleNavMenu()
32   {
33   }
```

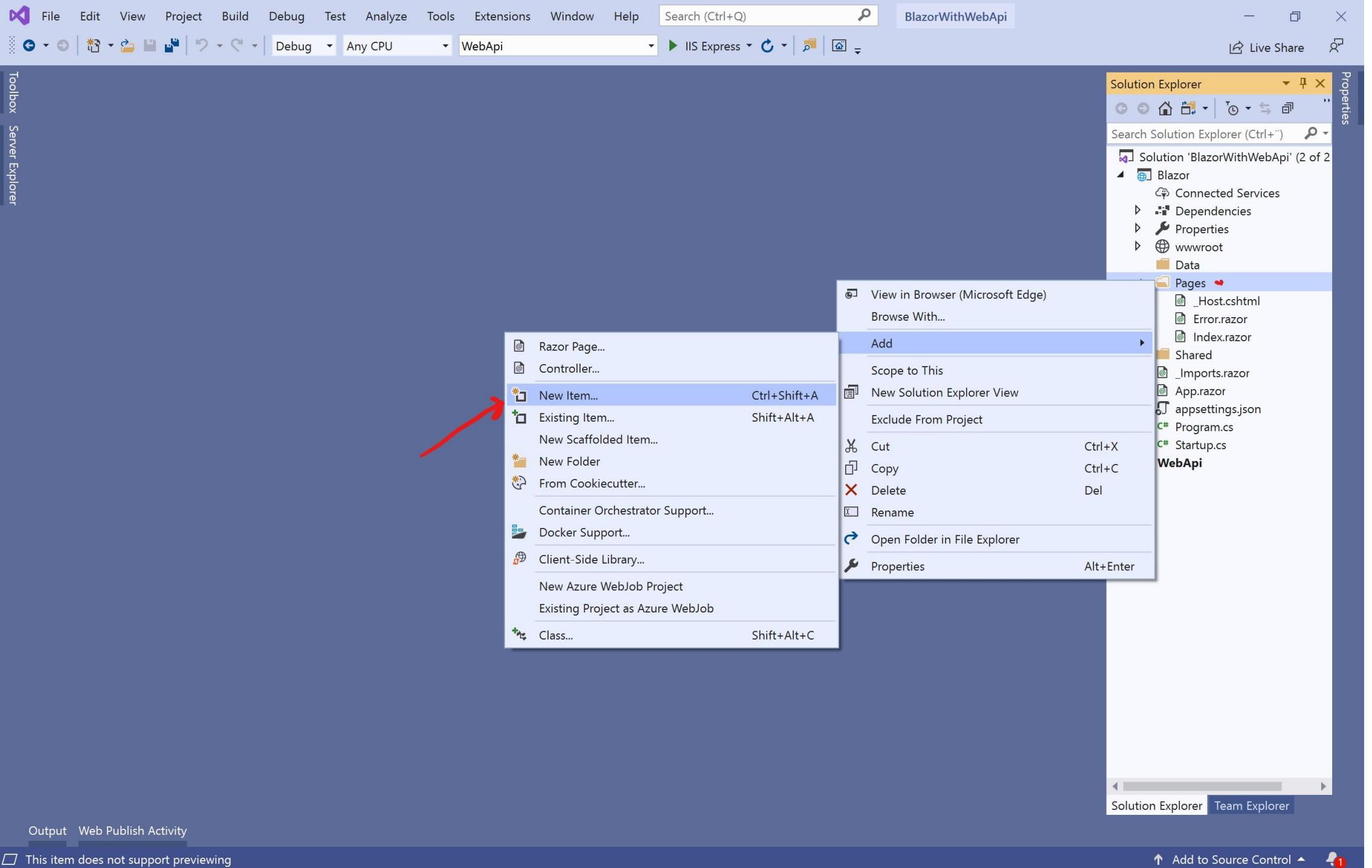
shape  
shape stars customers

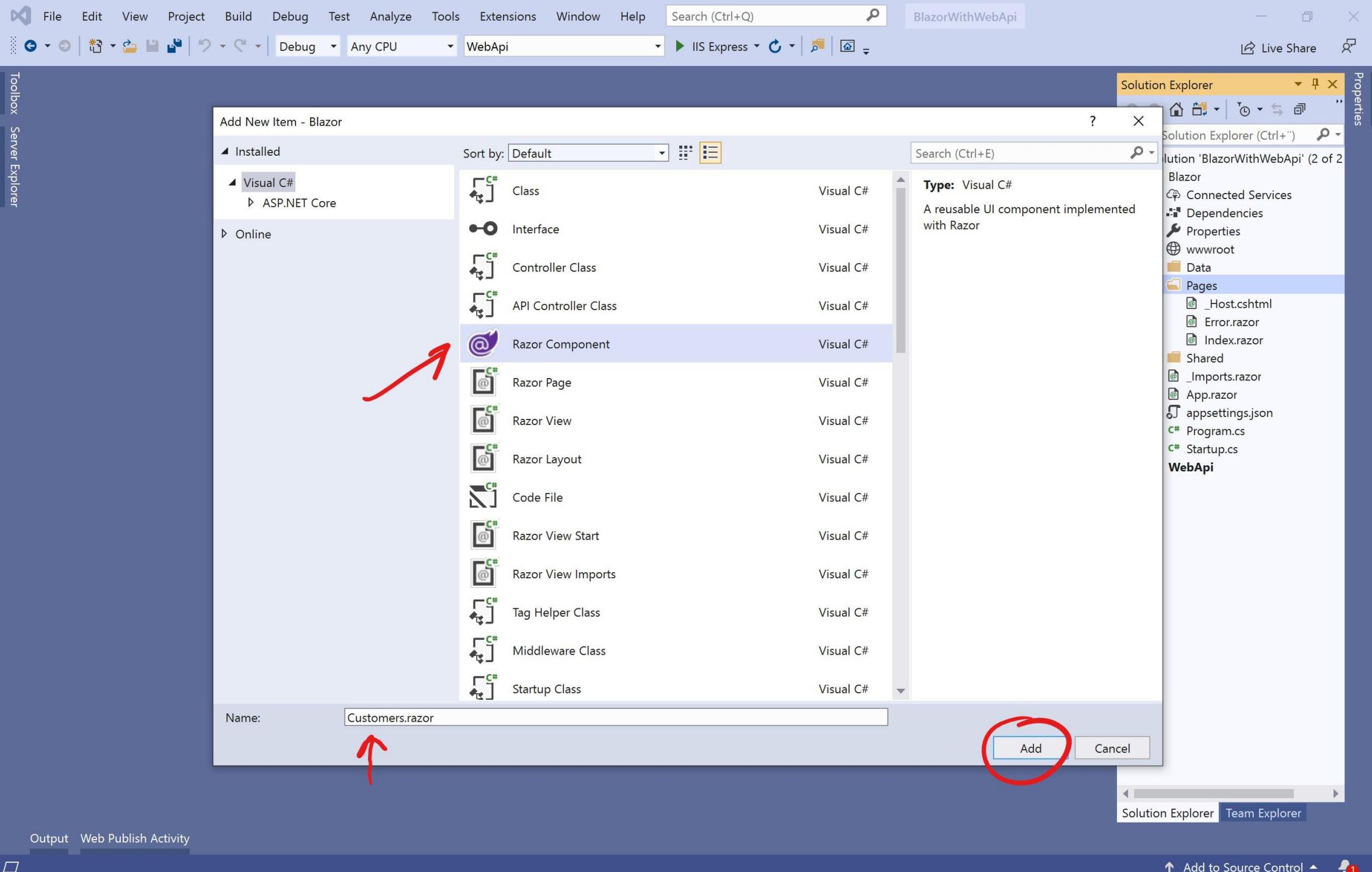
Output Web Publish Activity

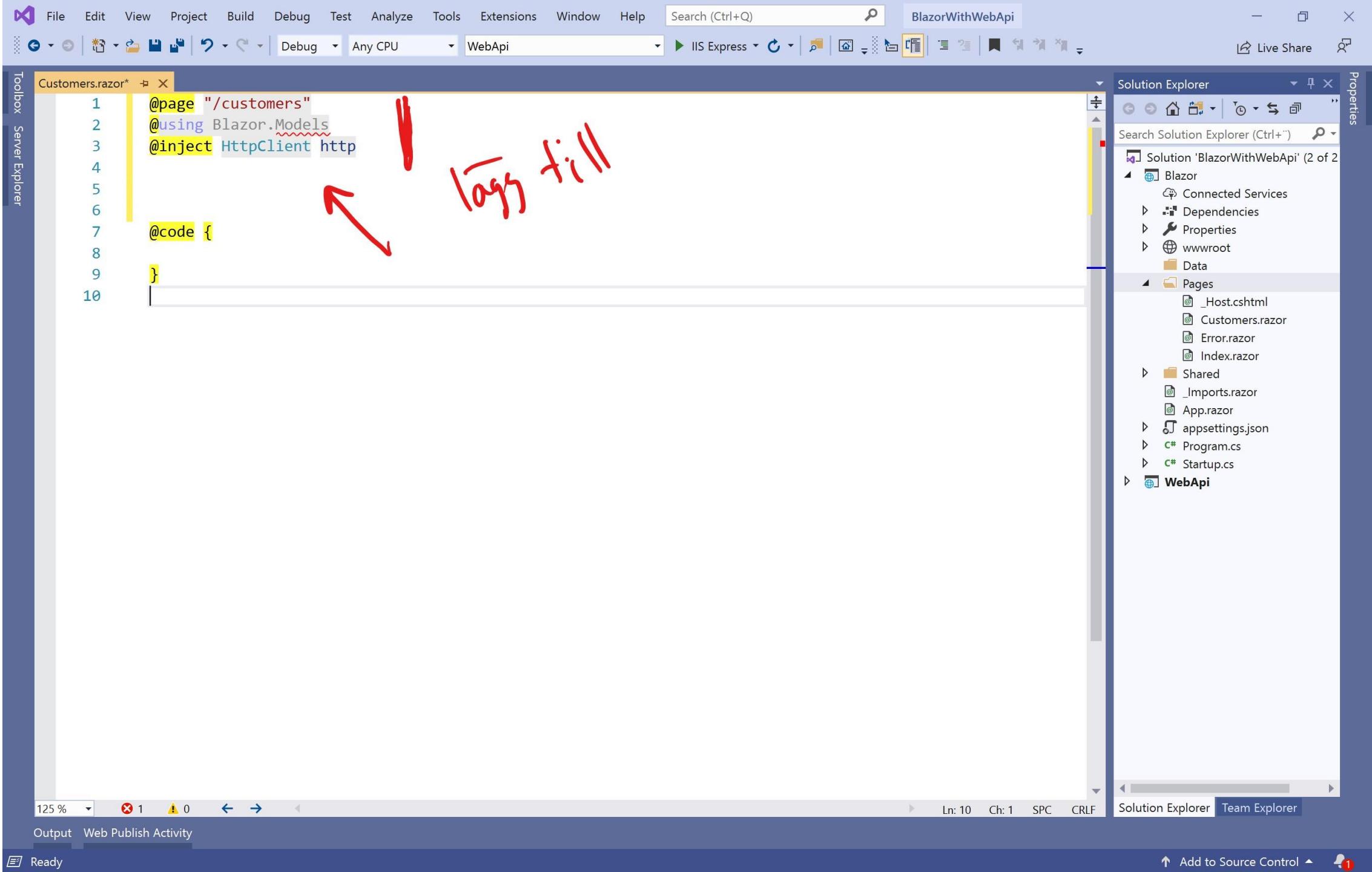
Ready

Add to Source Control

1









Shape

Debug Any CPU WebApi IIS Express Live Share

Customers.razor\*

```
1 @page "/customers"
2 @using Blazor.Models
3 @inject HttpClient http
4
5
6 @code {
7
8
9 }
10
```

Toolbox Server Explorer

Solution Explorer Properties

Search Solution Explorer (Ctrl+Shift+F) 

Solution 'BlazorWithWebApi' (2 of 2)

- Blazor
  - Connected Services
  - Dependencies
  - Properties
  - wwwroot
  - Data
- Models
- Pages
  - \_Host.cshtml
  - Customers.razor
  - Error.razor
  - Index.razor
- Shared
  - \_Imports.razor
  - App.razor
- appsettings.json
- Program.cs
- Startup.cs
- WebApi

View in Browser (Microsoft Edge)  
Browse With...

Add

- Controller...
- New Item... Ctrl+Shift+A
- Existing Item... Shift+Alt+A
- New Scaffolded Item...
- New Folder
- From Cookiecutter...
- Container Orchestrator Support...
- Docker Support...
- Client-Side Library...
- New Azure WebJob Project
- Existing Project as Azure WebJob
- Class... Shift+Alt+C

Cut Ctrl+X

Copy Ctrl+C

Delete Del

Rename

Open Folder in File Explorer

Properties Alt+Enter

125% 1 0 ← → Ln: 10 Ch: 1 SPC CRLF Solution Explorer Team Explorer

Output Web Publish Activity

Ready Add to Source Control 1





CustomerModel.cs\* Customers.razor\*

Blazor

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace Blazor.Models
7  {
8      public class CustomerModel
9      {
10         public int Id { get; set; }
11         public string FirstName { get; set; }
12         public string LastName { get; set; }
13         public string Email { get; set; }
14     }
15 }
16
```

LastName

Tags till

Denn warum kann ich nicht liste hinzufügen

Solution Explorer

Search Solution Explorer (Ctrl+Shift+F)

Solution 'BlazorWithWebApi' (2 of 2)

- Blazor
  - Connected Services
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  - Customers.razor
  - Error.razor
  - Index.razor
- Shared
  - Imports.razor
  - App.razor
- WebApi
  - appsettings.json
  - Program.cs
  - Startup.cs

Properties

Add to Source Control



CustomerModel.cs ▾ X Customers.razor

Blazor

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5
6 namespace Blazor.Models
7 {
8     public class CustomerModel
9     {
10         public int Id { get; set; }
11         public string FirstName { get; set; }
12         public string LastName { get; set; }
13         public string Email { get; set; }
14     }
15 }
16
```

Blazor.Models.CustomerModel

Id

Solution Explorer

Properties

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (2 of 2)

- Blazor
  - Connected Services
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  - Pages
  - \_Host.cshtml
  - Customers.razor
  - Error.razor
  - Index.razor
  - Shared
  - Imports.razor
  - App.razor
  - Appsettings.json
  - Program.cs
  - Startup.cs
  - Api

View in Browser (Microsoft Edge)  
Browse With...

Add

Scope to This

New Solution Explorer View

Exclude From Project

Cut

Copy

Delete

Rename

Open Folder in File Explorer

Properties

Class...

Shift+Alt+C

138 % No issues found

Ln: 1 Ch: 1 SPC CRLF

Output Web Publish Activity

This item does not support previewing

Add to Source Control

Live Share

Toolbox

Server Explorer

Solution Explorer

Team Explorer

The screenshot shows the Visual Studio IDE interface with the 'BlazorWithWebApi' project open. In the Solution Explorer, the 'Models' folder contains the 'CustomerModel.cs' file. A context menu is displayed over this file, with the 'Add' option highlighted. A red arrow points from the bottom left towards the 'Add' option. Other visible items in the menu include 'Controller...', 'New Item...', 'Existing Item...', 'New Scaffolded Item...', 'New Folder', 'From Cookiecutter...', 'Container Orchestrator Support...', 'Docker Support...', 'Client-Side Library...', 'New Azure WebJob Project', 'Existing Project as Azure WebJob', and 'Class...'. The code editor on the left shows the 'CustomerModel.cs' file with its class definition.



CustomerCreateModel.cs    CustomerModel.cs    Customers.razor    Blazor.Models.CustomerCreateModel    FirstName

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  using System.ComponentModel.DataAnnotations;
7
8  namespace Blazor.Models
9  {
10    public class CustomerCreateModel
11    {
12      [Required]
13      public string FirstName { get; set; }
14
15      [Required]
16      public string LastName { get; set; }
17
18      [Required]
19      public string Email { get; set; }
20
21      [Required]
22      public string Password { get; set; }
23    }
24  }
```

lags till  
decreasing annotations  
man

138 %    No issues found    Ln: 6 Ch: 45 SPC CRLF

Output Web Publish Activity    Add to Source Control

Item(s) Saved    1

Solution Explorer    Properties

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (2 of 2)

- Blazor
  - Connected Services
  - Dependencies
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    - C# CustomerModel.cs
  - Pages
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    - Error.razor
    - Index.razor
  - Shared
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    - App.razor
  - appsettings.json
  - C# Program.cs
  - C# Startup.cs- WebApi

Solution Explorer    Team Explorer



BlazorWithWebApi

Live Share

Customers.razor\*

```
1 @page "/customers"
2 @using Blazor.Models
3 @inject HttpClient http
4
5
6 @code {
7     private List<CustomerModel> customers;
8     private CustomerCreateModel customer;
9 }
10
11
12
13 }
```

14

138 % No issues found

Ln: 14 Ch: 1 SPC CRLF

Output Web Publish Activity

Add to Source Control

Ready

Customers.razor

BlazorWithWebApi

Solution Explorer

Properties

Search Solution Explorer (Ctrl+Shift+F)

Solution 'BlazorWithWebApi' (2 of 2)

Blazor

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  - CustomerModel.cs
- Pages
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  - Customers.razor
  - Error.razor
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- Shared
  - Imports.razor
  - App.razor
- appsettings.json
- Program.cs
- Startup.cs

WebApi

Toolbox

Server Explorer

Solution Explorer

Team Explorer

1

A red arrow points from the handwritten text "1 CSS + H" in the upper right towards the "Customers.razor" file in the code editor. Another red arrow points from the handwritten text "1 CSS + H" towards the "Customers.razor" item in the Solution Explorer pane.

BlazorWithWebApi

File Edit View Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q)

Debug Any CPU WebApi IIS Express Add to Source Control

Toolbox Server Explorer

Customers.razor\*

```
1 @page "/customers"
2 @using Blazor.Models
3 @inject HttpClient http
4
5
6 @code {
7
8     private List<CustomerModel> customers;
9     private CustomerCreateModel customer;
10
11
12     private async Task GetCustomers()
13     {
14         customers = await http.GetJsonAsync<List<CustomerModel>>("http://localhost:51722/api/customers");
15         StateHasChanged();
16     }
17
18 }
19
20
```

sharp

Solution Explorer

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (2 of 2)

- Blazor
  - Connected Services
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    - C# CustomerModel.cs
  - Pages
    - \_Host.cshtml
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    - Error.razor
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  - Shared
    - \_Imports.razor
    - App.razor
  - appsettings.json
  - C# Program.cs
  - C# Startup.cs- WebApi

Diagnostic Tools Properties

Output Web Publish Activity

Ready

Add to Source Control

Customers.razor\*

```
1  @page "/customers"
2  @using Blazor.Models
3  @inject HttpClient http
4
5
6
7  @code {
8
9      private List<CustomerModel> customers;
10     private CustomerCreateModel customer;
11
12
13     private async Task GetCustomers()
14     {
15         customers = await http.GetJsonAsync<List<CustomerModel>>("http://localhost:51722/api/customers");
16         StateHasChanged();
17     }
18
19
20     private async Task CreateCustomer()
21     {
22         await http.PostJsonAsync<CustomerCreateModel>("http://localhost:51722/api/customers", customer);
23
24         customer = new CustomerCreateModel();
25         await GetCustomers();
26     }
27
28
29
30
31 }
32
```

Slurp

Solution Explorer

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (2 of 2)

- Blazor
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    - C# CustomerModel.cs
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    - Customers.razor
    - Error.razor
    - Index.razor
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    - \_Imports.razor
    - App.razor
  - appsettings.json
  - C# Program.cs
  - C# Startup.cs- WebApi

Toolbox Server Explorer Diagnostic Tools Properties

Output Web Publish Activity

Ready Add to Source Control

Customers.razor\*

```
13     private async Task GetCustomers()
14     {
15         customers = await http.GetJsonAsync<List<CustomerModel>>("http://localhost:51722/api/customers");
16         StateHasChanged();
17     }
18
19
20
21     private async Task CreateCustomer()
22     {
23         await http.PostJsonAsync<CustomerCreateModel>("http://localhost:51722/api/customers", customer);
24
25         customer = new CustomerCreateModel();
26         await GetCustomers();
27     }
28
29
30
31     private async Task DeleteAllCustomers()
32     {
33         await http.DeleteAsync("http://localhost:51722/api/customers/all");
34         await GetCustomers();
35     }
36
37     private async Task DeleteCustomer(int id)
38     {
39         await http.DeleteAsync($"http://localhost:51722/api/customers/{id}");
40         await GetCustomers();
41     }
42
43
44
45
46 }
```

114% No issues found

Output Web Publish Activity

Live Share

Solution Explorer Team Explorer

Diagnostic Tools Properties

BlazorWithWebApi

Blazor

- Connected Services
- Dependencies
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  - CustomerModel.cs
- Pages
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  - Error.razor
  - Index.razor
- Shared
  - \_Imports.razor
  - App.razor
- appsettings.json
- Program.cs
- Startup.cs

WebApi



sharp

Customers.razor\*

```
15
16
17    private async Task CreateCustomer()
18    {
19        await http.PostJsonAsync<CustomerCreateModel>("http://localhost:51722/api/customers", customer);
20
21        customer = new CustomerCreateModel();
22        await GetCustomers();
23    }
24
25
26    private async Task DeleteAllCustomers()
27    {
28        await http.DeleteAsync("http://localhost:51722/api/customers/all");
29        await GetCustomers();
30    }
31
32
33    private async Task DeleteCustomer(int id)
34    {
35        await http.DeleteAsync($"http://localhost:51722/api/customers/{id}");
36        await GetCustomers();
37    }
38
39
40    protected override async Task OnInitializedAsync()
41    {
42        customer = new CustomerCreateModel();
43        await GetCustomers();
44    }
45
46
47
48
49
50
51 }
```

Wirs hāt ladden

Startet wirs hāt schon

nollställer formularer

Solution Explorer

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (2 of 2)

- Blazor
  - Connected Services
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    - CustomerModel.cs
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    - Customers.razor
    - Error.razor
    - Index.razor
  - Shared
    - \_Imports.razor
    - App.razor
  - appsettings.json
  - Program.cs
  - Startup.cs
- WebApi

Customers.razor\*

```
1  @page "/customers"
2  @using Blazor.Models
3  @inject HttpClient http
4
5
6  <div class="container">
7
8
9
10
11
12  </div>
13
14
15
16
17
18
19
20
21
22
23
24
25  @code {
26
27      private List<CustomerModel> customers;
28      private CustomerCreateModel customer;
29
30
31      private async Task GetCustomers()
32      {
33          customers = await http.GetJsonAsync<List<CustomerModel>>("http://localhost:51722/api/customers");
34          StateHasChanged();
35      }
36
```

Shapes met container  
lite in een container

Solution Explorer

Search Solution Explorer (Ctrl+F)

Solution 'BlazorWithWebApi' (2 of 2)

- Blazor
  - Connected Services
  - Dependencies
  - Properties
  - wwwroot
    - Data
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    - C# CustomerCreateModel.cs
    - C# CustomerModel.cs
  - Pages
    - \_Host.cshtml
    - Customers.razor
    - Error.razor
    - Index.razor
  - Shared
    - \_Imports.razor
    - App.razor
  - appsettings.json
  - C# Program.cs
  - C# Startup.cs- WebApi

Toolbox Server Explorer

Output Web Publish Activity

114 % No issues found

Ln: 12 Ch: 5 SPC CRLF

Add to Source Control



Customers.razor\*

```
1  @page "/customers"
2  @using Blazor.Models
3  @inject HttpClient http
4
5
6  <div class="container">
7
8      <div class="text-right">
9          <button type="submit" class="btn btn-danger" @onclick="DeleteAllCustomers">Ta bort alla kunder!</button>
10     </div>
11
12 </div>
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27 @code {
28
29     private List<CustomerModel> customers;
30     private CustomerCreateModel customer;
31
32
33     private async Task GetCustomers()
34     {
35         customers = await http.GetJsonAsync<List<CustomerModel>>("http://localhost:51722/api/customers");
36         StateHasChanged();
37     }
38 }
```

Snarar en krapp  
Upp! nogra hämt  
samt här en funktion  
när man klickar  
på den

Output Web Publish Activity

Solution Explorer Team Explorer

Add to Source Control

Customers.razor\*

```
7 <div class="container">
8
9     <div class="text-right">
10        <button type="submit" class="btn btn-danger" @onclick="DeleteAllCustomers">Ta bort alla kunder!</button>
11    </div>
12
13
14    <EditForm class="my-5" Model="@customer" OnSubmit="@CreateCustomer">
15        <h5 class="mb-3">Skapa en Kund</h5>
16        <div class="form-group">
17            <div class="row">
18                <div class="col">
19                    <input type="text" class="form-control" placeholder="Förnamn..." @bind="customer.FirstName" />
20                </div>
21                <div class="col">
22                    <input type="text" class="form-control" placeholder="Efternamn..." @bind="customer.LastName" />
23                </div>
24            </div>
25            <div class="form-group">
26                <input type="text" class="form-control" placeholder="E-postadress..." @bind="customer.Email" />
27            </div>
28
29            <button type="submit" class="btn btn-success">Skapa Kund</button>
30        </EditForm>
31
32    </div>
33
34
```

När man submitter  
sägs här kunderna

Skapar ett formulär som binds till  
objektet customer som  
genomförs tillgång i den  
granskade. Bind binder verdet  
mot vreden

Output Web Publish Activity

Solution Explorer

Diagnostic Tools

Customers.razor\*

```
30      <button type="submit" class="btn btn-success">Skapa Kund</button>
31  </EditForm>
32
33
34  <table class="table">
35    <thead class="thead-light">
36      <tr>
37        <th scope="col">#</th>
38        <th scope="col">Förnamn</th>
39        <th scope="col">Efternamn</th>
40        <th scope="col" colspan="2">E-postadress</th>
41      </tr>
42    </thead>
43    @if (customers != null)
44    {
45      <tbody>
46
47        @foreach (var customer in customers)
48        {
49
50          <tr>
51            <th scope="row">@customer.Id</th>
52            <td>@customer.FirstName</td>
53            <td>@customer.LastName</td>
54            <td>@customer.Email</td>
55            <td class="text-center">
56              <span style="cursor: pointer" class="oi oi-trash" @onclick="() => DeleteCustomer(customer.Id)"></span>
57            </td>
58          </tr>
59        }
59      </tbody>
60    }
61  </table>
62
63
64
65  </div>
66
67
68
69  @code {
```

en tabell som listar upp alla kunder som finns i databasen  
går även att ta bort en kund

Live Share Diagnostic Tools

Solution Explorer

Search Solution

Solution 'BlazorW' Properties

Blazor Connected

Dependencies

Properties

wwwroot

Data

Models

Custom

Custom

Pages

\_Host.cs

Custom

Error.razor

Index.razor

Shared

\_Imports.razor

App.razor

appsettings

Program.cs

Startup.cs

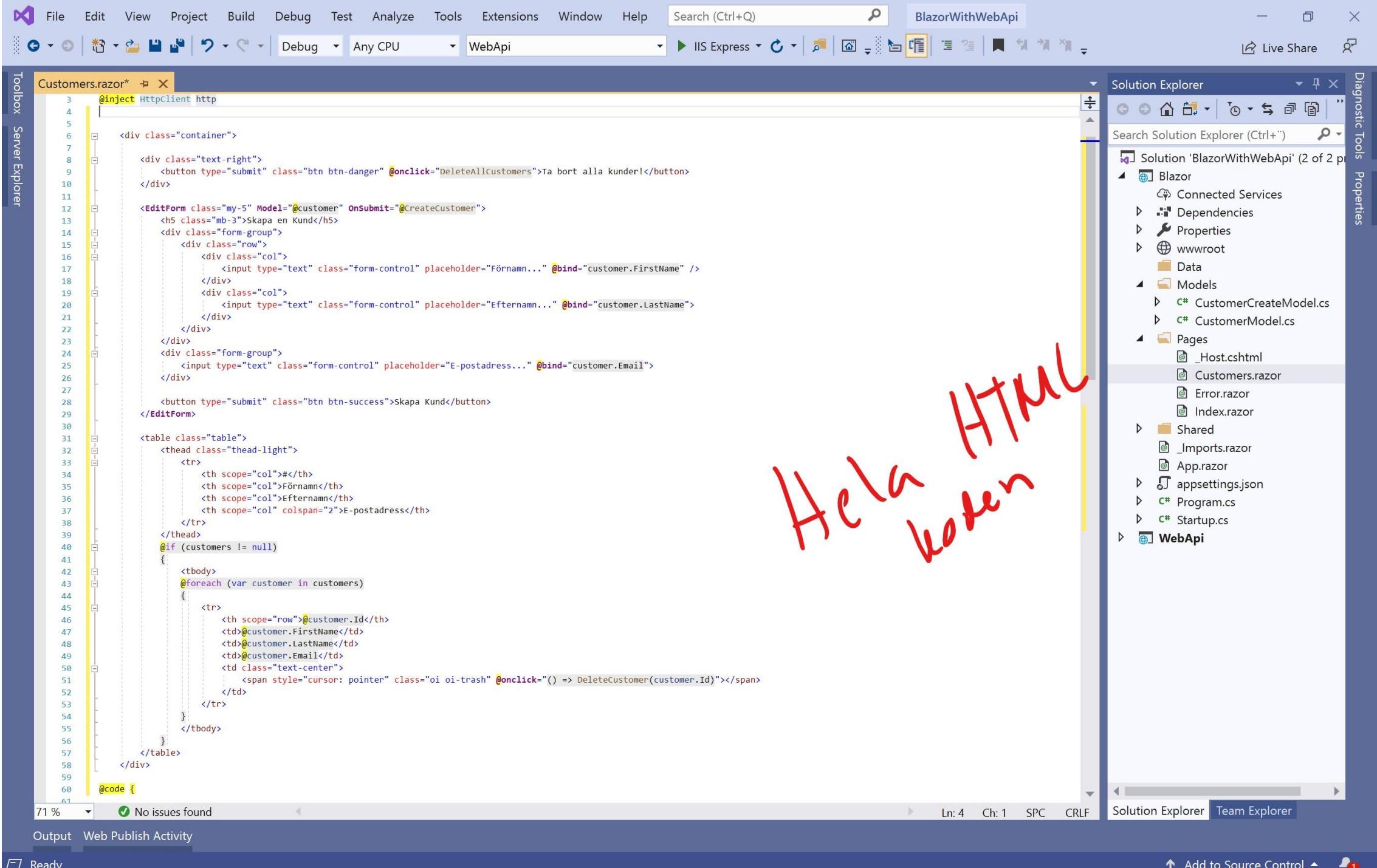
WebApi

Output Web Publish Activity

104 % No issues found

Ln: 69 Ch: 1 SPC CRLF

Solutio... Team Ex...





BlazorWithWebApi

Debug Any CPU WebApi IIS Express Live Share

Toolbox Server Explorer

Customers.razor\*

```
58     </div>
59
60     @code {
61
62         private List<CustomerModel> customers;
63         private CustomerCreateModel customer;
64
65
66         private async Task GetCustomers()
67     {
68             customers = await http.GetJsonAsync<List<CustomerModel>>("http://localhost:51722/api/customers");
69             StateHasChanged();
70         }
71
72         private async Task CreateCustomer()
73     {
74             await http.PostJsonAsync<CustomerCreateModel>("http://localhost:51722/api/customers", customer);
75
76             customer = new CustomerCreateModel();
77             await GetCustomers();
78         }
79
80         private async Task DeleteAllCustomers()
81     {
82             await http.DeleteAsync("http://localhost:51722/api/customers/all");
83             await GetCustomers();
84         }
85
86         private async Task DeleteCustomer(int id)
87     {
88             await http.DeleteAsync($"http://localhost:51722/api/customers/{id}");
89             await GetCustomers();
90         }
91
92         protected override async Task OnInitializedAsync()
93     {
94             customer = new CustomerCreateModel();
95             await GetCustomers();
96         }
97
98     }
```

Search Solution Explorer (Ctrl+F)

Solution Explorer

Diagnostic Tools Properties

Solution 'BlazorWithWebApi' (2 of 2 p)

- Blazor
  - Connected Services
  - Dependencies
  - Properties
  - wwwroot
  - Data
- Models
  - C# CustomerCreateModel.cs
  - C# CustomerModel.cs
- Pages
  - \_Host.cshtml
  - Customers.razor
  - Error.razor
  - Index.razor
- Shared
  - \_Imports.razor
  - App.razor
- appsettings.json
- C# Program.cs
- C# Startup.cs

WebApi

Hola user

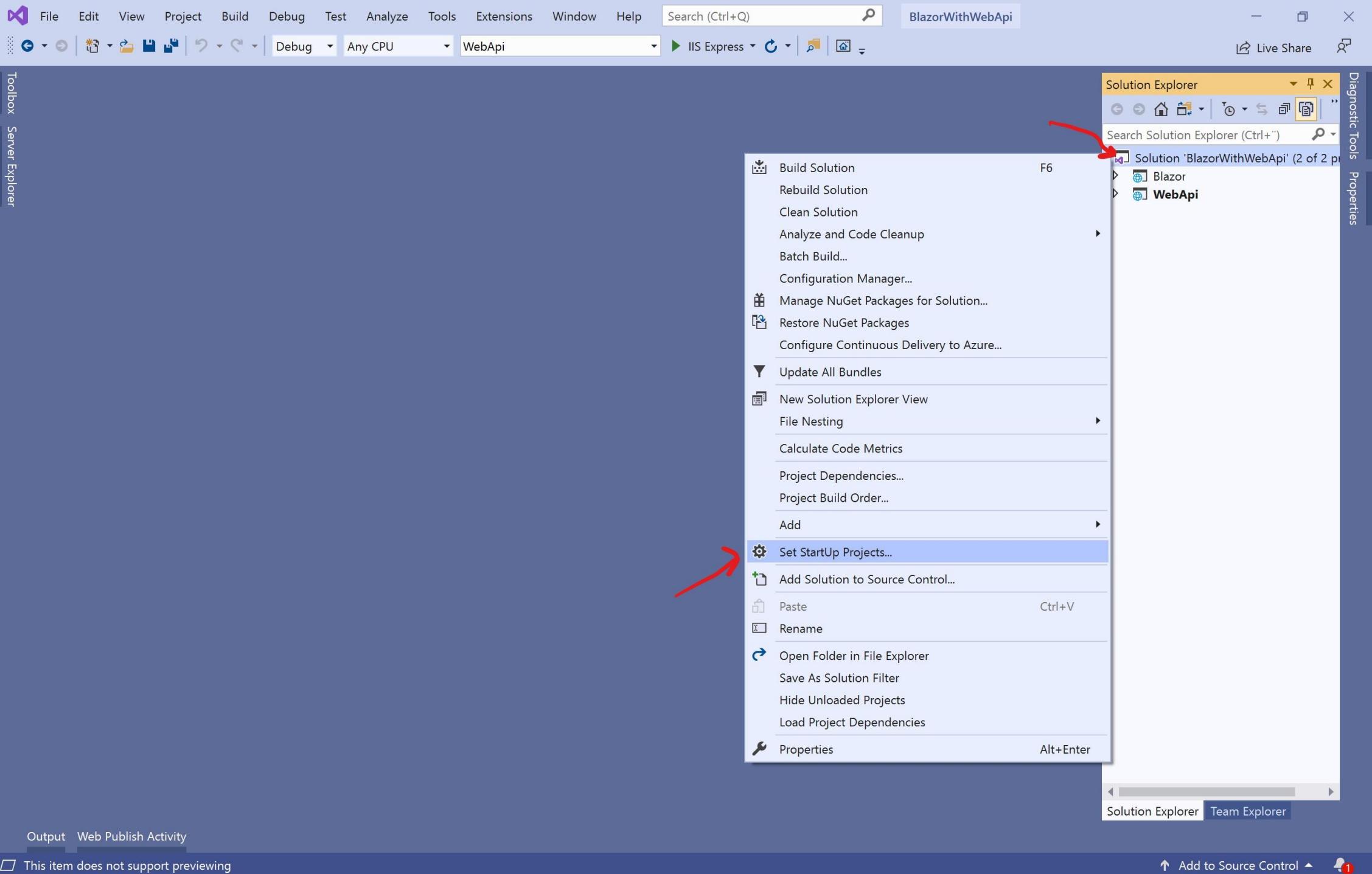
94% No issues found

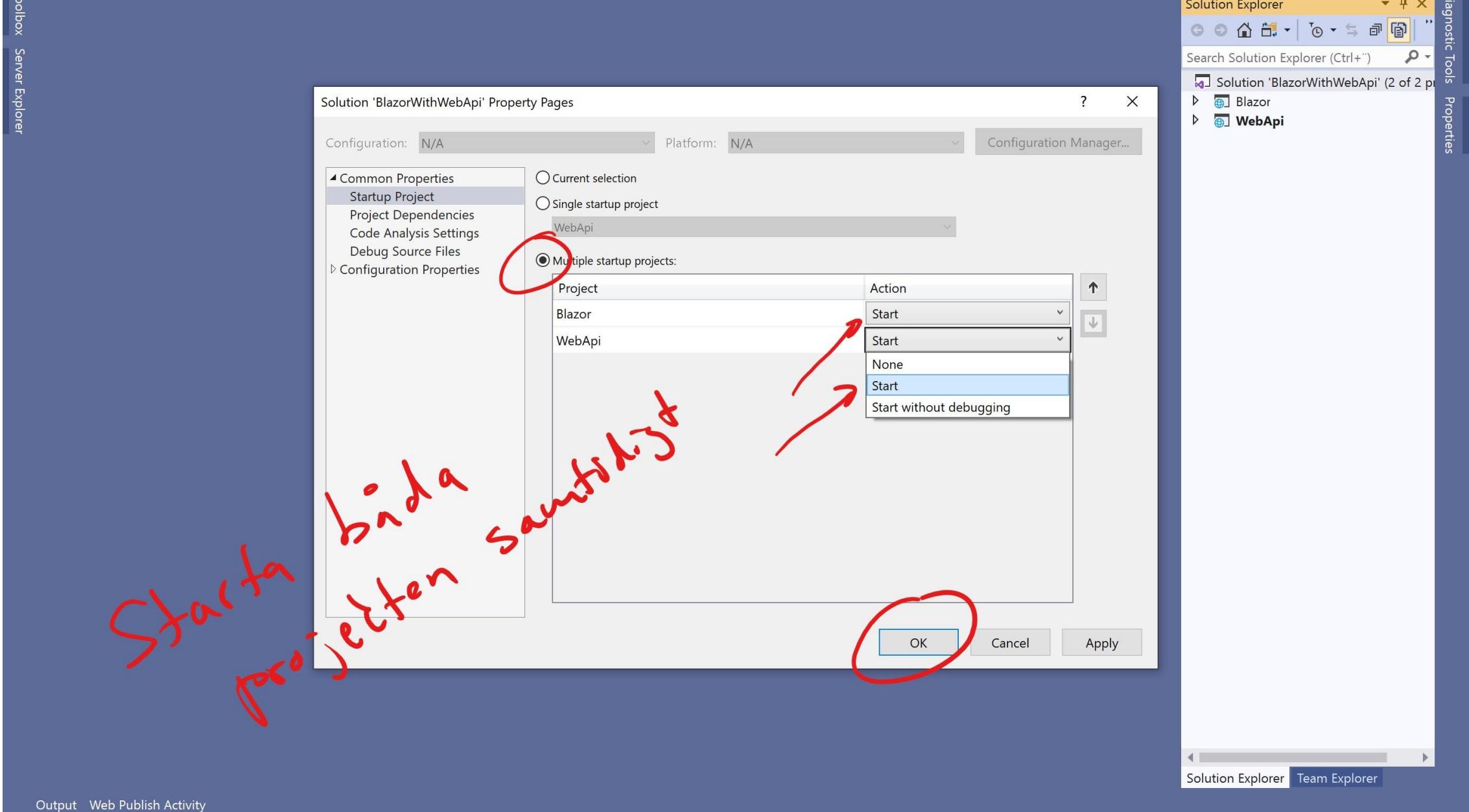
Ln: 4 Ch: 1 SPC CRLF

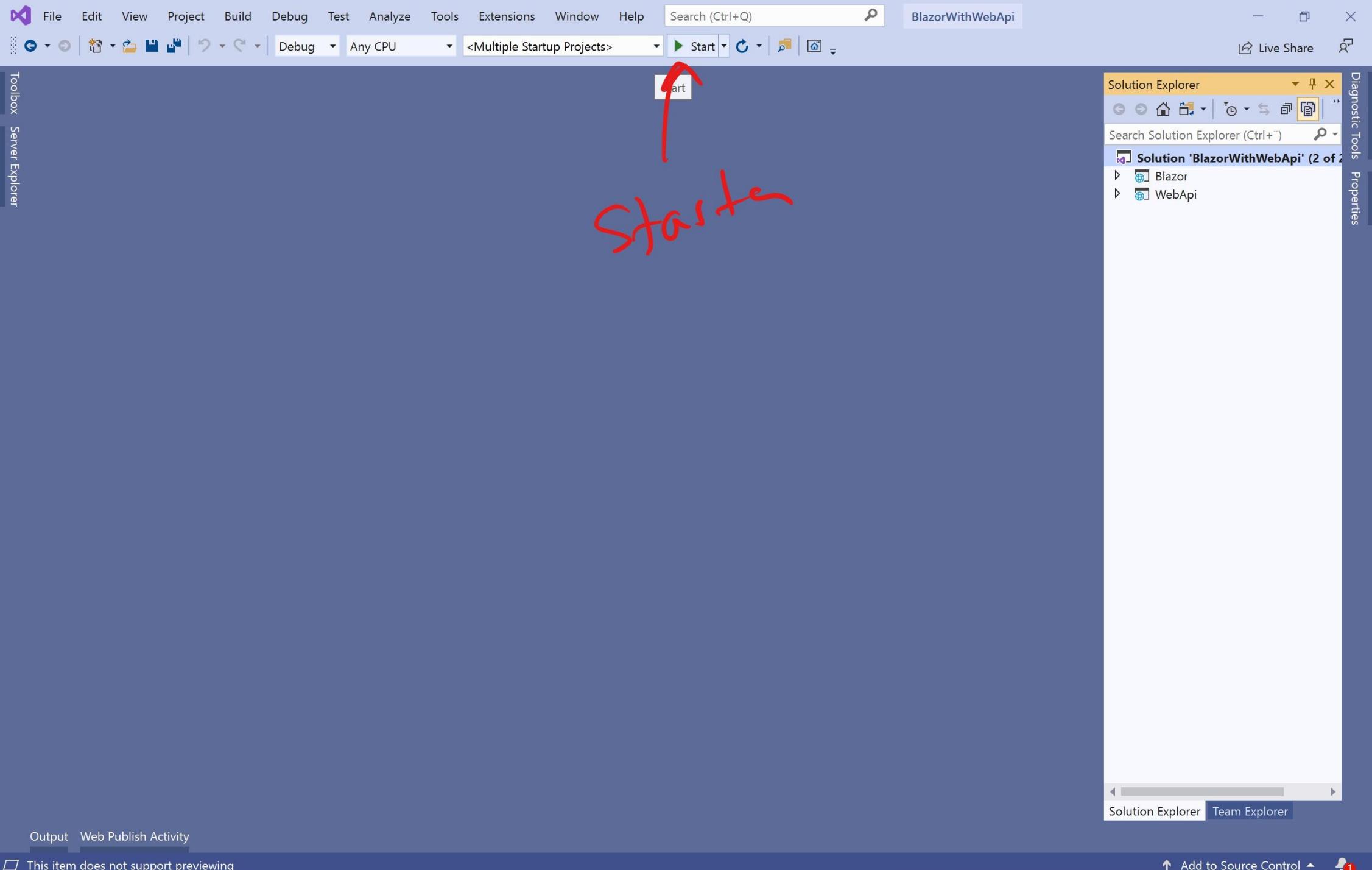
Solution Explorer Team Explorer

Output Web Publish Activity

Ready Add to Source Control









### Skapa en Kund

Skapa Kund

#	Förnamn	Efternamn	E-postadress	
1	Anna	Nyman	anna@nyman.com	
2	Marcus	Larsson	marcus.larsson@gmail.com	

TADAA! Två kunder har lagts till  
och ligger i lista



### Skapa en Kund

Skapa Kund

Ta bort alla kunder!

Ta bort  
alla kunder

#	Förnamn	Efternamn	E-postadress
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