

Tutorial: Get started with Razor Pages in ASP.NET Core

09/15/2020 • 15 minutes to read •  +10

In this article

[Prerequisites](#)

[Create a Razor Pages web app](#)

[Run the app](#)

[Examine the project files](#)

[Next steps](#)

By [Rick Anderson](#)

This is the first tutorial of a series that teaches the basics of building an ASP.NET Core Razor Pages web app.

For a more advanced introduction aimed at developers who are familiar with controllers and views, see [Introduction to Razor Pages](#).

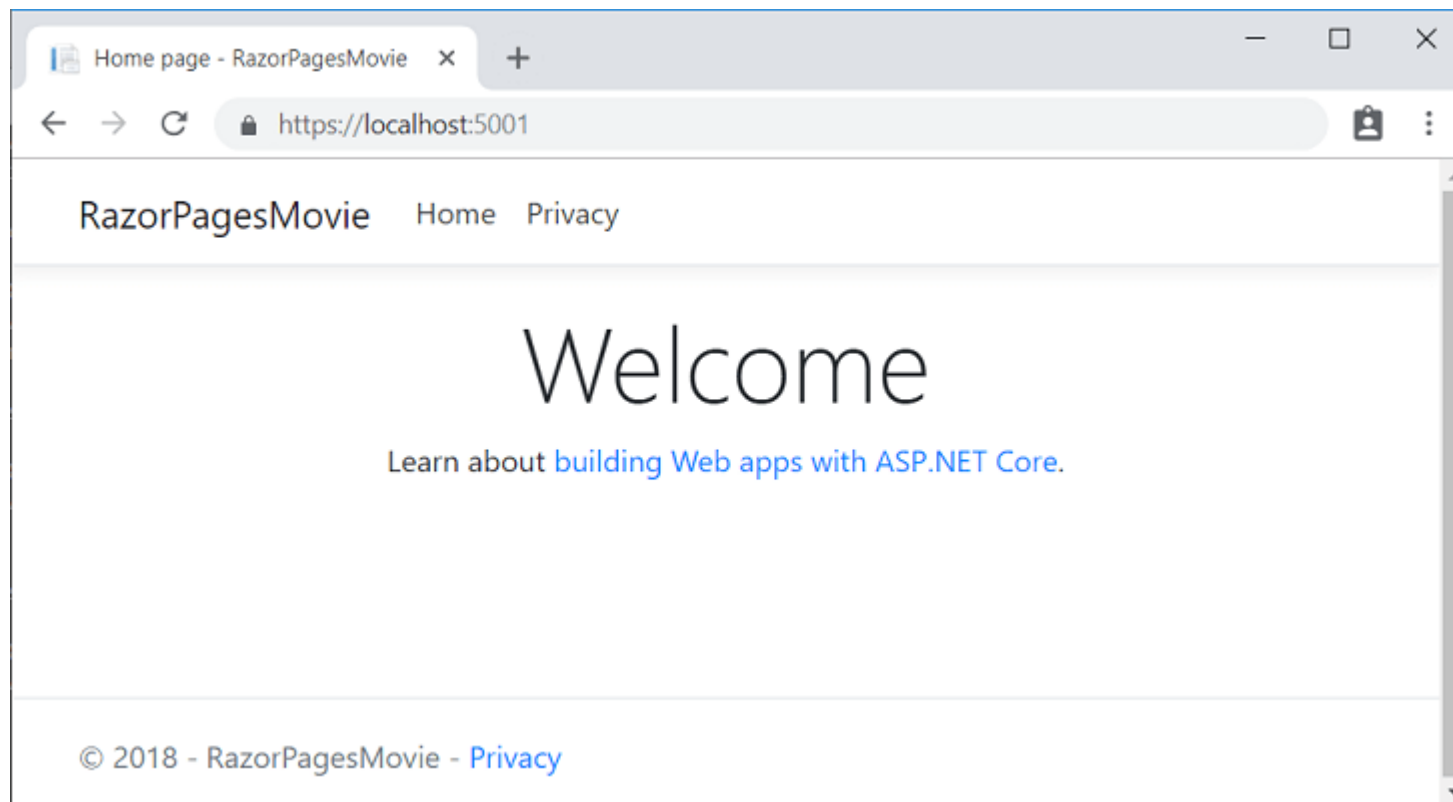
At the end of the series, you'll have an app that manages a database of movies.

[View or download sample code](#) ([how to download](#)).

In this tutorial, you:

- ✓ Create a Razor Pages web app.
- ✓ Run the app.
- ✓ Examine the project files.

At the end of this tutorial, you'll have a working Razor Pages web app that you'll build on in later tutorials.



Prerequisites

Visual Studio

Visual Studio Code

Visual Studio for Mac

- [Visual Studio 2019 16.4 or later](#) with the **ASP.NET** and web development workload
- [.NET Core 3.1 SDK or later](#)

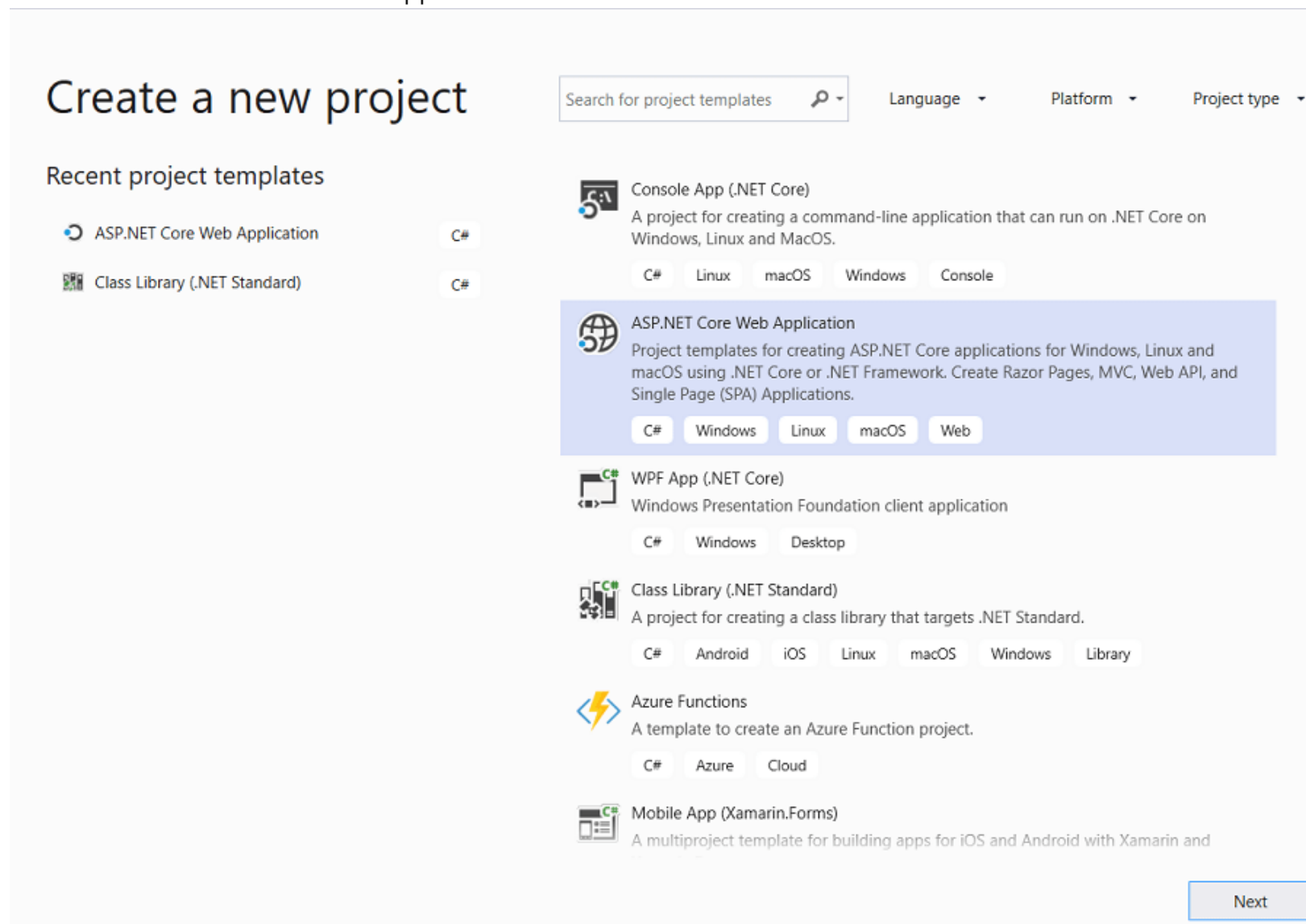
Create a Razor Pages web app

Visual Studio

Visual Studio Code

Visual Studio for Mac

- From the Visual Studio **File** menu, select **New > Project**.
- Create a new ASP.NET Core Web Application and select **Next**.



- Name the project **RazorPagesMovie**. It's important to name the project *RazorPagesMovie* so the namespaces will match when you copy and paste code.

Configure your new project

ASP.NET Core Web Application C# Linux macOS Windows Cloud Service Web

Project name

RazorPagesMovie

Location

C:\repos

Solution name ⓘ

RazorPagesMovie

☒ Place solution and project in the same directory

Back Create


- Select **ASP.NET Core 3.1** in the dropdown, **Web Application**, and then select **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**

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

[Get additional project templates](#)

Authentication

No Authentication
[Change](#)

Advanced

☒ Configure for HTTPS
☐ Enable Docker Support
(Requires [Docker Desktop](#))

Linux

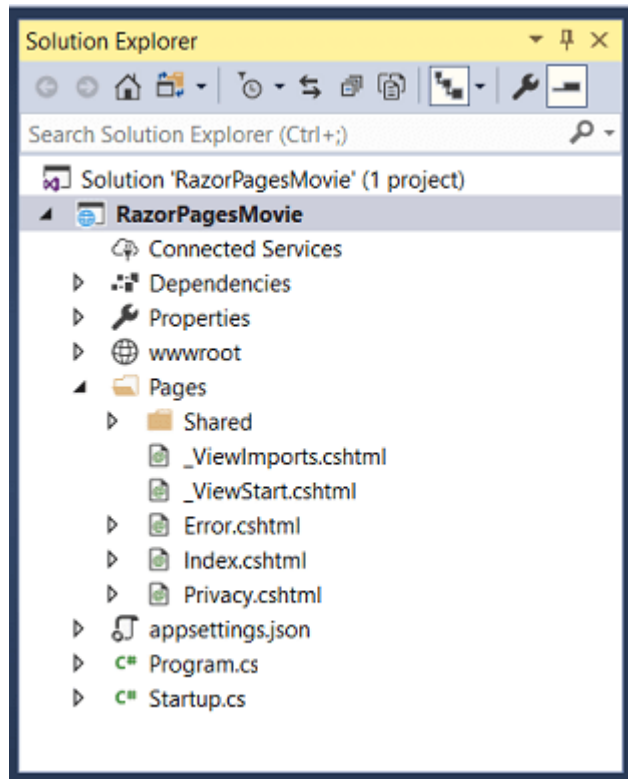
☐ Enable Razor runtime compilation

Author: Microsoft
Source: Templates 3.1.7

Back

Create

The following starter project is created:



Run the app

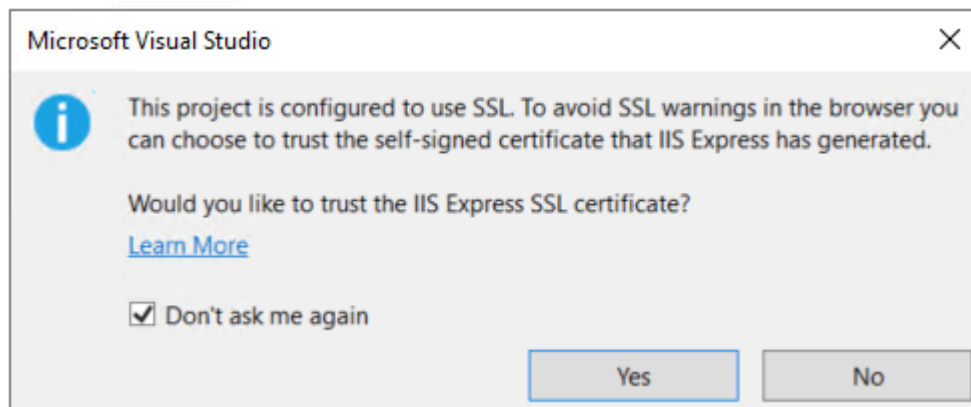
Visual Studio

Visual Studio Code

Visual Studio for Mac

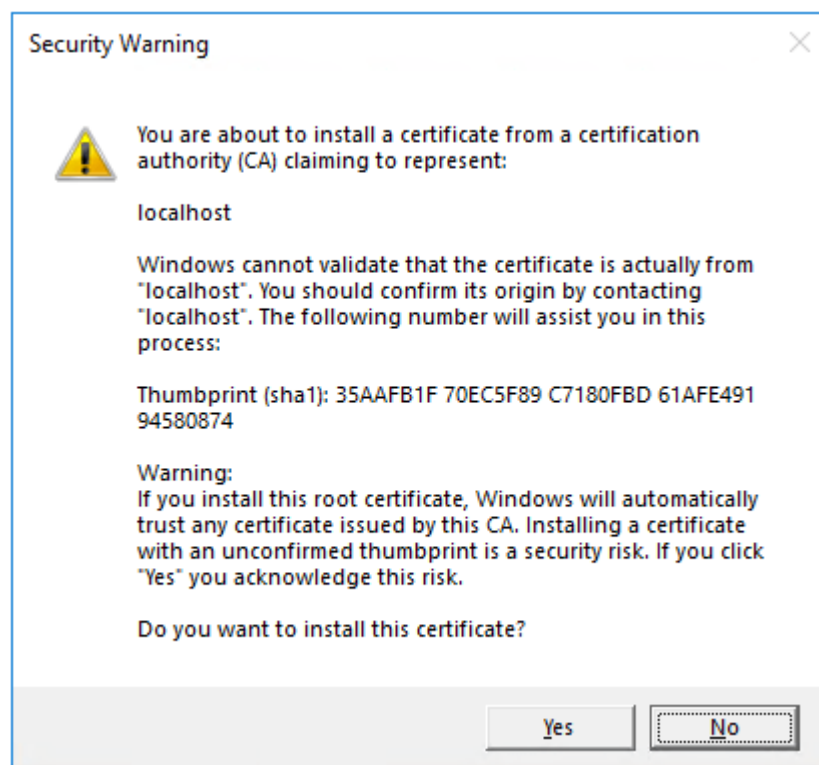
- Press Ctrl+F5 to run without the debugger.

Visual Studio displays the following dialog:



Select **Yes** if you trust the IIS Express SSL certificate.

The following dialog is displayed:



Select **Yes** if you agree to trust the development certificate.

Visual Studio starts [IIS Express](#) and runs the app. The address bar shows `localhost:port#` and not something like `example.com`. That's because `localhost` is the standard hostname for the local computer. Localhost only serves web requests from the local computer. When Visual Studio creates a web project, a random port is used for the web server.

Examine the project files

Here's an overview of the main project folders and files that you'll work with in later tutorials.

Pages folder

Contains Razor pages and supporting files. Each Razor page is a pair of files:

- A `.cshtml` file that has HTML markup with C# code using Razor syntax.
- A `.cshtml.cs` file that has C# code that handles page events.

Supporting files have names that begin with an underscore. For example, the `_Layout.cshtml` file configures UI elements common to all pages. This file sets up the navigation menu at the top of the page and the copyright notice at the bottom of the page. For more information, see [Layout in ASP.NET Core](#).

wwwroot folder

Contains static files, like HTML files, JavaScript files, and CSS files. For more information, see [Static files in ASP.NET Core](#).

appSettings.json

Contains configuration data, like connection strings. For more information, see [Configuration in ASP.NET Core](#).

Program.cs

Contains the entry point for the program. For more information, see [.NET Generic Host in ASP.NET Core](#).

Startup.cs

Contains code that configures app behavior. For more information, see [App startup in ASP.NET Core](#).

Next steps

Next: Add a model

Is this page helpful?

 Yes  No
