

How to create asp.net mvc 4 application in visual studio 2017

Already I have visual studio 2015, recently I installed visual studio 2017. I have the NETCore 2+ SDK installed. But when I want to create a web app" tutorial, we'll learn how to create a web app using a combination of several development technologies including ASP .NET MVC, C# Razor and Visual Studio. Let's get to it! Defining Concepts What is ASP.NET? Microsoft ASP.NET? Microsoft ASP.NET? Microsoft ASP.NET? Microsoft ASP.NET is a framework used in web application development, dynamic websites and web services. There have been 6 frameworks so far since this technology was created: 1.0, 1.1, 2.0, 3.5, 4.0 and the current version 4.5. Every framework has been adding more and more classes, methods, types, etc., so programmers are able to do more things using these new features. What is MVC? MVC is a software architecture pattern which separates the development of applications into three concepts or components: Model, View and Controller. As you can see, this is where the name comes from. Each component manages and represents a particular aspect of the application. View - It represents the user interface and where the user can see the information provided by the model. Controller - It's how the Model and View components communicate or interact. It's the link between the two. MVC is a pattern so it's not exclusive of any company or license. There are many MVC frameworks. For example, Cocoa, using Objective C licensed by Apple, Ruby On Rails, using Ruby licensed by APACHE. We could continue with so much more, but the one we are focusing on in this tutorial is Microsoft ASP.NET MVC, using C#. Currently, there are 4 versions of ASP.NET MVC and in this tutorial, we'll use MVC 3. What is C#? C# is an object-oriented programming language developed by Microsoft as part of the .NET framework. A C# web application will run on the Windows ecosystem and there is a lot that can be leveraged for a powerful, seamless experience. What is Razor? Razor is an ASP.NET programming syntax that allows the programming syntax that allows the programmers to write some C# or Visual Basic code embedded in an html page and is used to create dynamic web pages. It was released by Microsoft for Visual Studio 2010 in January 2011 as part of ASP.NET MVC 3. What is Visual Studio? It is a tool, or technically speaking, an Integrated Development Environment (IDE) used to create applications, web sites, web applications and web services. It supports different programming languages like C#, as well as Visual Basic, C, C++, and provides support for Python and Ruby. Let's Start Developing Now that we know a little more about these software development technologies and we have all our ingredients, let's mix them. 1. Open Visual Studio 2012, go to "File/New" menu and click on "Project". A window like the following will open: 2. In this window, select within the Visual C# options, ASP.NET MVC 3 Web Application.3. Then in the following window, select the template "Empty", and "Razor" as View engine, and then click Ok. Now, you can see a web application Project created with the folders that you need: Models, Views, and Controller, plus the reference, app data, scripts, and other files. 4. Now right-click on the folder "Controllers" and "Add/Controller" and you'll see a window where you can enter the name of your controller. Let's name it "Index", and for the template option let's leave Empty Controller name because it's indicating that this one is a controller class. 5. Now, right-click on the folder "Models" and select Add/Class. Name this class whatever you want as this will be the Entity to show in the View. Let's name it "IndexModel" (the name doesn't have to include the word "index"). Then, add some properties to the class. For this example, let's add ID, Description and Comments properties. using System; using System: Collections.Generic; using System.Linq; using System.Web; namespace MyMvcApplication.Models { public class IndexModel { public int ID { get; set; } } } 6. Now, right-click on the folder "Views" and create a new folder named "Index" (as the controller). Then right-click on that folder and select Add/View. Let's name the view as "Index" also and as a result, we'll have a new "Index. cshtml". Now, that you've added our Controller, Model and View files created, let's add some code to the controller which will look like this: As you can see the methods that send models to the view commonly return an ActionResult, and these methods are called Actions. This action will send the data to a View with the same name by default unless you specify the name of another one in the "return View ()" clause. 8. Now, let's add some code to the view which will look like this. You have to add the reference to the Model at the top of the page. In this case, our Model is a list so that's why the word "IEnumerable" shows up in this View. If the Model was a single element, just say MyMvcApplication. Models. IndexModel. 9. Now, run the Project using your favorite browser, and make sure you add to the URL the action "Index". 10. That's it! We have our first MVC Application with ASP.NET MVC 3, using C# and Razor. Final Thoughts I hope you enjoyed this ASP .NET MVC tutorial. MVC is an interesting software development technology that allows you to organize our applications using these three layers. Therefore, it is a good approach when every member of a development team works only with part of the code, like the business logic for example (Back-End), and other developers work only with Front-End. However, just as there are different programming languages to leverage for an excellence and providing the best possible services. Learn more about our services today! This article was updated for comprehension purposes on August 23rd 2018. References: Model View Controller Razor view engine About the Author Rommel S. is a .NET developer with 7+ years of experience mostly in web applications. He likes analyzing, designing and developing applications and complex Information Systems. Data Access has been discontinued. Please refer to this page for more information. This article is relevant to entity models that utilize the deprecated Visual Studio integration of the Data Access. The current documentation of the Data Access framework is available here. In this task, you will create a new ASP.NET MVC web project that you can use as a starting point. for your application. To Create a ASP.NET MVC Web Project: Start Visual Studio, on the File menu select New, and then select Project and the p click OK. In the New ASP.NET MVC 4 Project dialog box, select Internet Application. Leave Razor as the default view engine. Click OK. Visual Studio will create a new ASP.NET MVC project. The next step is to create your model. It doesn't necessarily mean Telerik Data Access but any set of classes. At this point you need to make a choice which approach you want to use to create your model - Fluent Mapping API or Database First Approach. Both approaches are demonstrated in the next section. In this section, we will create a new MVC web application using Visual Studio and understand the basic building blocks of the ASP.NET MVC Application. We are going to use ASP.NET MVC v5.2, and Visual Studio 2017 community edition, and .NET Framework 4.6 to create our first MVC application. Downloads. Open Visual Studio 2017 and select File menu -> New -> Project, as shown below. Create a New Project in Visual Studio From the New Project dialog as shown below, expand Visual C# node and select Web in the left pane, and then select ASP.NET Web Application (.NET Framework) in the middle pane. Enter the name of your project MyMVCApplication. (You can give an appropriate name for your application). Also, you can change the location of the MVC application by clicking on Browse.. button. Finally, click OK. From the New ASP.NET Web Application dialog, select MVC (if not selected already) as shown below. Select MVC (if not selected already) as shown below. Select Authenctication Type Here, we are keeping the default authentication for our application which is No Authentication. Click OK to continue. Wait for some time till Visual Studio creates a simple MVC project using the default template, as shown below. MVC Project in Visual Studio creates a simple MVC project in debug mode or Ctrl + F5 to run the project without debugging. It will open the home page in the browser, as shown below. ASP.NET MVC Application MVC 5 project includes JavaScript and CSS files of bootstrap 3.0 by default. So you can create responsive web pages. This responsive UI will change its look and feel based on the screen size of the different devices. For example, the top menu bar will be changed in the mobile devices, as shown below. Responsive MVC Application In this way, you can create your ASP.NET MVC 5 application using Visual Studio 2017. Learn about ASP.NET MVC project's folder structure in the next section.

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