ASP.NET Core 3 Homework 02

Chapter 02, Pro ASP.NET Core 3

1 Readings

Read chapter 02, in the Pro ASP.NET Core 3 book.

2 Class Discussion Questions

Your written homework is due as directed. Format your homework in MarkDown. Be prepared to discuss

each of the following questions is class.

3 Homework Questions

1. What is the difference between Visual Studio and Visual Studio Code?

Visual Studio is the traditional development environment for .NET applications, and it offers an enormous range of tools and features for developing all sorts of applications. Visual Studio Code is a light-weight alternative that doesn’t have the bells and whistles of Visual Studio but is perfectly capable of handling ASP.NET Core development.

1. What is LocalDB?

LocalDB is a feature of SQL Server Express targeted to developers. Developer Tools can provide developers with a SQL Server Database Engine that lets them write and test Transact-SQL code without having to manage a full server instance of SQL Server.

3. What do these commands do?

dotnet new globaljson --sdk-version 3.1.101 --output FirstProject

dotnet new mvc --no-https --output FirstProject --framework netcoreapp3.1

The first command creates a folder named FirstProject and adds to it a file named global.json, which specifies the version of .NET Core that the project will use; this ensures you get the expected results when following the examples. The second command creates a new ASP.NET Core project.

4. What command do you use to build an ASP.NET project from the command line? What command

do you use to run the project?

Navigate to the FirstProject project folder, which is the folder that contains the FirstProject.csproj file; and run the command dot net run.

5. What is the purpose of an endpoint?

Incoming requests are handled by endpoints

6. What is a controller?

A controller contains the flow control logic for an ASP.NET MVC application. A controller determines what response to send back to a user when a user makes a browser request.

7. Where are actions defined?

Each public method defined by a controller

8. What is the purpose of the routing system?

It is responsible for selecting the endpoint that will handle an HTTP request.

9. Assume that your ASP.NET application runs in a browser with a URL like http://localhost:5000.

List the three default routes configured by the ASP.NET Core routing system.

/

/Home

/Home/Index

10. What does the ViewResult object instruct ASP.NET Core to do?

Calls a method to render a view

11. How does ASP.NET Core know what View is to be called from an action method?

By specifying the name of the view; it’s also the name of the method

12. What is the job of an action method?

Calls the view

13. What is a view model?

The data provided to the view from the controller