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-- File: ASP.NET C3 HW4

-- Date: August 20, 2020

-- 1. What are the .NET SDK command line tools used for?

They are used for creating, managing, building, and running projects.

Is their use required? No they are not required for Visual Studio but they are for Visual Studio Code. Why or why not?

-- 2. What kind of applications do the following templates create? Run these commands and read the

documentation. A brief summary of each template is suficient.

dotnet new console --help

This command list your options and a definiation of the terms. It is also used for creating a command-line application that can run on .NET Core on Windows, Linux and macOS.

dotnet new mvc --help This command is a project template for creating an ASP.NET Core application with example ASP.NET Core MVC Views and Controllers. The tempplate can also be used for RESTful HTTP services.

dotnet new web --help This is an empty template for creating an ASP.NET Core application and doesn't have any content in it.

-- 3. What, specifically, do the following commands do?

dotnet new globaljson --sdk-version 3.1.101 --output MySolution/MyProject

This command creates a MySolution/MyProject folder that contains a global.json file, which specifies that the project will use .NET Core version 3.1.1. The globaljson template helps ensure you get the results when following the examples in the book.

dotnet new web --no-https --output MySolution/MyProject --framework netcoreapp3.1

This command creates the project using the web template with minimum content required for ASP.NET Core development.

dotnet new sln -o MySolution

This command creates a solution file that references the new project.

dotnet sln MySolution add MySolution/MyProject

Same as previous

-- 4. What is the purpose of the global.json file?

Ensures the right version of the .NET Core SDK will be used by the project.

-- 5. What does the method app.UseStaticFiles() do?

UseStaticFiles() method adds StaticFiles middleware into the request pipeline. The UseStaticFiles is an extension method included in the StaticFiles middleware so that we can easily configure it. Now, open the browser and send http request http://localhost:<port>/default.html which will display default.

-- 6. What do the following two commands do?

dotnet build

Builds the example project.

dotnet run

Builds and runs the project in a single step.

-- 7. (not in book) You can manage pacakges using the NuGet package manager and the command line tool

dotnet add package. What are packages and what are they used for.

NuGet is a Package management system for Visual Studio. It makes it easy to add, update and remove external libraries in our application. Using NuGet, we can create our own packages easily and make it available for others. NuGet is a Package management system for Visual Studio.

The dotnet add package command provides a convenient option to add a package reference to a project file. After running the command, there's a compatibility check to ensure the package is compatible with the frameworks in the project.

-- 8. What are tool packages and what are they used for?

Tool packages install commands that can be used form the command line to perform operations on .Net Core projects.

-- 10. What are client side packages and what are they used for?

Client-side packages contain content that is deliverd to the client, such as images, CSS stylesheets, JavaScript files, and static HTML. They are added to ASP.NET using the library Manager (LibMan) tool.

-- 11. List two ways that a developer can debug code.

Select Debug, Toggle Breakpoint which is a red dot alongside the code statement.

Select Debug, Start Debugging