**CS 504 – Software Engineering**

**HOP01B – Hello World project with C# ASP .NET**

10/02/2020 Developed by Kim Nguyen

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**Before You Start**

* Version numbers may not match with the most current version at the time of writing. If given the option to choose between stable release (long-term support) or most recent, please choose the stable release rather than beta-testing version.
* This tutorial targets Windows users and MacOS users.
* There might be subtle discrepancies along the steps. Please use your best judgement while going through this cookbook style tutorial to complete each step.
* For your working directory, use your course number. This tutorial may use a different course number as an example.
* The directory path shown in screenshots may be different from yours.
* If you are not sure what to do or confused with any steps:
  1. Consult the resources listed below.
  2. If you cannot solve the problem after a few tries, ask a TA for help.

**Learning Outcomes**

Students will be able to:

* Create a Hello World web application using C# ASP .NET
* Run the application
* Customize the application
* Understand basic structures of project

**Resources:**

* Microsoft | ASP .NET - <https://dotnet.microsoft.com/apps/aspnet>

1. **Install .NET SDK:**

Download the .NET SDK package here: <https://dotnet.microsoft.com/download>

**(Make sure to choose the “Build Apps” version)**

For Mac:

**![Graphical user interface, application, Teams

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For Windows:

**Graphical user interface, application, Teams

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Then, follow the below video instruction to install .NET SDK package:

<https://youtu.be/yWxkXKP4vFo>

*.NET SDK (Software Development Kit) is a set of libraries and tools that allow developers to create .NET Core applications and libraries. It contains the following components that are used to build and run applications. More about .NET SDK:* [*https://docs.microsoft.com/en-us/dotnet/core/sdk*](https://docs.microsoft.com/en-us/dotnet/core/sdk)

1. In Visual Studio Code, open the private repository generated when you accepted the HOP01 assignment, NOT the one you created in HOP01A. (If you cannot find that repository in your machine, you might have not cloned the repo, if so, please do before proceeding).

A screenshot of a cell phone

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Open the terminal from the VSCode by hitting the control + ~ key, navigate into Module 1 folder using the following command:

>>> cd Module 1

1. Create a web application using C# .NET Core:

Follow the below video instruction to create a C# web application:

<https://youtu.be/t2rWMaj8yT0>

1. Run the application:

Follow the below video instruction to run the C# web application you just created:

<https://youtu.be/I2d8NOWsLUg>

1. Customize the application:

Follow the below video instruction to customize the application:

<https://youtu.be/MUDkVozTa0k>

**Challenge**:

Add day of the week to the home page, expected result:

Graphical user interface, text, application, email

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