C# Assignment 0

By: Christine Bittle

This assignment aims to set up your computer for work! If you run into problems, let your instructor know as soon as possible.

Task 1: Create a .NET Core WebAPI project. Include a screenshot of the server running, and a response from your localhost environment. Step by Step instructions are provided. Example:



Tools:

NOTE: We will use Visual Studio Community Edition for Windows in class and with examples, as it is the easiest to work with.

(Recommended) <u>Visual Studio Community Edition Windows</u> (Step By Step Instructions at bottom)

- Workloads ASP.NET and Web Development (Tools > Get Tools and Features)
- Make sure you have .net project and item templates.
- Create a new project
- ASP.NET Core Web API
- Enter {ProjectName}
- .NET 8.0
- [x] Configure For HTTPS
- [x] Enable OpenAPI Support
- [x] Use Controllers
- Run project with F5 or clicking the "Green Play Button"

(Option for Mac + Visual Studio Code) Visual Studio Code + .NET SDK + C# Dev Kit

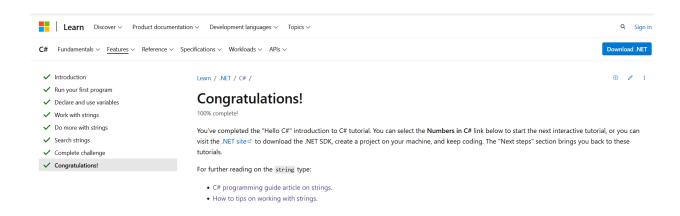
- Explorer / New Folder
- Select folder, "Trust Authors of Folder"
- View > Command Pallet
- .NET New Project
- ASP.NET Core WebAPI
- Show Template Options
- Use Controllers > True
- Enter {ProjectName}
- Create Project
- Click Program.cs
- Run and Debug

(Not Recommended) Command Prompt / Terminal with .NET SDK

- Open Powershell / Terminal
 - > dotnet --version
 - > mkdir {ProjectName}
 - > cd {ProjectName}
 - > dotnet new webapi --use-controllers --framework net8.0
 - > dotnet run
- Highlight the "localhost:xx" address, right click to copy
- Put the address into your browser
- Change to localhost:xx/Swagger/Index.html

Task 2:

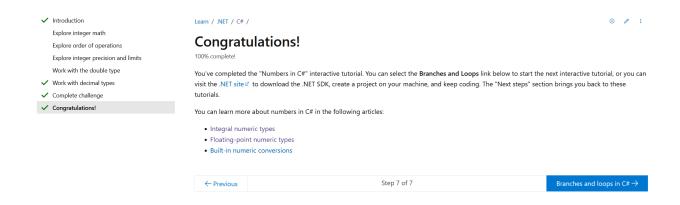
Complete the <u>Hello World!</u> Tutorial. Include a screenshot of the congratulations message. Tools: Browser



Task 3:

Complete Numbers in C# Tutorial. Include a screenshot of the congratulations message.

Tools: Browser



Task 4:

Use git to clone a project from the course site. You should be able to run it the same way you ran your project in Task 1. Include a screenshot of the repository.

Tools:

(Recommended) <u>Visual Studio Community Edition Windows</u>

Navigate to a repository posted in the Learning Module Content

Clone a Repository

Grab the repository URL from Github (example: https://github.com/christinebittle/DataTypes.git)

Clone Project

<u>Git</u>

> git clone repository_url.git

Hooray! You're all set up.

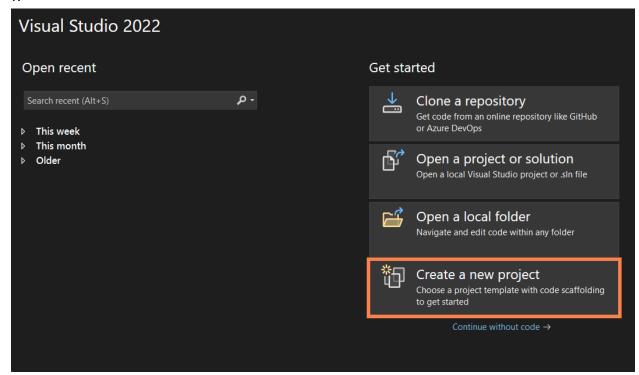
Task 1: Complete / Incomplete Task 2: Complete / Incomplete

Task 3: Complete / Incomplete

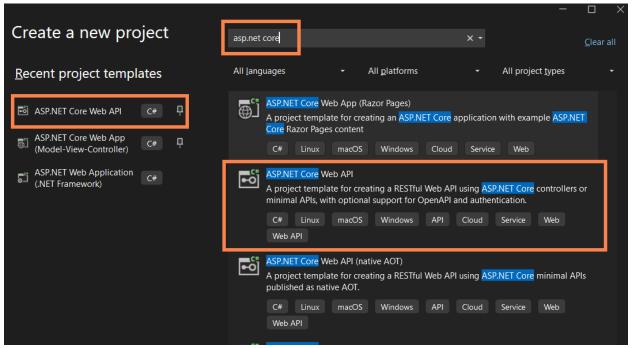
Task 4: Complete / Incomplete

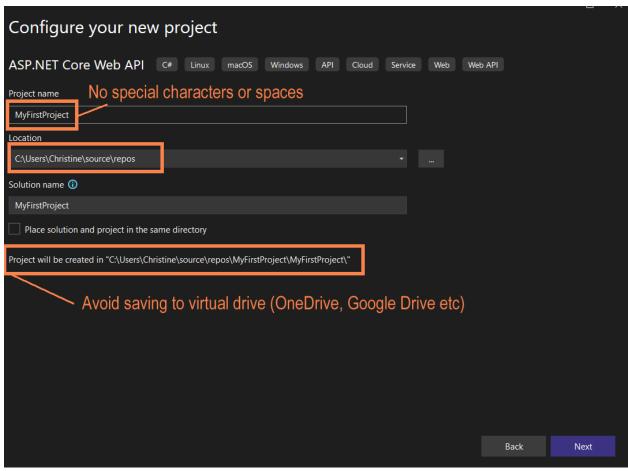
Step By Step for Visual Studio

1.

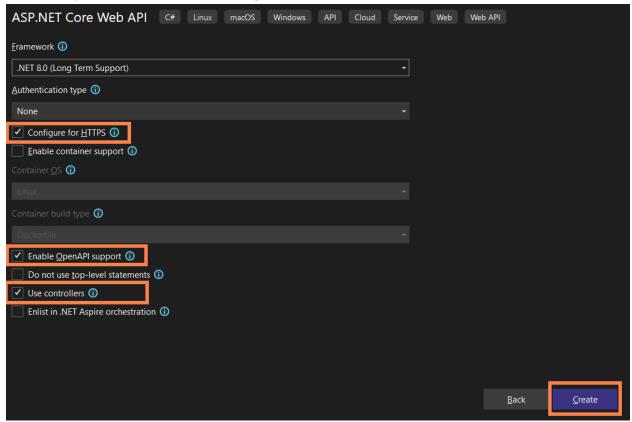


2. (If you don't see ASP.NET Core WebAPI, refer to steps 7-9)

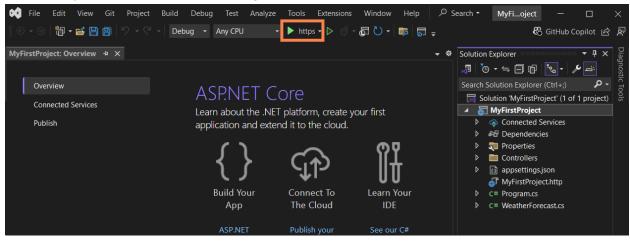




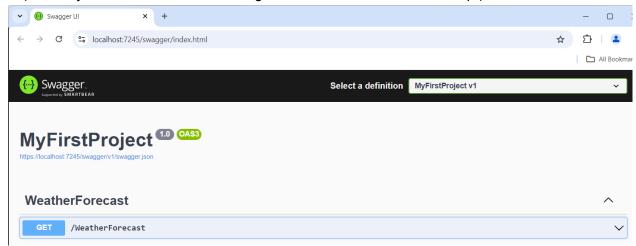
4. (You may be warned about a 'self-signed certificate', click Yes / Accept)



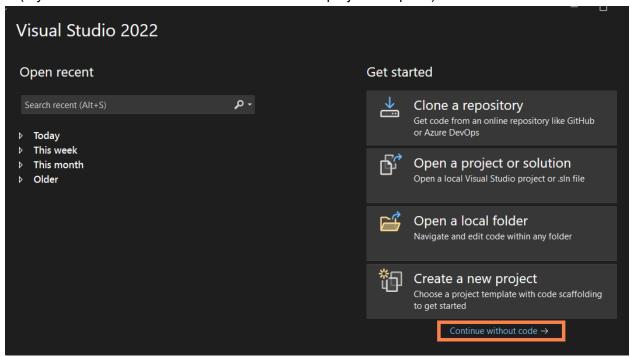
5. (You may be warned about a 'self-signed certificate', click Yes / Accept)



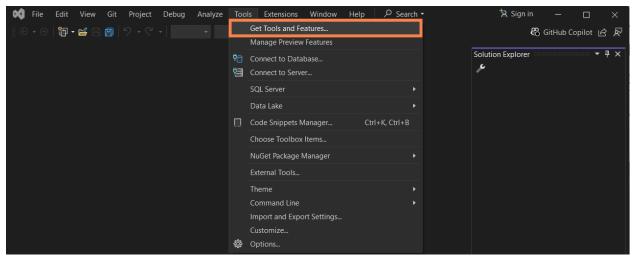
6. (You may be warned about a 'self-signed certificate', click Yes / Accept)



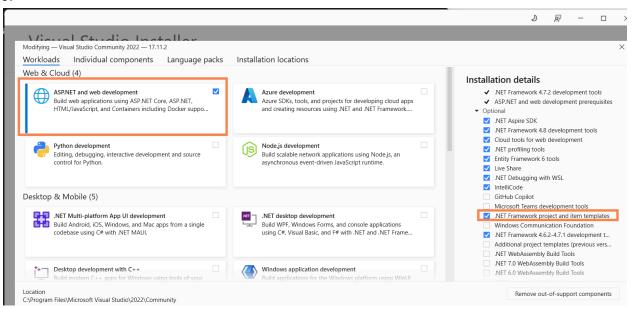
7. (If you do not see ASP.NET Core WebAPI as a project template)



8.

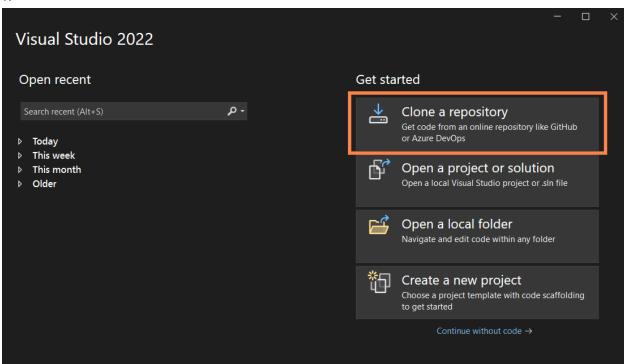


9.

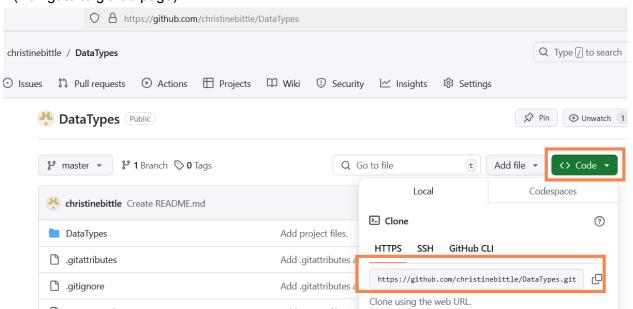


Clone a project through Visual Studio

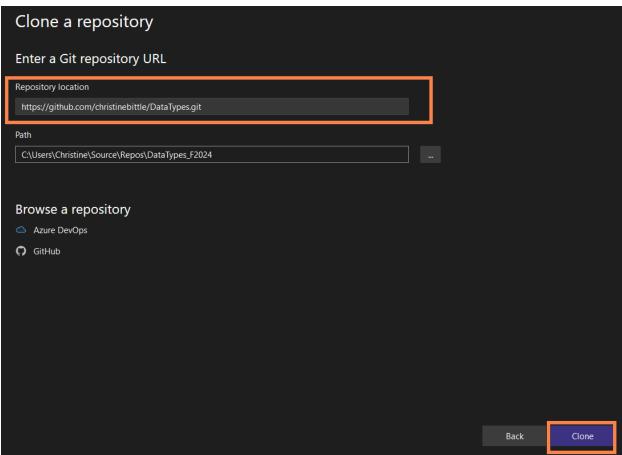
1.



2 (Navigate to github page)



3.



4.

