LAB 7 - C# ASP.NET MVC Framework Setup

We are headed towards the study of RESTFUL API's.
https://www.geeksforgeeks.org/rest-api-introduction/

In order to prepare for this we are going to setup and learn about using an MVC framework, which will help simplify the process of implementing a RESTFUL API. In this lab we will follow a tutorial to set up an ASP.NET MVC Web Application Project.
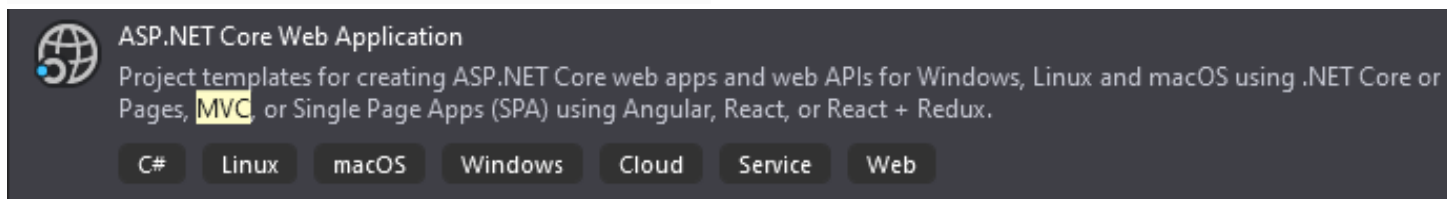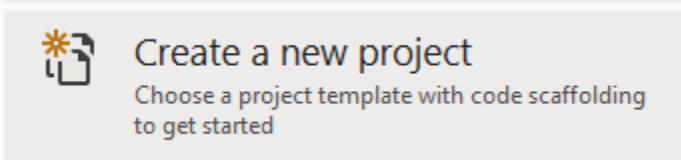
Prerequisites
None

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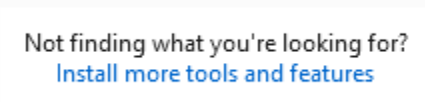### Installing ASP.NET Packages for Visual Studio

We will be using Visual Studio's ASP.NET Web Development Package to create a new ASP.NET Web Application.

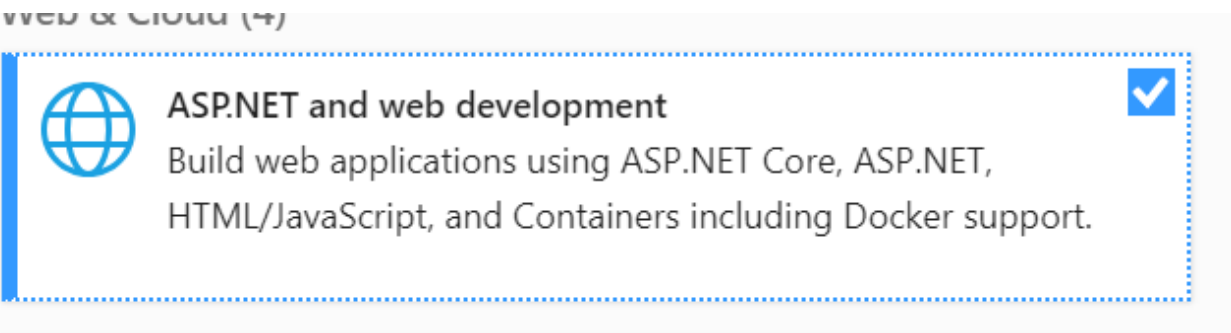When you Create a new Project, search for MVC

Create a new project
Choose a project template with code scaffolding to get started

ASP.NET Core Web Application
Project templates for creating ASP.NET Core web apps and web APIs for Windows, Linux and macOS using .NET Core or Pages, MVC, or Single Page Apps (SPA) using Angular, React, or React + Redux.

C#   Linux   macOS   Windows   Cloud   Service   Web

Make sure you select **ASP.NET *Core* Web Application**
If you don't find this, then scroll down until you get to:

Not finding what you're looking for?
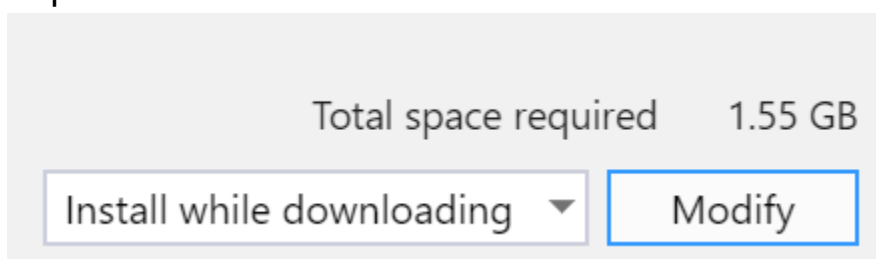Install more tools and features

And click "Install more tools and features"
Search for ASP.NET and install it:

ASP.NET and web development
Build web applications using ASP.NET Core, ASP.NET, HTML/JavaScript, and Containers including Docker support.

Expect a 1.55GB download

Total space required   1.55 GB

Install while downloading ▼   Modify

Work through the ASP.NET MVC Tutorial
Thoroughly read, and complete the tutorial located at:

https://www.tutorialspoint.com/asp.net_core/asp.net_core_setup_mvc.htm

Complete each of the following sections:
- ASP.NET Core MVC - Home
- ASP.NET Core MVC - Overview
- ASP.NET Core MVC - MVC Design Pattern
- ASP.NET Core MVC - Environment Setup ←--- **Refer to Installation Section Above if you there are problems.**
- ASP.NET Core MVC - Setup MVC
- ASP.NET Core MVC - Routing
- ASP.NET Core MVC - Action Results
- ASP.NET Core MVC - Views

Answer These Questions
1. The whole idea behind using the Model View Controller design pattern is that you maintain a _____.
2. List 2 of the 6 "benefits of using ASP.NET MVC"
3. What was the MVC pattern originally called in 1979?
4. What is the name of the first controller added in the tutorial?
5. The Entry point for every MVC application begins with what?

Create A Custom Route
Now, prove you understand how to create a new route.
Create a new route that accomplishes the following:

- **http://localhost:61465/Me/Name** should return your name and the grade you expect to receive for this assignment. (Be Generous)

Take A Screenshot of your browser displaying both of these routes. The URL as well as your name/grade should be clearly visible.

Deliverables:

Deliver to Canvas The following:

1. A document with the questions above answered.
2. A screenshot of your custom route running in the browser, with the URL and your name showing.

Place the deliverables into a single document, then upload it to the LAB 9 Submission on Canvas.