

PRACTICE #02

Course: Web Programming

Lesson: Building an ASP.NET Web page with ASP.NET Core 8 MVC

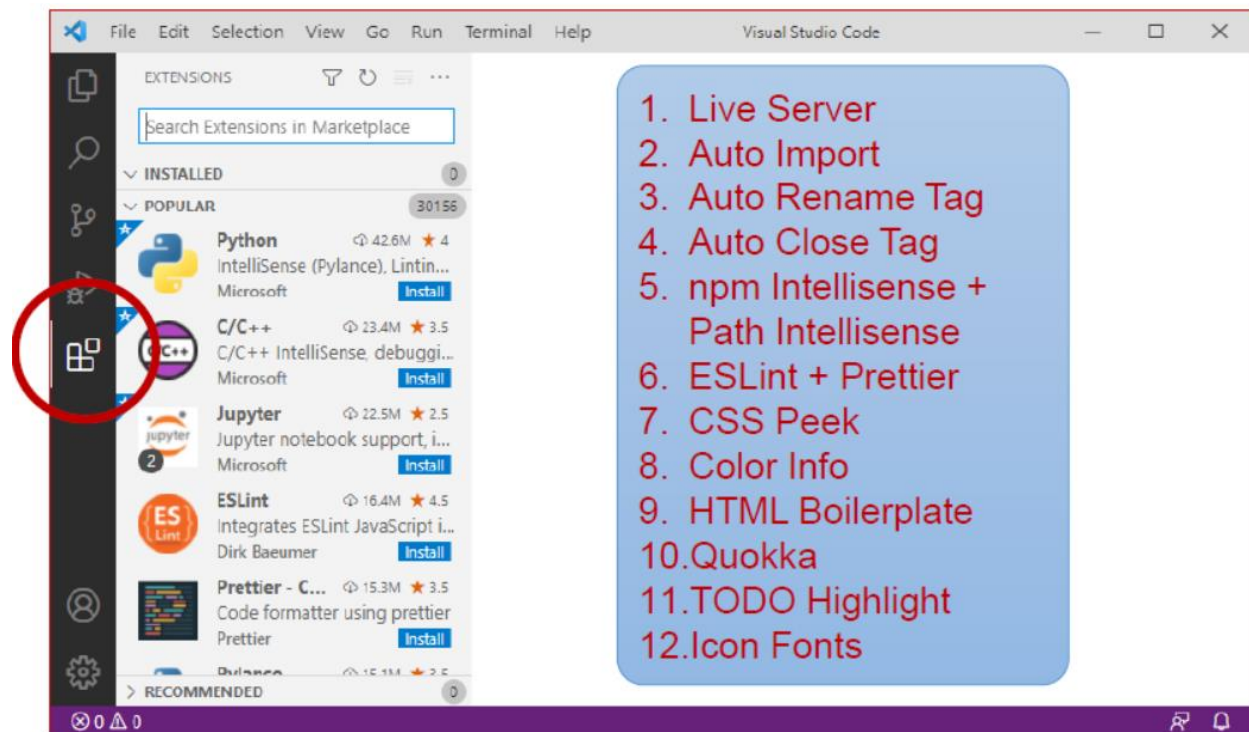
A. Objectives

- Use Visual Studio Code to develop a website;
- Develop a website based on .NET CORE 8 MVC;
- Link data from a database to a website;
- Analyze the database for a part of a website (menu area).

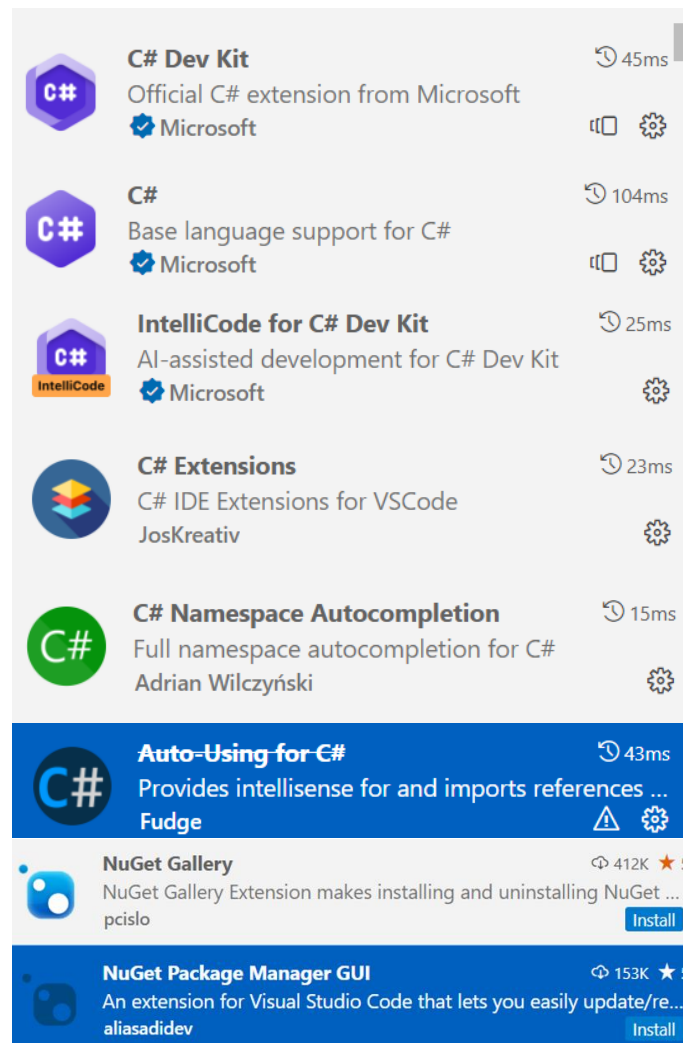
B. Preparation (do it for the first time)

1. Run VS Code, install the following extension:

- Extensions for HTML, CSS



- Extensions for ASP.NET and C#



2. Close and restart VS Code.

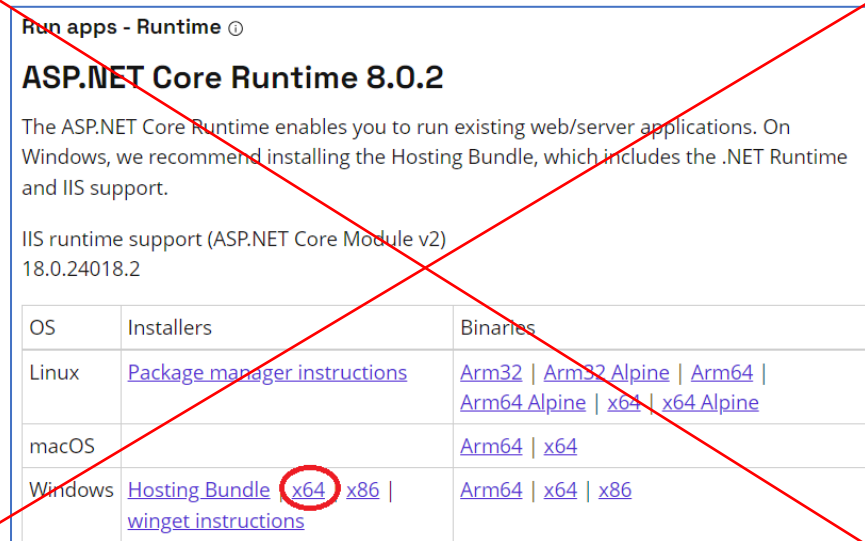
3. SDK and ASP.NET Core Runtime

+ Open website: <https://dotnet.microsoft.com/en-us/download/dotnet/8.0>

+ Download and install SDK 8.x.x

Build apps - SDK		
SDK 8.0.201		
OS	Installers	Binaries
Linux	Package manager instructions	Arm32 Arm32 Alpine Arm64 Arm64 Alpine x64 x64 Alpine
macOS	Arm64 x64	Arm64 x64
Windows	Arm64 x64 x86 winget instructions	Arm64 x64 x86
All	dotnet-install scripts	

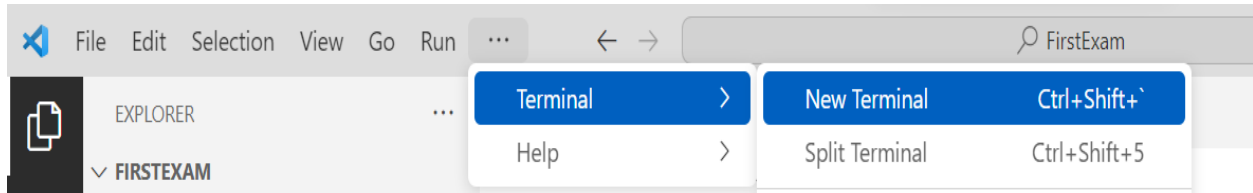
+ ~~Download and install ASP.NET Core Runtime~~



C. Instruction

1. Create a folder name: ASPNET in D driver (D:\ASPdotNET)
2. Run VS Code, open the folder ASPdotNET;
2. Create a new ASP .NET CORE 8 MVC project

+ Select **New Terminal** from the **Terminal** menu to open the integrated terminal.



+ Run the following command to create a new new ASP .NET project

`dotnet new mvc -o aznews`

+ Close VS Code

+ Open VS Code again, open the folder **aznew** (File\Open Folder, choose the **aznew** folder in D:\ASPdotNET)

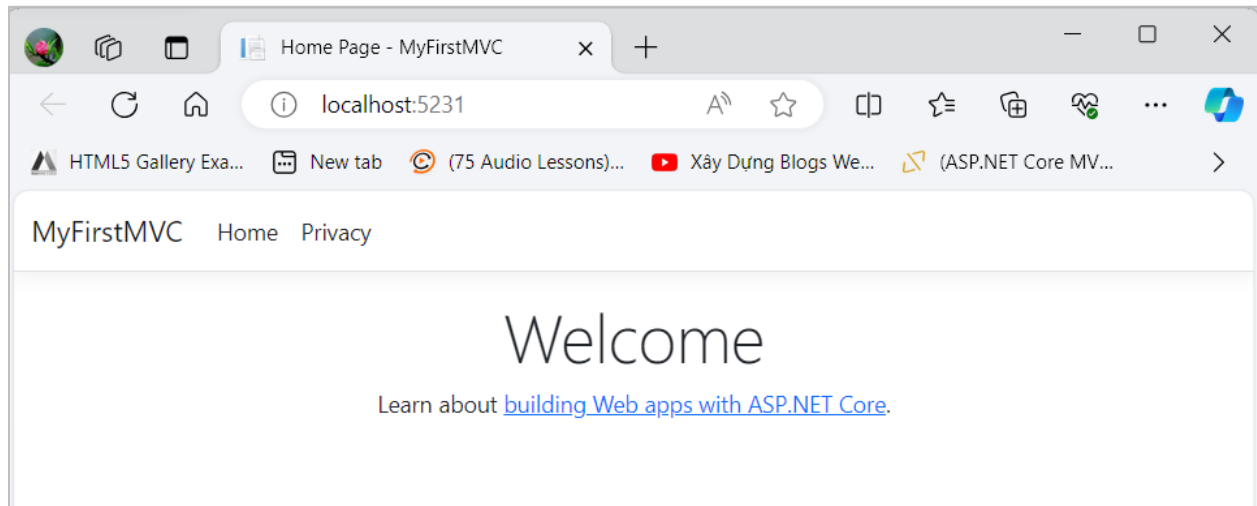
3. Trust the HTTPS, using the following command in the terminal:

`dotnet dev-certs https --trust`

4. Run project by using the following command:

`dotnet watch run`

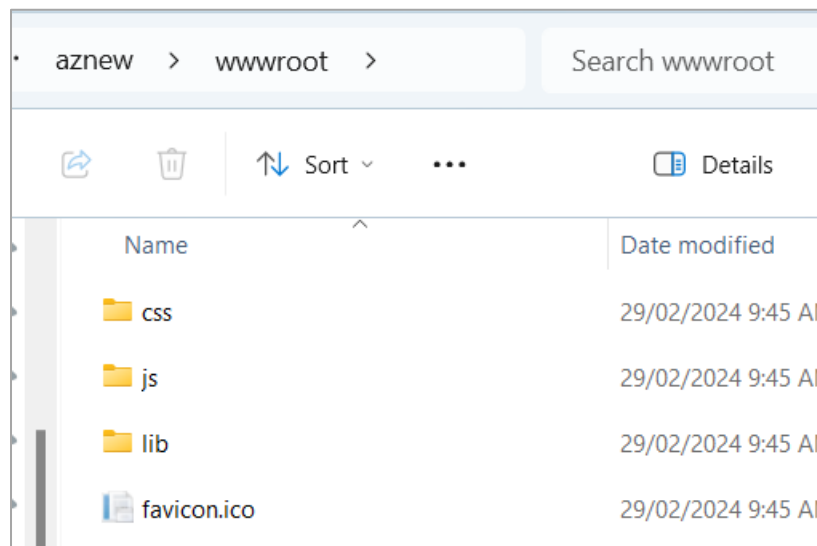
5. See the following interface



6. Reference link: <https://www.youtube.com/watch?v=7jOI9sh08nA>

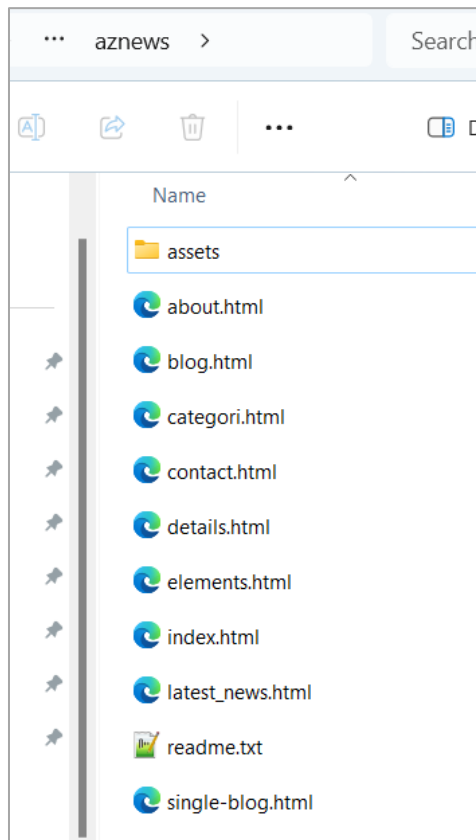
D. Adding a template to an ASP.NET CORE MVC project.

1. Open the folder **aznews** in D:\ASPdotNET, open the folder **wwwroot**, delete all files and folders in this folder (see picture below).

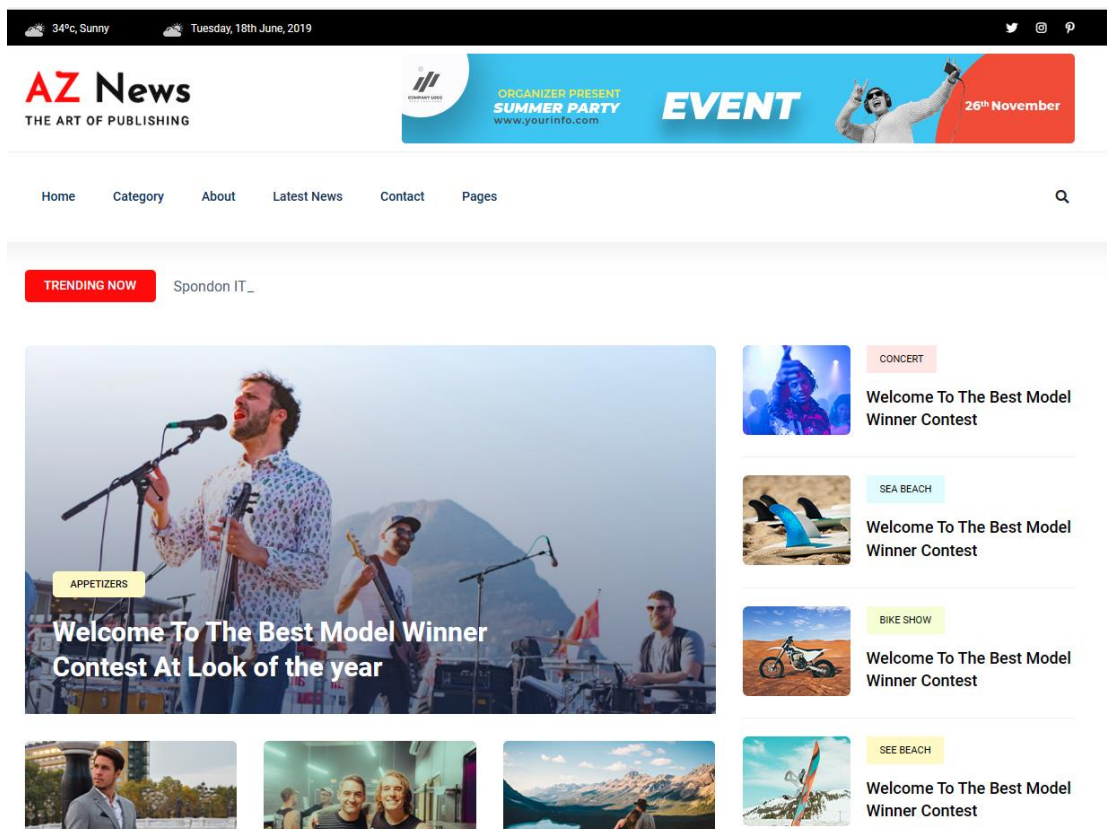


2. Download the template **aznews** (aznews.rar)

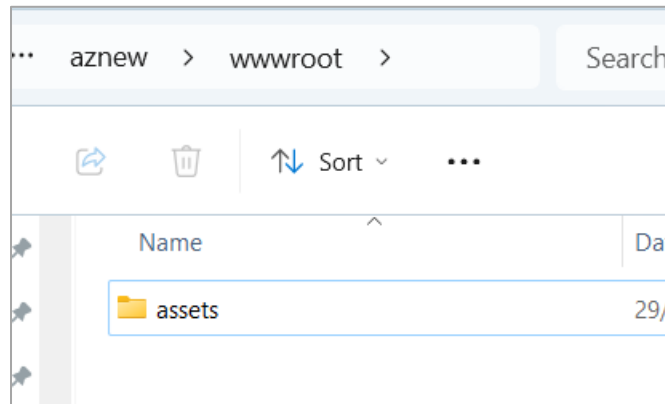
- Unzip the file aznews.rar
- See the following files and folders:



- Run the **index.html** file, you can see the following interface:

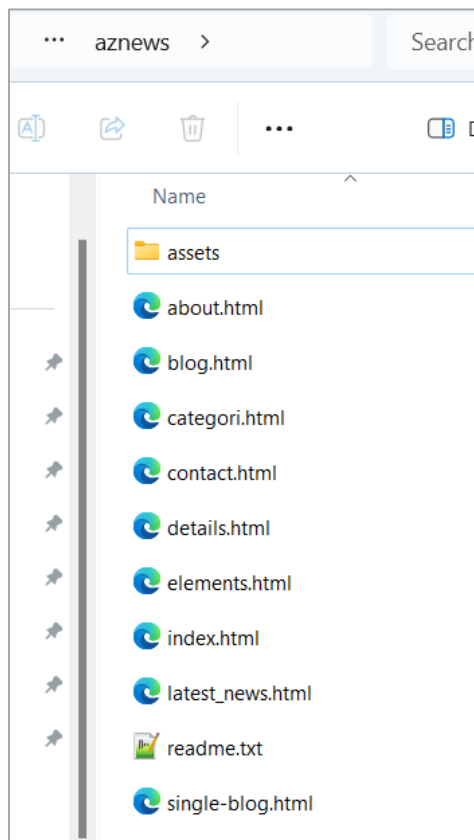


3. Copy the folder **assets** in **aznews** folder to **wwwroot** in the step 1



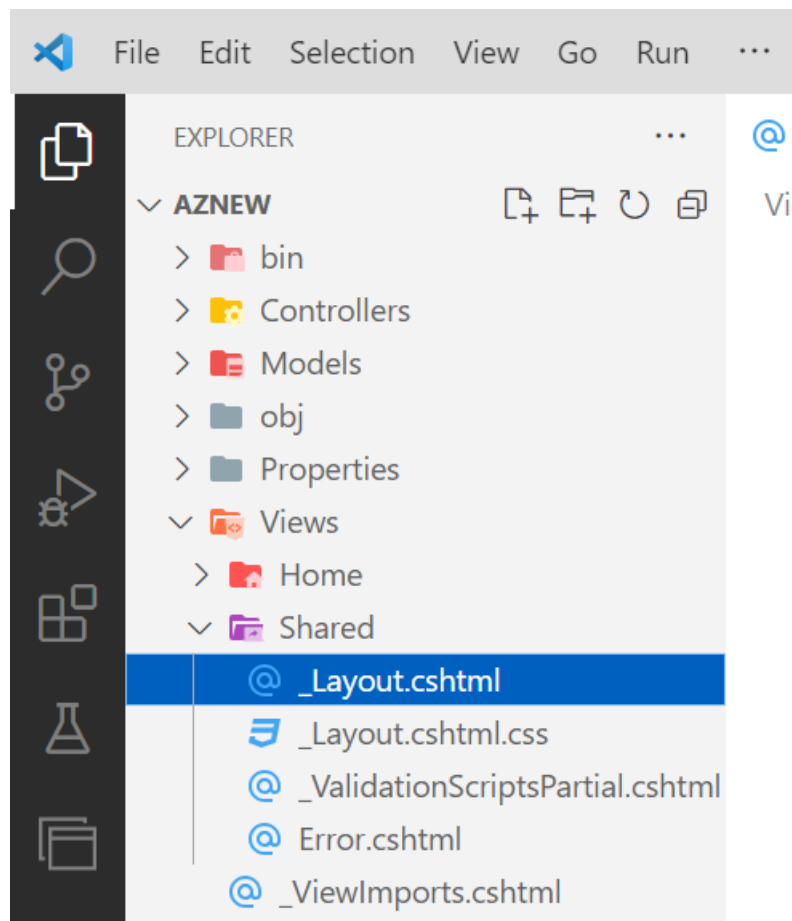
4. Open VS Code, open the folder aznews (file open folder, choose aznews in the folder D:\ASPdotNET)

- Open the file index.html file in the folder (after unzip the file aznews.rar)



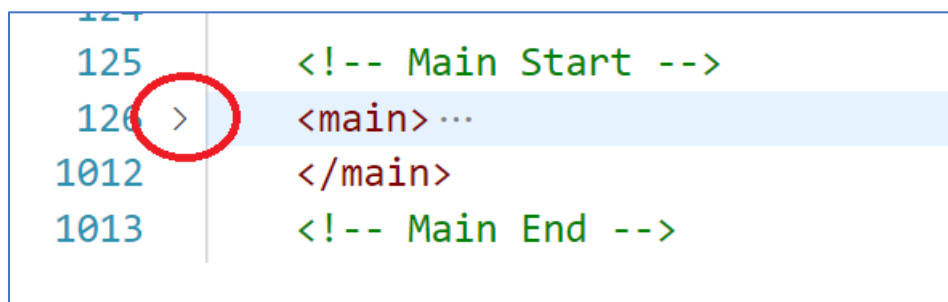
- Copy all the content of the **index.html** file

- Open the file **_Layout.cshtml** in the Views/Shared

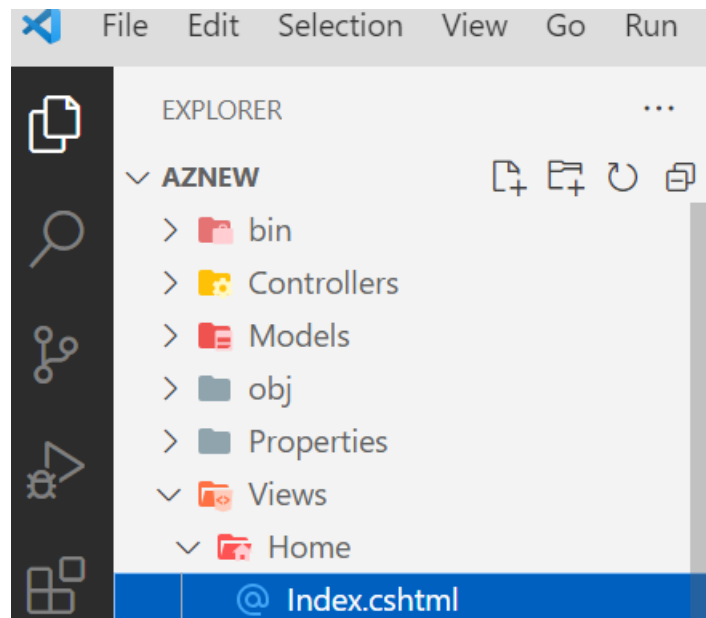


- Select all content in the _Layout.cshtml (CTRL + A)
- Use (CTRL + V) to replace this content.

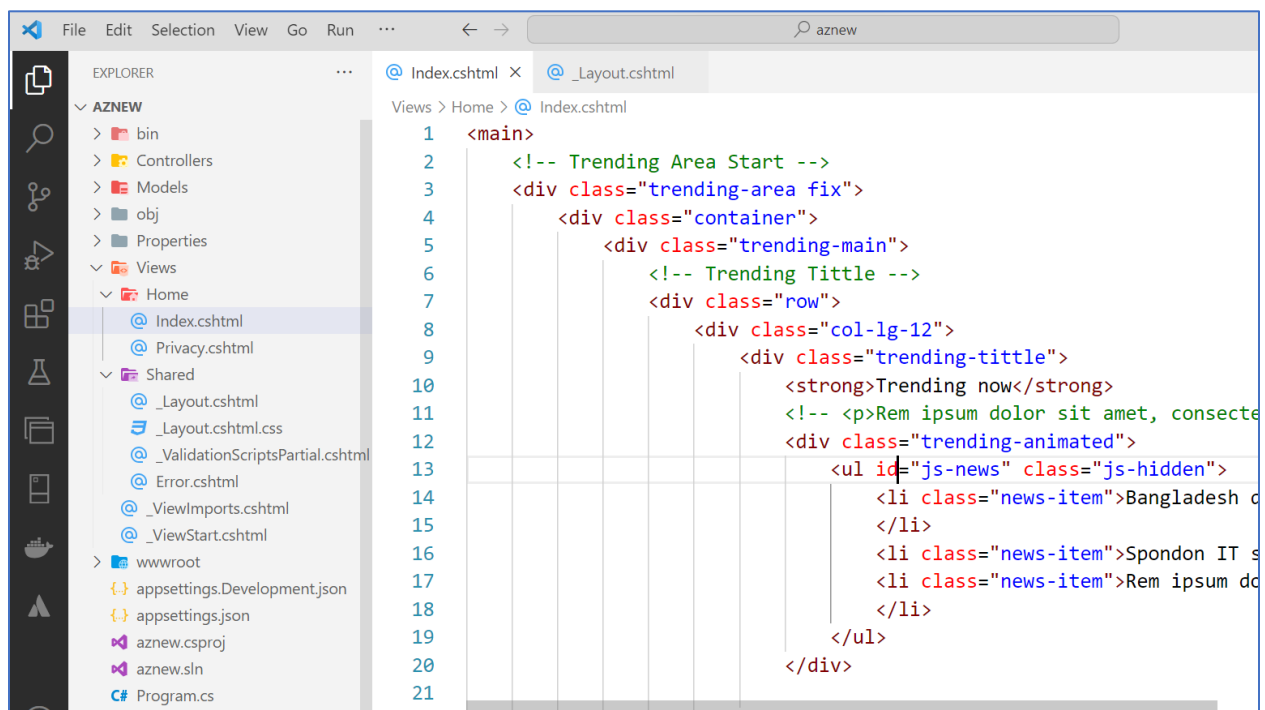
5. Open _Layout.cshtml



- Click the arrow > to collapse/expand the main section
- Cut all from <main> ... </main> (CTRL+X) and replace the content in the file Index.cshtml in the folder Views/Home (Open Index.cshtml in Views/Home, CTRL + A, CTRL + V)



- The content of the file **Index.cshtml**



- Open the file **_Layout.cshtml** again

- Add the line bellow:


```

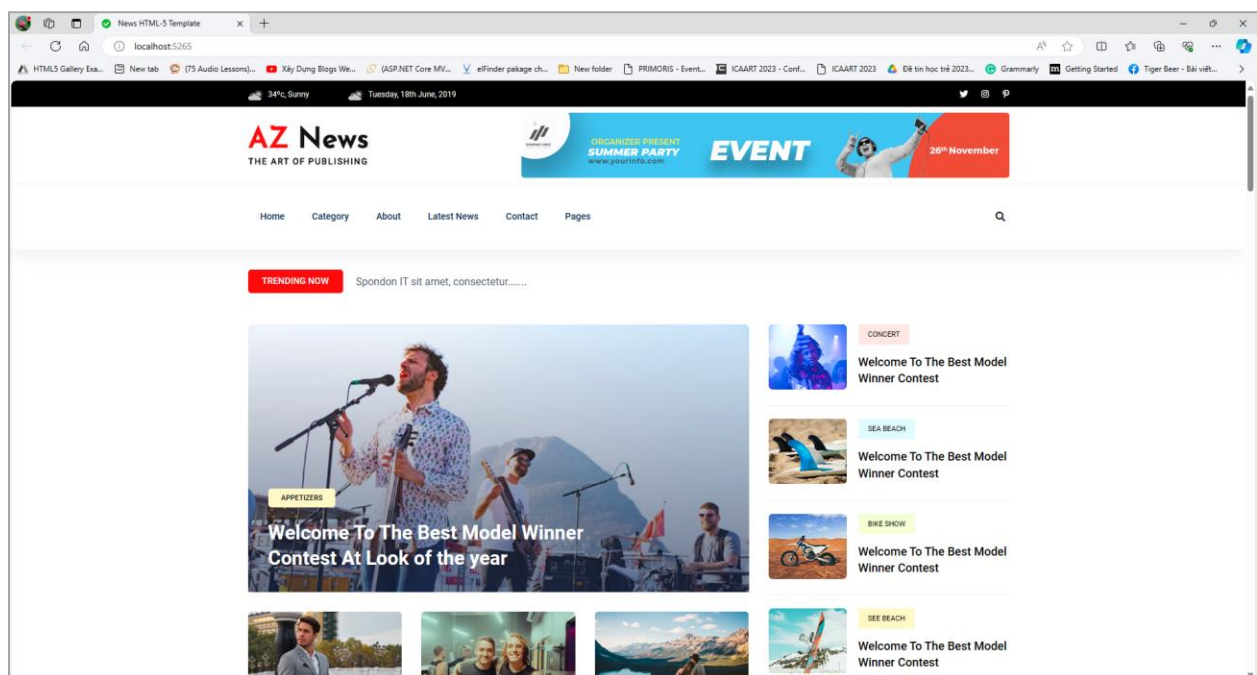
121 </div>
122 <!-- Header End -->
123 </header>
124
125 <!-- Main Start -->
126 @RenderBody()
127 <!-- Main End -->
128 <footer>
129 <!-- Footer Start-->
130 <div class="footer-area footer-padding fix">

```

6. Using the following command in the terminal

dotnet watch run

- The following interface will be displayed



- You can download more templates and try how to add a template to an ASP.NET CORE MVC project.