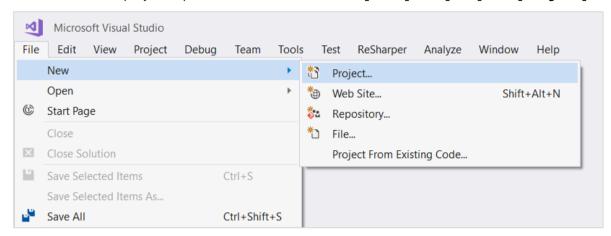
Lab: ASP.NET Overview

1. About Page

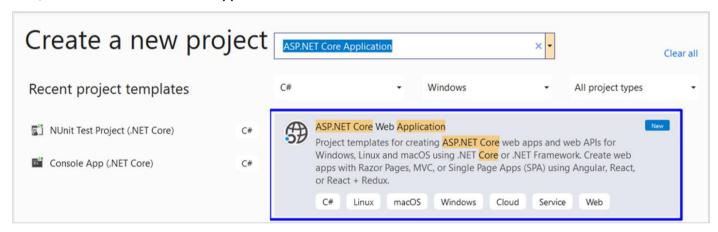
Create an MVC application with About page.

Create New Project

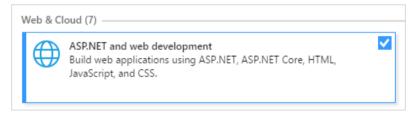
Let's create a new project. Open Visual Studio and click on [File] -> [New] -> [Project]:



Next, search for ASP.Net Core Application and choose the one shown below:



If you don't have it in the selection, click [Open Visual Studio Installer] and install the "ASP.NET and web development" component:



Next, choose the MVC template. After that, make sure to change authentication type to "No authentication":







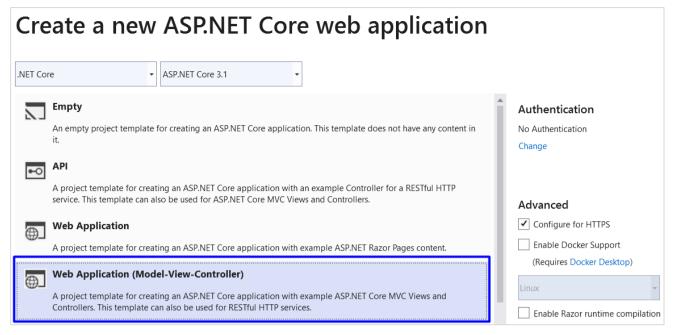








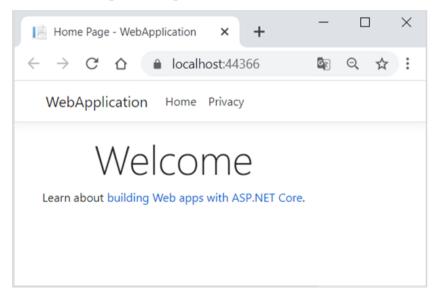




At this point, we should have the project created and in front of us.

Run the Project

Let's run it with [Ctrl+F5] and see what we have:



Update Layout View

Now it's time to go into the "Views/Shared/_Layout.cshtml" file and edit it a bit. For starters, let's update the header link, which usually says "WebApplication" to something nicer:

```
<body>
    <header>
        <nav class="navbar navbar-expand-sm navbar-toggleable-sm"</pre>
             navbar-light bg-white border-bottom box-shadow mb-3">
             <div class="container">
                 <a class="navbar-brand" asp-area=""</pre>
                    asp-controller="Home" asp-action="Index"; WebApplication (/a>
```





















```
<body>
    <header>
        <nav class="navbar navbar-expand-sm navbar-toggleable-sm"</pre>
             navbar-light bg-white border-bottom box-shadow mb-3">
             <div class="container">
                 <a class="navbar-brand" asp-area=""</pre>
                    asp-controller="Home" asp-action="Index">My App
```

Add an Action

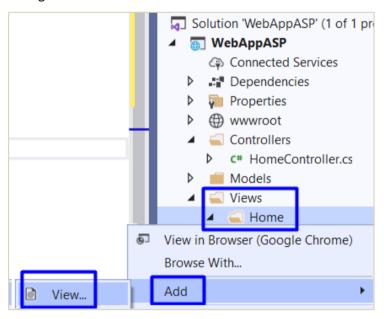
Let's go to **Controllers** -> **HomeController.cs** and add a new **About** action the following way:

```
public ActionResult About()
{
    ViewBag.Message = "Your application description page.";
    return View();
}
```

Add a View

Now we need an About view for our controller, which will be our About.cshtml file.

Let's go to Views -> Home -> Add -> View:



Choose [Razor View] and name it "About".







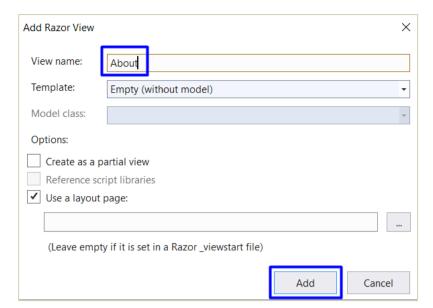




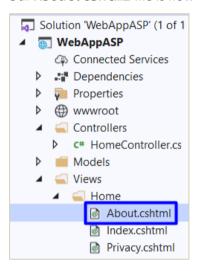








Our About.cshtml file is now created.



Modify the view the following way:

```
@{
   ViewBag.Title = "About";
<h2>@ViewBag.Title</h2>
<h3>@ViewBag.Message</h3>
Use this area to provide additional information.
```

Change the Page Layout

Go to Views -> Shared -> Layout.cshtml and add a new tag in the navigation as shown below:

```
<div class="navbar-collapse collapse d-sm-inline-flex flex-sm-row-reverse">
   class="nav-item">
         <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Index">Home</a>
      <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Privacy">Privacy</a>
      <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="About">About</a>
```







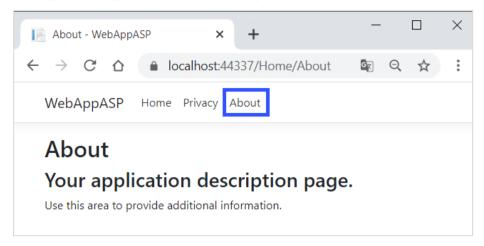






Run the Project

Press [Ctrl+F5]. Let's see what we've got:



2. Print the Numbers 1...50

Create an MVC application, which **prints** the numbers from 1 to 50 inside a view.

Add an Action

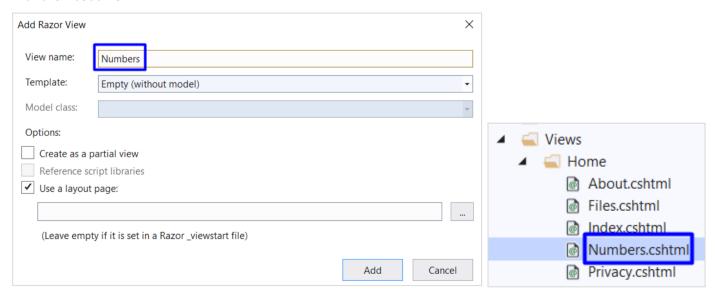
Let's go to **Controllers** -> **HomeController.cs** again and add a new **Numbers** action like this:

```
public ActionResult Numbers()
{
    return View();
```

Add a View

Now we need a Numbers view for our controller, which will be our Numbers.cshtml file.

Let's go to Views -> Home -> Add -> View and create a Razor View with name "Numbers" like we already did with the About view.



Modify the view the following way:













```
@{ ViewBag.Title = "Nums 1 ... 50"; }
<h2>@ViewBag.Title</h2>
<l
   @for (int i = 1; i <= 50; i++)</pre>
       @i
```

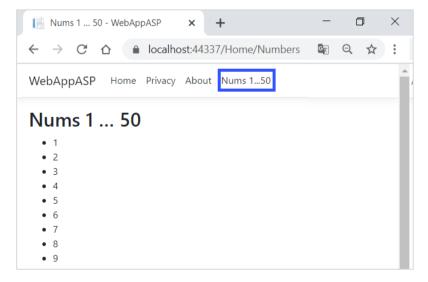
Change the Page Layout

Go to Views -> Shared -> Layout.cshtml and add a new tag in the navigation as shown below:

```
<div class="navbar-collapse collapse d-sm-inline-flex flex-sm-row-reverse">
   <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Index">Home</a>
          <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Privacy">Privacy</a>
      <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="About">About</a>
       kli class="nav-item">
          <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Numbers">Nums 1...50</a</pre>
        /li>
```

Run the Project

Press [Ctrl+F5]. Let's see what we've got:



3. Print the Numbers 1...N

Create an MVC application, which **prints** the numbers from **1** to **N** inside a view. We will modify the previous task.

Modify the Action

Let's go to Controllers -> HomeController.cs and modify the Numbers action from the previous task like this:

















```
public ActionResult Numbers(int count = 5)
{
    ViewBag.Count = count;
    return View();
}
```

Modify the View

Modify the **Numbers** view the following way:

```
@{ ViewBag.Title =
    "Nums 1 ... " + ViewBag.Count; }
 <h2>@ViewBag.Title</h2>
⊟
     @for (int i = 1; i <= ViewBag.Count; i++)</pre>
         @i
 □@using (Html.BeginForm())
     @Html.TextBox("count");
     <input type="submit" />
 }
```

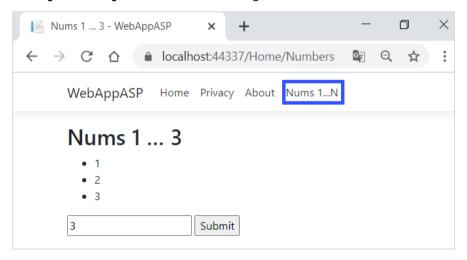
Change the Page Layout

Go to Views -> Shared -> Layout.cshtml and change the name of the <a> tag so that it corresponds to our current task:

```
<a class="nav-link text-dark" asp-area="" asp-controller="Home"</pre>
      asp-action="Numbers">Nums 1...N
```

Run the Project

Press [Ctrl+F5]. Let's see what we've got:



5. List Files

Create an action **Files** to show the folders and files in **C:**.













Add an Action

Let's go to Controllers -> HomeController.cs again and add a new Files action like this:

```
public ActionResult Files()
{
    var path = @"C:\";
    var files = Directory
      .GetDirectories(path)
      .ToList();
    files.AddRange(
      Directory.GetFiles(path));
    return View(files);
}
```

Add a View

Create a view with name "Files" and modify Files.cshtml file like this:

```
@{ ViewBag.Title = "Files"; }
<h2>Listing files in C:\</h2>
@model List<string>
@foreach (var file in Model)
{
    <div> @file </div>
}
```

Change the Page Layout

Go to Views -> Shared -> _Layout.cshtml and add a new tag in the navigation.

```
<a class="nav-link text-dark" asp-area=""</pre>
     asp-controller="Home" asp-action="Files">List Files</a>
```

Run the Project

Press [Ctrl+F5]. The result should be something like this:

