

ASP.NET Core MVC 3.1

Tahaluf Training Center 2021



Chapter 4

- 1 **Layout Page**
- 2 **Create New Layout Page**
- 3 **Home page**



Layout Page

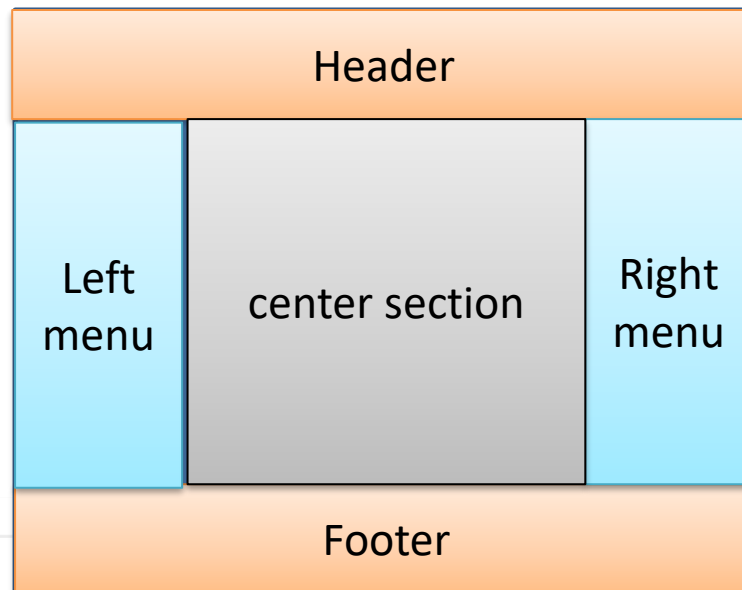
Layout Page:

- The layout view used to define a common website template, which can be inherited in multiple pages to provide a consistent look in multiple pages of an application.
- The layout view eliminates duplicate coding and enhances development speed and easy maintenance because we don't have to write the same code in every page.



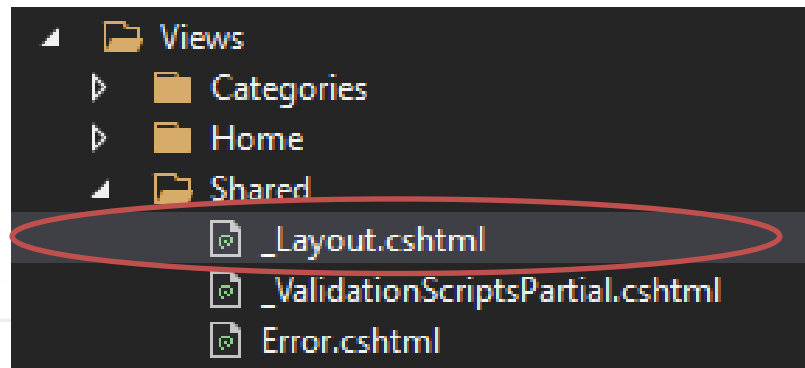
Layout Page:

For example, an application UI may contain a header, left menu bar, right menu bar, and footer section that remains the same on every page. Only the center section changes dynamically, as shown below.



Layout Page:

- The layout view has the same extension as other views, .cshtml.
- Layout views are shared with multiple views, so it must be stored in the Shared folder.
- By default, a layout view `_Layout.cshtml` is created when you Create MVC application using Visual Studio



The following is the default _Layout.cshtml.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>...</head>
10 <body>
11 <header>
12 <nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-light b
31 </header>
32 <div class="container">
33 <main role="main" class="pb-3">
34 @RenderBody()
35 </main>
36 </div>
37
38 <footer class="border-top footer text-muted">...</footer>
43 <script src="~/lib/jquery/dist/jquery.min.js"></script>
44 <script src="~/lib/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
45 <script src="~/js/site.js" asp-append-version="true"></script>
46 @RenderSection("Scripts", required: false)
47 </body>
48 </html>
```



- The layout view contains: HTML Doctype, Head, Body and Footer tags.
- The only difference is a call to **RenderBody()**.
- The child views will be displayed where the RenderBody() is called.
- Layout view **must** include the RenderBody() method.
- Multiple RenderBody() methods are **NOT allowed** in a single layout view.



How to assign layout value in view page ?

```
@{  
Layout = "~/Views/Shared/_Layout.cshtml";  
}
```

Layout page name

Path



Example:

Home index view

```
@{  
    ViewData["Title"] = "Home Page";  
    Layout = "~/Views/Shared/_Layout.cshtml";  
}  
  
<div class="text-center">  
    <h1 class="display-4">Welcome</h1>  
    <p>Learn about  
    <a href="https://docs.microsoft.com/aspnet/core">  
        building Web apps with ASP.NET Core</a>.</p>  
</div>
```

defined Layout page

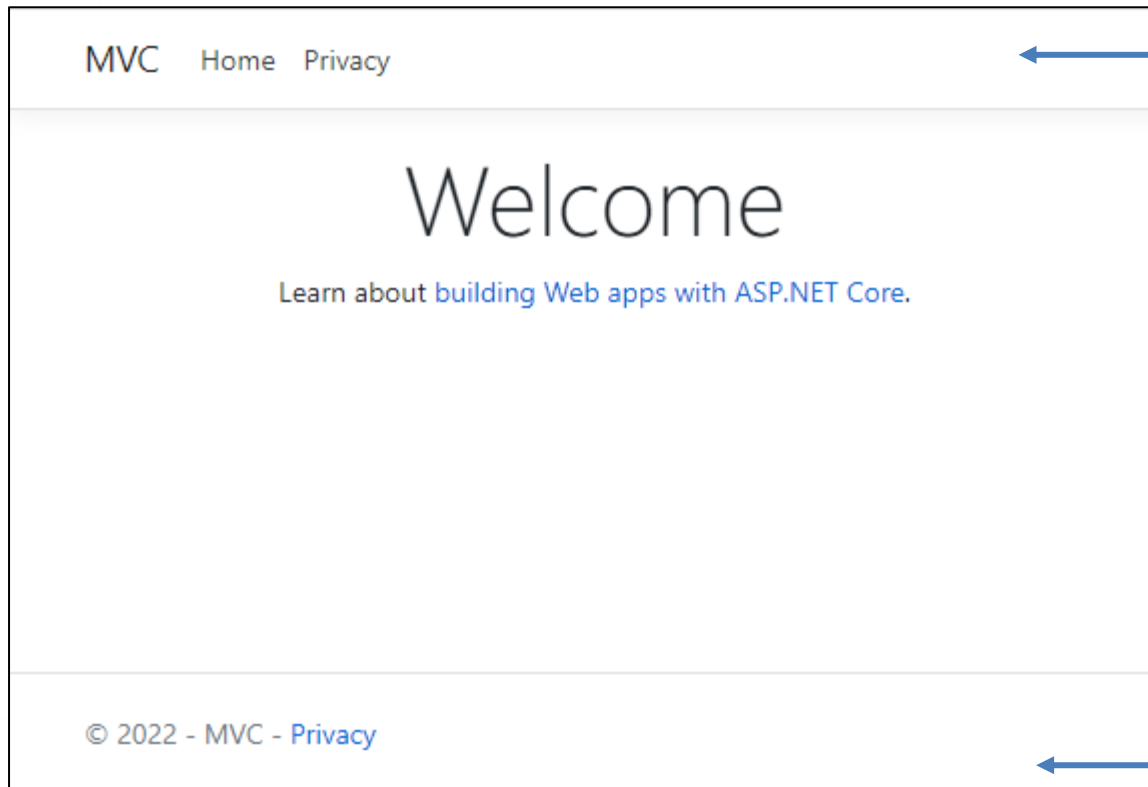
Render Body



Layout Page

Example:

Home index view



**Navigation bar
(from layout)**

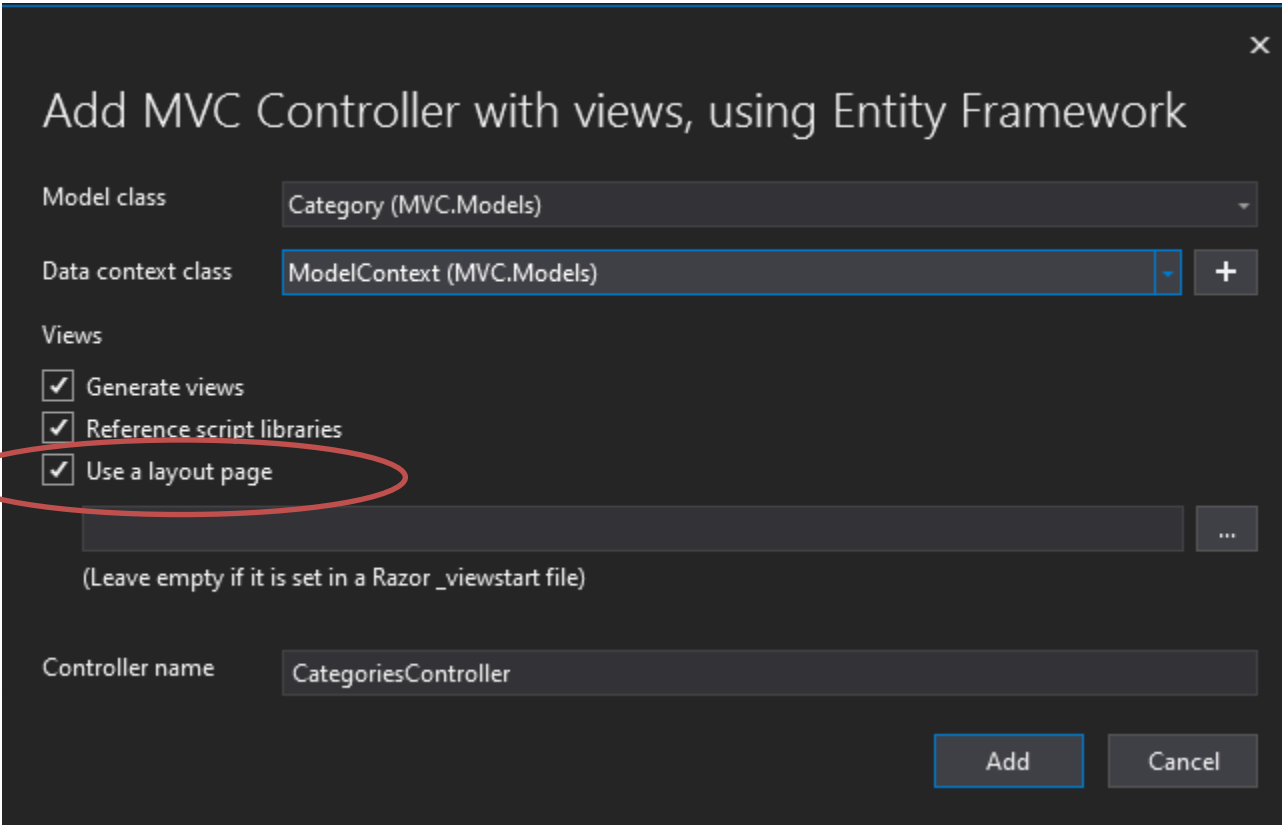
Render Body

**Footer
(from layout)**



Note:

When add MVC Controller with views, you can use the layout or not use it



Add MVC Controller with views, using Entity Framework

Model class: Category (MVC.Models)

Data context class: ModelContext (MVC.Models) +

Views

- ☒ Generate views
- ☒ Reference script libraries
- ☒ Use a layout page

(Leave empty if it is set in a Razor _viewstart file)

Controller name: CategoriesController

Add Cancel



Chapter 4

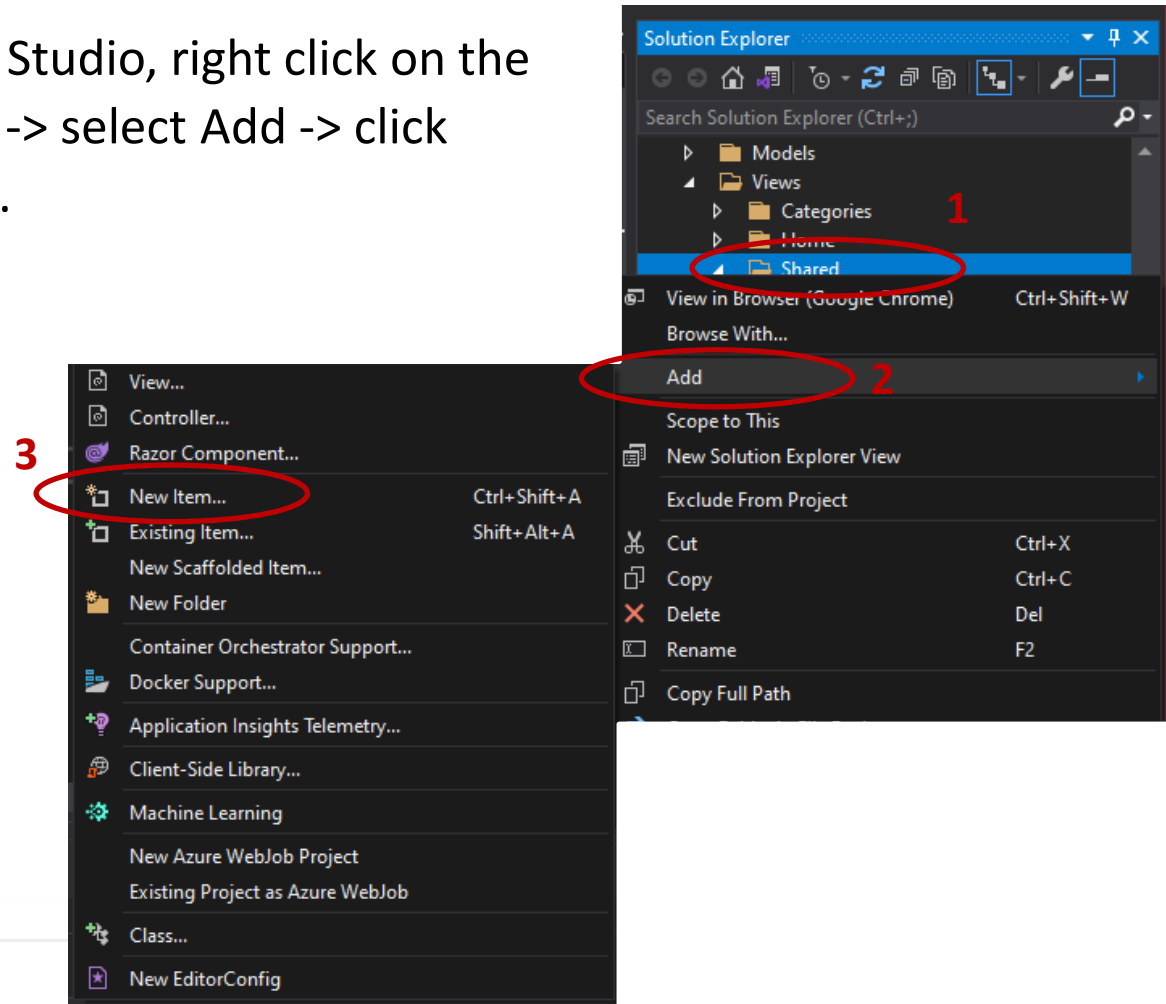
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Create New Layout Page

Note:

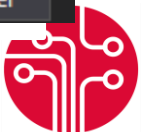
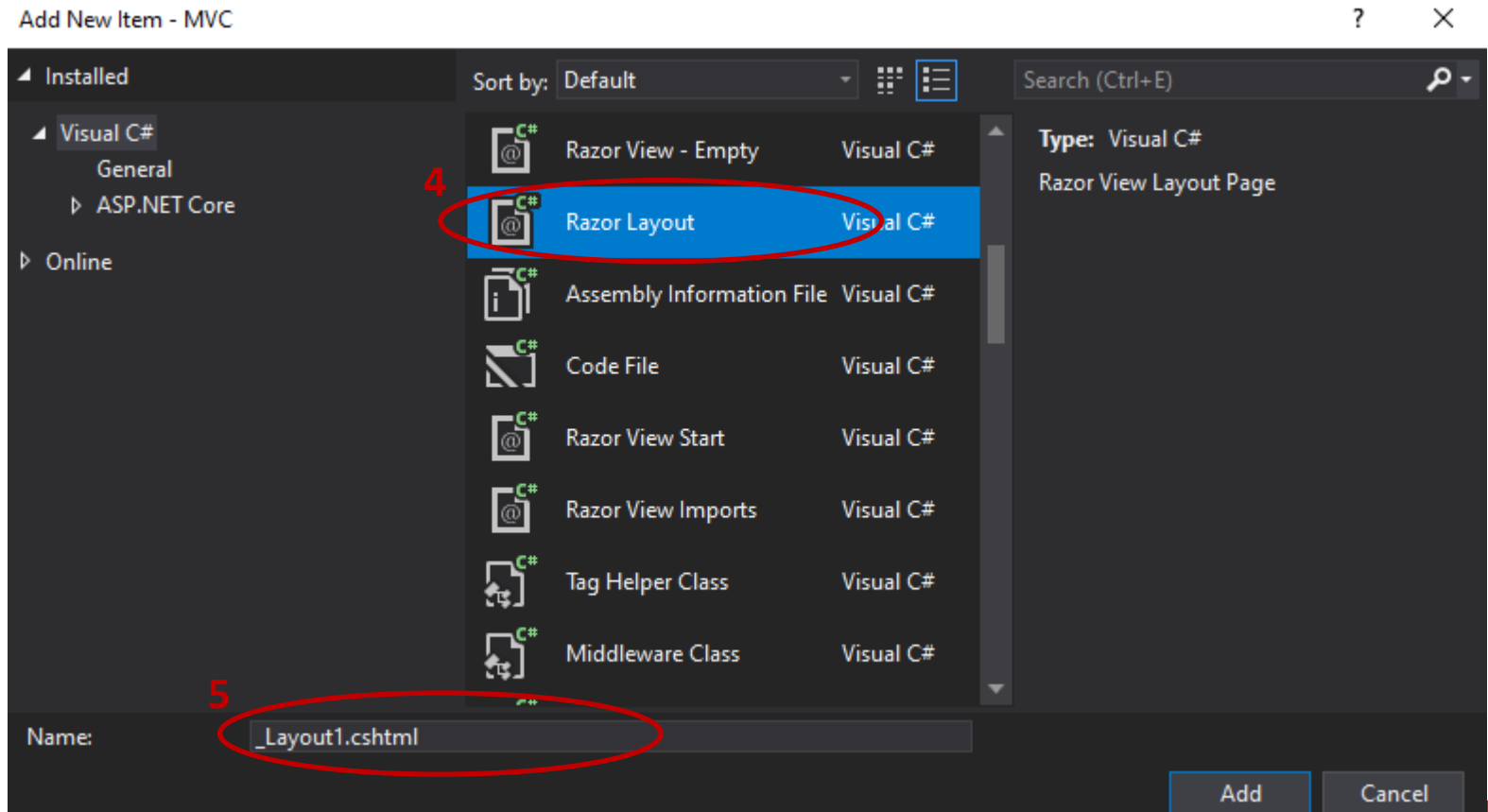
- In the Visual Studio, right click on the Shared folder -> select Add -> click on new item.



Create New Layout Page

Note:

- Select Razor Layout >> Set the layout name



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Home page

Home page:

- The Home page is the first page visited by user in the website, so the design for it is important to attract the users attention.
- To change the home page design you can use bootstrap template.



Home page

To edit home page:

- Choose the bootstrap template and download it

- Example :

Open this link and download bootstrap:

<https://themewagon.com/themes/free-bootstrap-4-restaurant-website-html5-template-pato/>



Home page

The folder content the flowing

Name	Date modified	Type	Size
css	4/16/2018 3:33 PM	File folder	
fonts	4/16/2018 3:33 PM	File folder	
images	4/16/2018 3:33 PM	File folder	
includes	4/16/2018 3:33 PM	File folder	
js	4/16/2018 3:33 PM	File folder	
vendor	4/16/2018 3:33 PM	File folder	
.gitattributes	4/16/2018 3:33 PM	GITATTRIBUTES File	
about	4/16/2018 3:33 PM	Microsoft Edge H...	
blog	4/16/2018 3:33 PM	Microsoft Edge H...	
blog-detail	4/16/2018 3:33 PM	Microsoft Edge H...	
contact	4/16/2018 3:33 PM	Microsoft Edge H...	
gallery	4/16/2018 3:33 PM	Microsoft Edge H...	
index	4/16/2018 3:33 PM	Microsoft Edge H...	
menu	4/16/2018 3:33 PM	Microsoft Edge H...	
ReadMe.md	4/16/2018 3:33 PM	MD File	
reservation	4/16/2018 3:33 PM	Microsoft Edge H...	

Folder content design

Html page



Home page

- Create new layout page called “_HomeLayout.cshtml”.

```
_HomeLayout.cshtml  [X]
1  <!DOCTYPE html>
2
3  <html>
4  <head>
5      <meta name="viewport" content="width=device-width" />
6      <title>@ViewBag.Title</title>
7  </head>
8  <body>
9      <div>
10         @RenderBody()
11     </div>
12 </body>
13 </html>
14
```



Home page

- Open the index page from bootstrap with Microsoft Visual Studio.

```
index.html  X  _HomeLayout.cshtml
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>...</head>
34 <body class="animsition">
35
36  <!-- Header -->
37  <header>...</header>
96
97  <!-- Sidebar -->
98  <aside class="sidebar trans-0-4">...</aside>
183
184  <!-- Slide1 -->
185  <section class="section-slide">...</section>
250
251  <!-- Welcome -->
252  <section class="section-welcome bg1-pattern p-t-120 p-b-105">...</section>
284
285  <!-- Intro -->
286  <section class="section-intro">...</section>
376
377  <!-- Our menu -->
378  <section class="section-ourmenu bg2-pattern p-t-115 p-b-120">...</section>
474
475
476  <!-- Event -->
477  <section class="section-event">...</section>
```

Shared item

Dynamic body



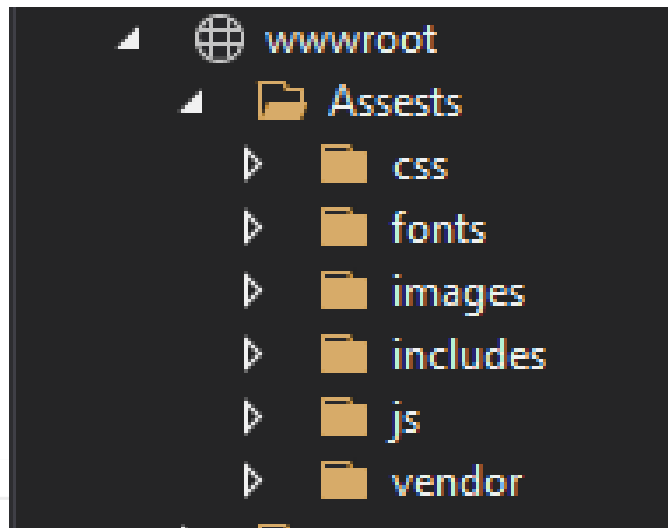
Home page

- Copy the shared item from it to _HomeLayout.cshtml layout.
- Copy the Dynamic body from it to Index.cshtml view page in the home.



Home page

- Create new folder inside wwwroot (Example called Assests).
- Put Style Folders inside Assest Folder in the wwwroot (Copy And Paste).



Home page

- Replace all Href and src code in _HomeLayout.cshtml layout and Index view to start with “~/Assests/”
- Replace url code in _HomeLayout.cshtml layout and Index view to start with “/Assests/”

Example:

- ``
- ``
- Mean correct the path for item



Home page

- Result

