

ASP.NET Core MVC 6.0

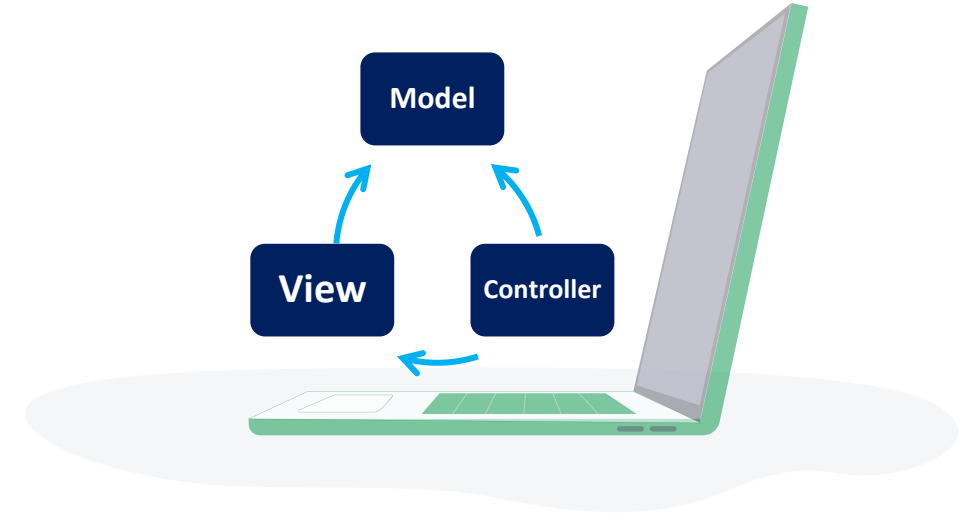
Education and Training Solutions 2023



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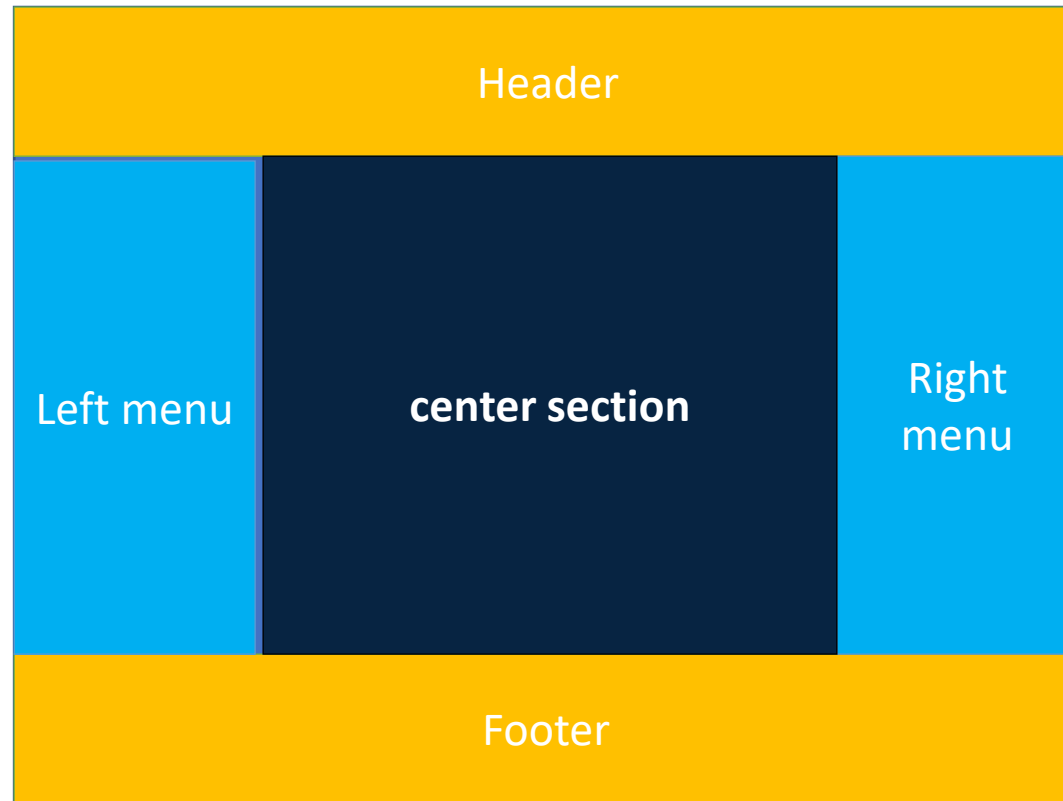
Layout Page

Layout Page:

1. 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.
2. 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.

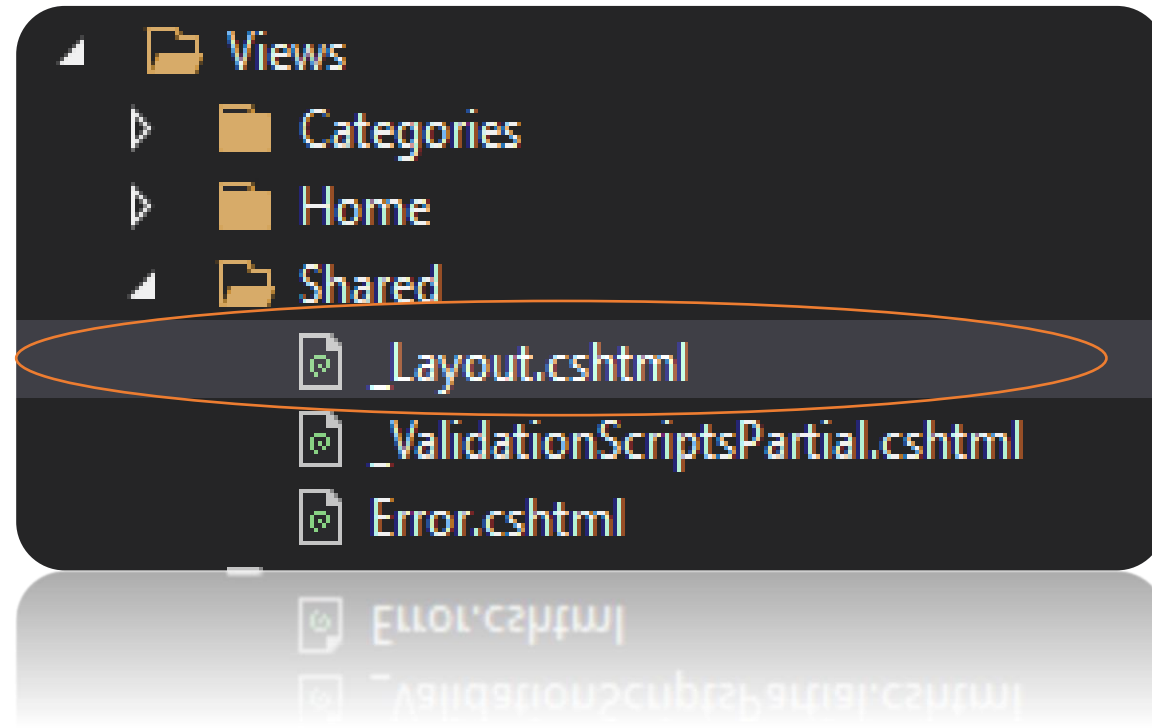


Layout Page:

- 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

Layout Page:

Layout



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

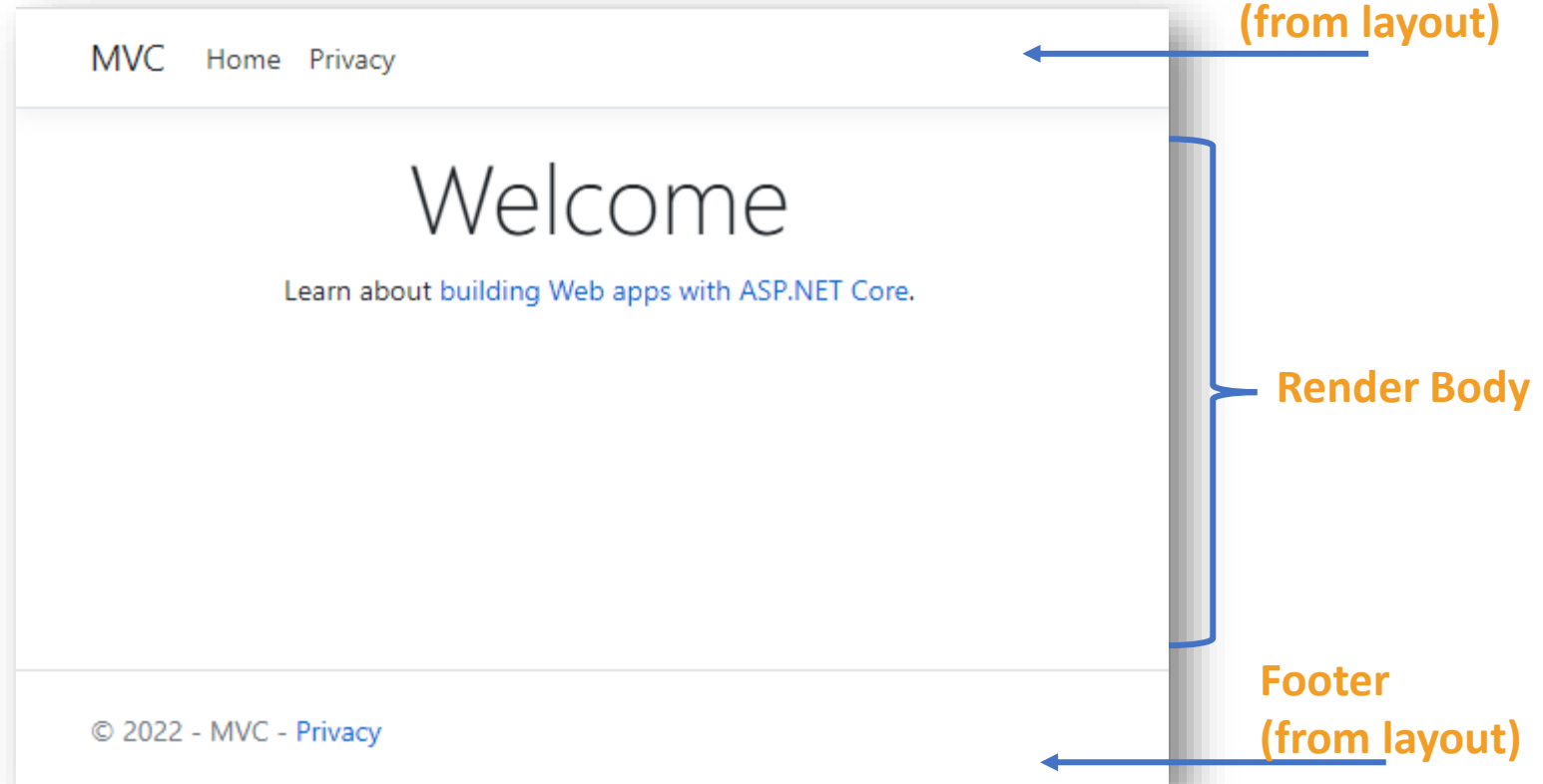
```
@{  
    ViewData["Title"] = "Home Page";  
    Layout = "~/Views/Shared/_Layout.cshtml";  
}  
  
<div class="text-center">  
    <h1 class="display-4">Welcome</h1>  
    <p>Learn about  
    <a href="https://docs.microsoft.com/aspnet/core">  
        building Web apps with ASP.NET Core</a>.</p>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

defined Layout page

Render Body

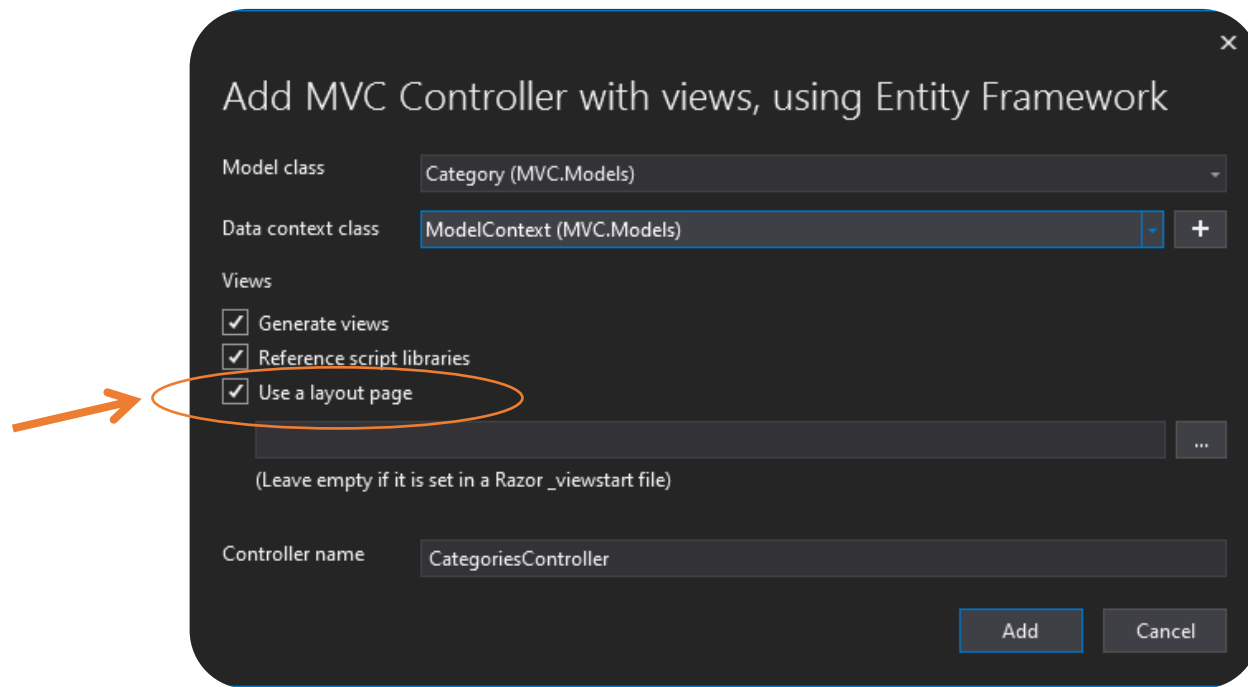
Example:

Home index view



Note:

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



The screenshot shows a dialog box titled "Add MVC Controller with views, using Entity Framework". It contains the following fields and options:

- Model class:** Category (MVC.Models)
- Data context class:** ModelContext (MVC.Models)
- Views:**
 - ☒ Generate views
 - ☒ Reference script libraries
 - ☒ Use a layout page (highlighted with an orange arrow and a circle)
- Controller name:** CategoriesController

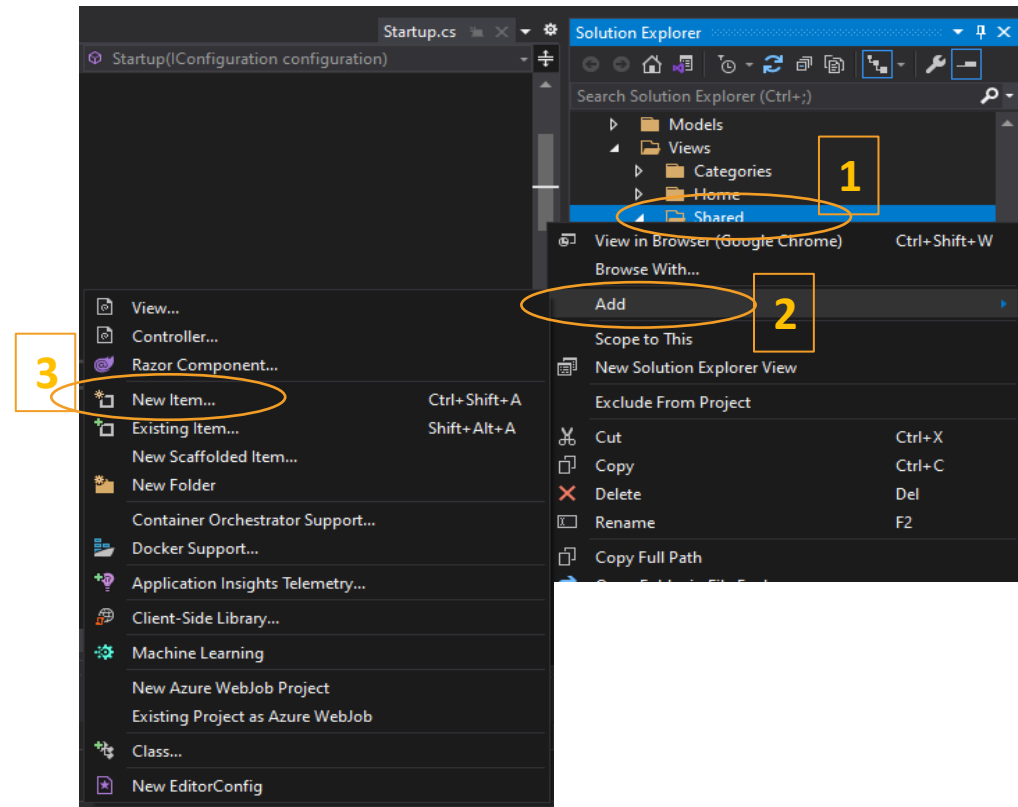
Buttons at the bottom: Add, Cancel.



Create New Layout Page

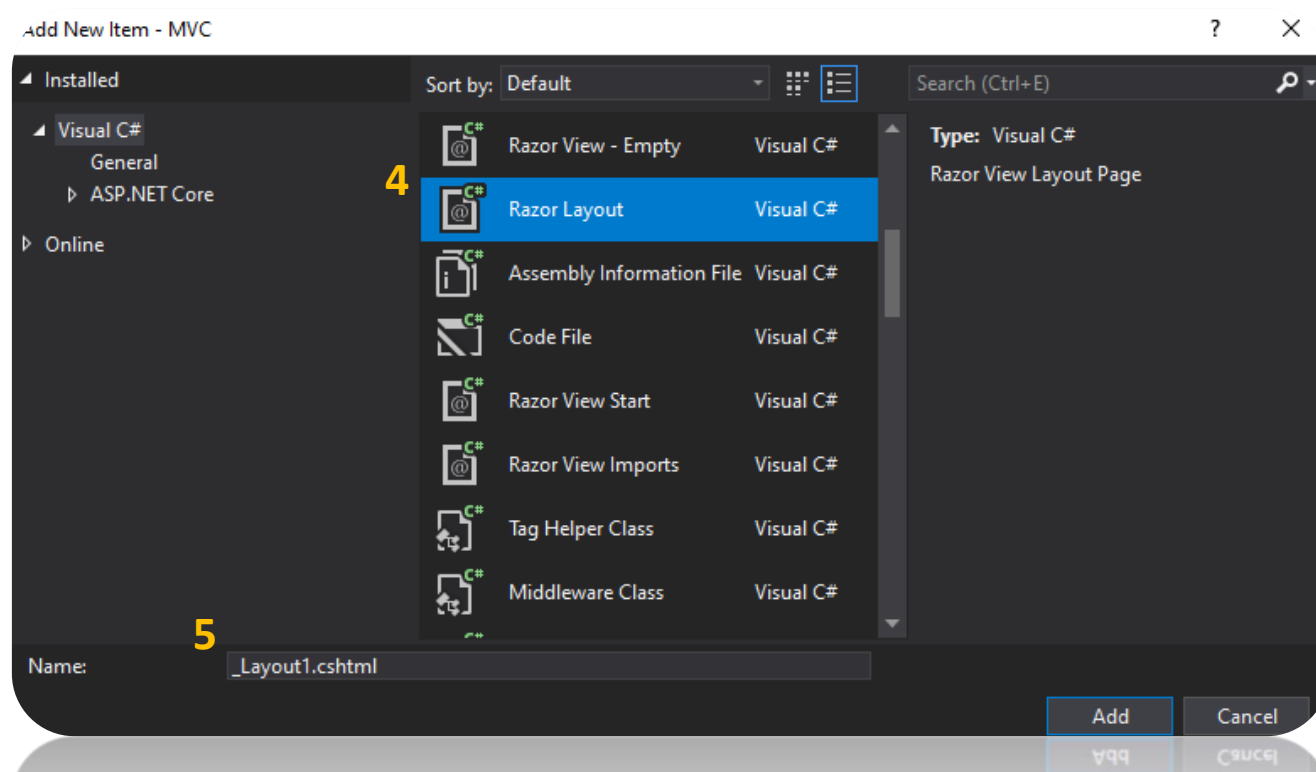
Note:

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



Note:


- Select Razor Layout >> Set the layout name





Home page

Home page:

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

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-html5-restaurant-website-template-dingo/>

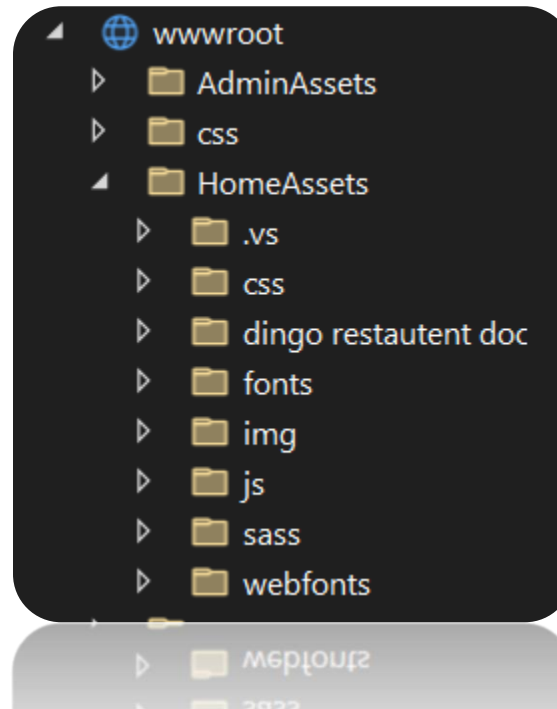
The folder content the flowing

.vs	5/10/2023 3:20 PM	File folder	
css	12/11/2019 12:56 PM	File folder	
dingo restautent doc	12/11/2019 12:56 PM	File folder	
fonts	12/11/2019 12:56 PM	File folder	
img	12/11/2019 12:56 PM	File folder	
js	12/11/2019 12:56 PM	File folder	
sass	12/11/2019 12:56 PM	File folder	
webfonts	12/11/2019 12:56 PM	File folder	
about	12/11/2019 12:56 PM	Microsoft Edge H...	18 KB
blog	12/11/2019 12:56 PM	Microsoft Edge H...	27 KB
chefs	12/11/2019 12:56 PM	Microsoft Edge H...	15 KB
contact	12/11/2019 12:56 PM	Microsoft Edge H...	13 KB
contact_process	12/11/2019 12:56 PM	PHP Source File	2 KB
elements	12/11/2019 12:56 PM	Microsoft Edge H...	34 KB
food_menu	12/11/2019 12:56 PM	Microsoft Edge H...	32 KB
index	12/11/2019 12:56 PM	Microsoft Edge H...	52 KB
single-blog	12/11/2019 12:56 PM	Microsoft Edge H...	30 KB

Folder content design

Html page

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



- 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
```

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

```
<!doctype html>
<html lang="en">
<head>...</head>
<body>
  <!--::header part start::-->
  <header class="main_menu home_menu">...</header>
  <!-- Header part end-->

  <!-- banner part start-->
  <section class="banner_part">...</section>
  <!-- banner part start-->

  <!--::exclusive_item_part start::-->
  <section class="exclusive_item_part blog_item_section">...</section>
  <!--::exclusive_item_part end::-->

  <!-- about part start-->
  <section class="about_part">...</section>
  <!-- about part end-->

  <!-- intro_video_bg start-->
  <section class="intro video bg"> </section>
```

Shared item

Dynamic body

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

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

Example:

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

@{

}

```
index.cshhtml*  menu.html  GetProductsB...tegory.cshhtml  HomeController.cs  _HomeLayout.cshhtml
1  @{
2  Layout = "~/Views/Shared/_HomeLayout.cshhtml";
3  }
4
5  <section class="banner_part">...
29  <!-- banner part start-->
30
31  <!--::exclusive_item_part start::-->
32  <section class="exclusive_item_part blog_item_section">
33  <div class="container">
34  <div class="row">
35  <div class="col-xl-5">
36  <div class="section_title">
37  <p>Popular Dishes</p>
38  <h2>Our Exclusive Items</h2>
39  </div>
40  </div>
41  </div>
42  <div class="row">
43  @foreach (var item in Model)
44  {
45  <div class="col-sm-6 col-lg-4">
46  <div class="single_blog_item">
47  <div class="blog_img">
48  <img alt="Blog Image" />
49  </div>
50  <div class="blog_text">
51  <h3>Blog Title</h3>
52  <p>Blog Content</p>
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```

Result

