

0. Summary

1. New Project - OnlineGame

1.1. New Project - OnlineGame.Web

1.1.1. Global.asax.cs

1.1.2. App_Start/RouteConfig.cs

1.1.3. Web.config

2. OnlineGame.Web

2.1. Create CustomHtmlHelper

2.1.1. CustomHtmlHelper/CustomHtmlHelper.cs

2.1.2. Views/web.config

2.2. Models

2.2.1. Models/Gamer.cs

2.3. Controller

2.3.1. Controllers/HomeController.cs

2.3.2. Controllers/GamerController.cs

2.3.3. Controllers/TeamController.cs

2.4. Views/Home/Index.cshtml

2.5. Layout view

2.5.1. Views/Shared/_Layout.cshtml

2.5.2. Views/Shared/_Layout2.cshtml

2.5.3. Views/Shared/_Layout3.cshtml

2.5.4. Views/Shared/_Layout4.cshtml

2.5.5. Views/Shared/_ChomeLayout.cshtml

2.6. ViewStart

2.6.1. Views/_ViewStart.cshtml

2.6.2. Views/Gamer/_ViewStart.cshtml

2.6.3. Views/Team/_ViewStart.cshtml

2.7. Views/Shared/_GamerDetails.cshtml (Partial View)

2.8. Views/Home

2.8.1. Views/Home/Index2.cshtml

2.8.2. Views/Home/Index3.cshtml

2.9. Views/Gamer

2.9.1. Views/Gamer/Index.cshtml

2.9.2. Views/Gamer/Index2.cshtml

2.9.3. Views/Gamer/Index3.cshtml

2.9.4. Views/Gamer/Index4.cshtml

2.9.5. Views/Gamer/Details.cshtml

2.9.6. Views/Gamer/Details2.cshtml

2.10. Views/Team

2.10.1. Views/Team/Index.cshtml

2.10.2. Views/Team/Index2.cshtml

2.10.3. Views/Team/Index3.cshtml

0. Summary

=====

In this tutorial, we will discuss

- * View
- * PartialView
- * ViewStart
- * Layout
- * LayoutNamedSections
- * 模板分身術之完全理解 Layout，ViewStart，PartialView，LayoutNamedSections。
- * 攻略 Layout 和 ViewStart 千絲萬縷的情緣。八卦，九掛，十掛的通通解密。
- * PartialView 和 LayoutNamedSections 的應用。
- * 讓你的模板 Layout 就像漩渦鳴人的影分身之術套用到每一頁

=====

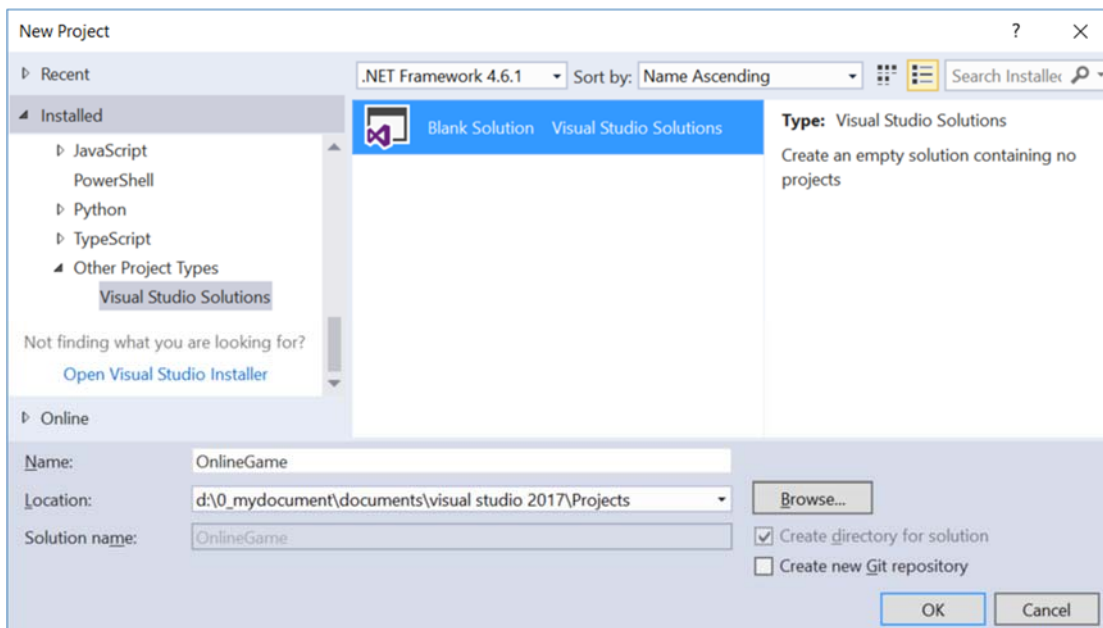
1. New Project - OnlineGame

File --> New --> Project... -->

Other Project Types --> Visual Studio Solutions --> Blank Solution

-->

Name: **OnlineGame**



1.1. New Project - OnlineGame.Web

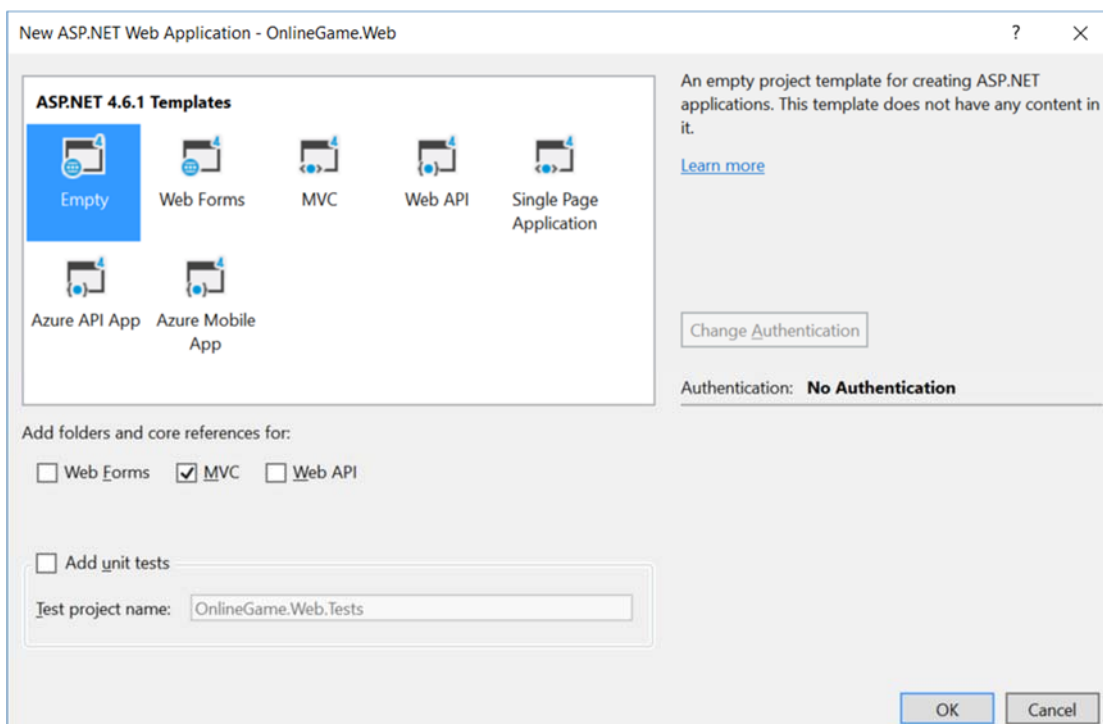
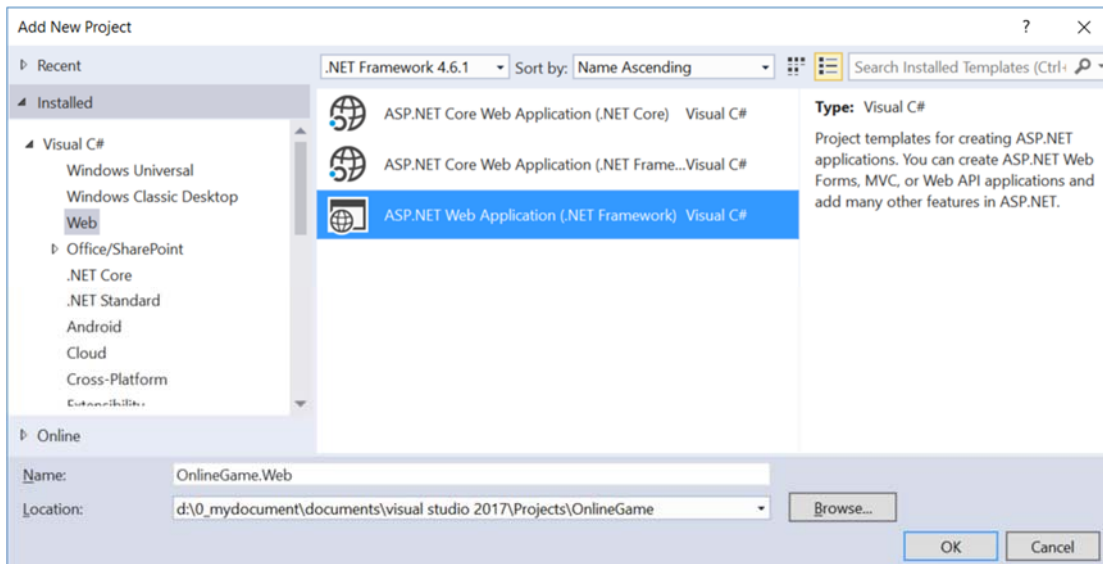
Solutions Name --> Add --> New Project -->

Visual C# --> Web --> [ASP.NET](#) Web Application (.Net Framework)

-->

Name: **OnlineGame.Web**

Empty --> Select "MVC" --> OK



1.1.1. Global.asax.cs

```
using System.Web.Mvc;
using System.Web.Routing;
namespace OnlineGame.Web
{
    public class MvcApplication : System.Web.HttpApplication
    {
        //Application_Start() is the magic start point of this application
        protected void Application_Start()
        {
            AreaRegistration.RegisterAllAreas();
            //1.
            //Register Route Configure in RouteConfig.cs
            //If you want to see route configuration,
            //you may find it in RouteConfig.cs
        }
    }
}
```

```

        //2.
        //System.Web.Routing.RouteCollection Routes { get; }
        //Gets a collection of objects that derive from the System.Web.Routing.RouteBase class.
        RouteConfig.RegisterRoutes(RouteTable.Routes);
    }
}
}

```

1.1.2. App_Start/RouteConfig.cs

```

using System.Web.Mvc;
using System.Web.Routing;
namespace OnlineGame.Web
{
    public class RouteConfig
    {
        public static void RegisterRoutes(RouteCollection routes)
        {
            //Handle the Route of the axd request file.
            //E.g. ASP.Net Tracing
            routes.IgnoreRoute("{resource}.axd/{*pathInfo}");
            //Handle the Route called "Default".
            //The mapping URL is "{controller}/{action}/{id}"
            //Set the default value of Controller, action, and id.
            routes.MapRoute(
                name: "Default",
                url: "{controller}/{action}/{id}",
                defaults: new { controller = "Home", action = "Index", id = UrlParameter.Optional }
            );
        }
    }
}

```

```

/*
1.
//routes.MapRoute(
//    name: "Default",
//    url: "{controller}/{action}/{id}",
//    defaults: new { controller = "Home", action = "Index", id = UrlParameter.Optional }
//);

```

1.1.
When a request comes in,
it's trying to do a pattern match based on
all the templates it sees in these mapped routes.
A route is some instructions for
how to take a URI coming into a request
and map it to some code,
normally a controller.

In this case,
look at defaults parameter,
when user request <http://localhost:PortNumber/>
IIS Express will run
HomeController Index action.
It will map to Controllers/HomeController.cs
and map to Index Method

1.2.
By convention in MVC.
All controllers will have Controller suffix.
This suffix is not required in the URL.
So, if you want to invoke Home controller,
you specify /Home and not /HomeController.

2.
 //routes.IgnoreRoute("{resource}.axd/{*pathInfo}");
 2.1.
 Reference:
<https://stackoverflow.com/questions/9016650/what-is-routes-ignoreroresource-axd-pathinfo>
 This line can handle the axd file request route,
 E.g. trace.axd
 .axd files don't exist physically.
 ASP.NET uses URLs with .axd extensions
 (ScriptResource.axd and WebResource.axd) internally,
 and they are handled by an HttpHandler.
 Therefore, you should keep this rule,
 to prevent ASP.NET MVC from trying to handle the request
 instead of letting the dedicated HttpHandler do it.
 2.2.
 trace.axd
 Reference:
<https://msdn.microsoft.com/en-us/library/wwh16c6c.aspx>
 trace.axd trace details for a specific request.
 If you want to enable trace.axd,
 then you have to go to Web.config
 Add <trace enabled="true" pageOutput="false"/> under <system.web>
 Then run the project, type the following URL
<http://localhost/OnlineGame.Web/trace.axd>
 This will return ASP.NET trace, trace.axd.
 If you do not have
 // routes.IgnoreRoute("{resource}.axd/{*pathInfo}");
 then you can not enable the trace.axd.
 */

1.1.3. Web.config



```

4      https://go.microsoft.com/fwlink/?LinkId=301880
5      -->
6      <configuration>
7      <configSections>
8          <!-- For more information on Entity Framework configuration, visit http://go.microsoft.com/
9              fwlink/?LinkId=237468 -->
10         <section name="entityFramework"
11             type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSection, EntityFramework,
12             Version=6.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" requirePermission="false" />
13     </configSections>
14     <appSettings>
15         <add key="webpages:Version" value="3.0.0.0" />
16         <add key="webpages:Enabled" value="false" />
17         <add key="ClientValidationEnabled" value="true" />
18         <add key="UnobtrusiveJavaScriptEnabled" value="true" />
19     </appSettings>
20     <system.web>
21         <globalization culture="en-au" />
22         <compilation debug="true" targetFramework="4.6.1" />
23         <httpRuntime targetFramework="4.6.1" />
24     </system.web>
25     <runtime>

```

```

<system.web>
    <globalization culture="en-au" />

```

2. OnlineGame.Web

2.1. Create CustomHtmlHelper

2.1.1. CustomHtmlHelper/CustomHtmlHelper.cs

```
using System.Web;
using System.Web.Mvc;
namespace OnlineGame.Web.CustomHtmlHelper
{
    public static class CustomHtmlHelper
    {
        public static IHtmlString Image(this HtmlHelper customHtmlHelper, string src, string alt)
        {
            // Create <img> tag
            TagBuilder tb = new TagBuilder("img");
            // Add src attribute
            tb.Attributes.Add("src", VirtualPathUtility.ToAbsolute(src));
            // Add alt attribute
            tb.Attributes.Add("alt", alt);
            // return MvcHtmlString object which implements IHtmlString interface.
            return new MvcHtmlString(tb.ToString(TagRenderMode.SelfClosing));
        }
        public static string ImageString(this HtmlHelper customHtmlHelper, string src, string alt)
        {
            // Create <img> tag
            TagBuilder tb = new TagBuilder("img");
            // Add src attribute
            tb.Attributes.Add("src", VirtualPathUtility.ToAbsolute(src));
            // Add alt attribute
            tb.Attributes.Add("alt", alt);
            // return MvcHtmlString object which implements IHtmlString interface.
            return tb.ToString(TagRenderMode.SelfClosing);
        }
    }
}
/*
1.
Create Custom Html Helper
1.1.
Html helper is an extension method,
so an extension method needs to be a static method in a static class.
The first parameter must have this keyword represents the calling object.
In this case, "this System.Web.Mvc.HtmlHelper customHtmlHelper"
1.2.
Use TagBuilder to create HTML tag.
1.3.
Return MvcHtmlString object which implements IHtmlString interface.
1.4.
The view which uses this Html helper needs to "using this namespace".
In this case, "Using OnlineGame.Web.CustomHtmlHelper"
If you want this HTML helper is available in all views,
You need to include this namespace in Views/web.config file.
E.g.
<system.web.webPages.razor>
<host factoryType = "System.Web.Mvc.MvcWebRazorHostFactory, System.Web.Mvc, Version=5.2.3.0,
Culture=neutral, PublicKeyToken=31BF3856AD364E35" />
```

```
//< pages pageBaseType="System.Web.Mvc.WebViewPage">
//<namespaces>
//    <add namespace="System.Web.Mvc" />
//    <add namespace="System.Web.Mvc.Ajax" />
//    <add namespace="System.Web.Mvc.Html" />
//    <add namespace="System.Web.Routing" />
//    <add namespace="OnlineGame.Web" />
//    <add namespace="OnlineGame.Web.CustomHtmlHelper" />
//</namespaces>
//</pages>
//</system.web.webPages.razor>
*/
```

2.1.2. Views/web.config

```
<?xml version="1.0"?>
<configuration>
    <configSections>
        <sectionGroup name="system.web.webPages.razor" type="System.Web.WebPages.Razor.Configuration.RazorWebS
        ectionGroup, System.Web.WebPages.Razor, Version=3.0.0.0, Culture=neutral,
        PublicKeyToken=31BF3856AD364E35">
            <section name="host" type="System.Web.WebPages.Razor.Configuration.HostSection,
            System.Web.WebPages.Razor, Version=3.0.0.0, Culture=neutral,
            PublicKeyToken=31BF3856AD364E35" requirePermission="false" />
            <section name="pages" type="System.Web.WebPages.Razor.Configuration.RazorPagesSection,
            System.Web.WebPages.Razor, Version=3.0.0.0, Culture=neutral,
            PublicKeyToken=31BF3856AD364E35" requirePermission="false" />
        </sectionGroup>
    </configSections>
    <system.web.webPages.razor>
        <host factoryType="System.Web.Mvc.MvcWebRazorHostFactory, System.Web.Mvc, Version=5.2.3.0,
        Culture=neutral, PublicKeyToken=31BF3856AD364E35" />
        <pages pageBaseType="System.Web.Mvc.WebViewPage">
            <namespaces>
                <add namespace="System.Web.Mvc" />
                <add namespace="System.Web.Mvc.Ajax" />
                <add namespace="System.Web.Mvc.Html" />
                <add namespace="System.Web.Routing" />
                <add namespace="OnlineGame.Web" />
                <add namespace="OnlineGame.Web.CustomHtmlHelper" />
            </namespaces>
        </pages>
    </system.web.webPages.razor>
    <appSettings>
        <add key="webpages:Enabled" value="false" />
    </appSettings>
    <system.webServer>
        <handlers>
            <remove name="BlockViewHandler"/>
            <add name="BlockViewHandler" path="*" verb="*" precondition="integratedMode" type="System.Web.HttpNotF
            oundHandler" />
        </handlers>
    </system.webServer>
    <system.web>
        <compilation>
            <assemblies>
                <add assembly="System.Web.Mvc, Version=5.2.3.0, Culture=neutral,
                PublicKeyToken=31BF3856AD364E35" />
            </assemblies>
        </compilation>
    </system.web>
</configuration>
```

```
</compilation>
</system.web>
</configuration>
```

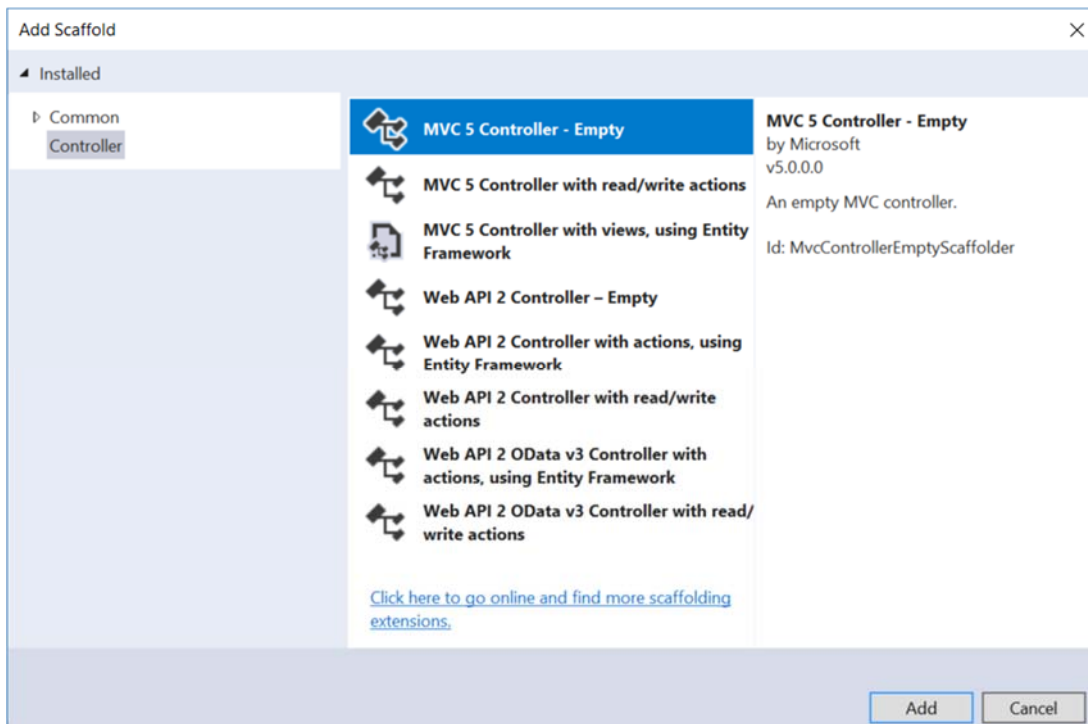
2.2. Models

2.2.1. Models/Gamer.cs

```
namespace OnlineGame.Web.Models
{
    public class Gamer
    {
        public int Id { get; set; }
        public string Name { get; set; }
        public string Gender { get; set; }
        public int Score { get; set; }
    }
}
```

2.3. Controller

2.3.1. Controllers/HomeController.cs



```
using System.Web.Mvc;
namespace OnlineGame.Web.Controllers
```

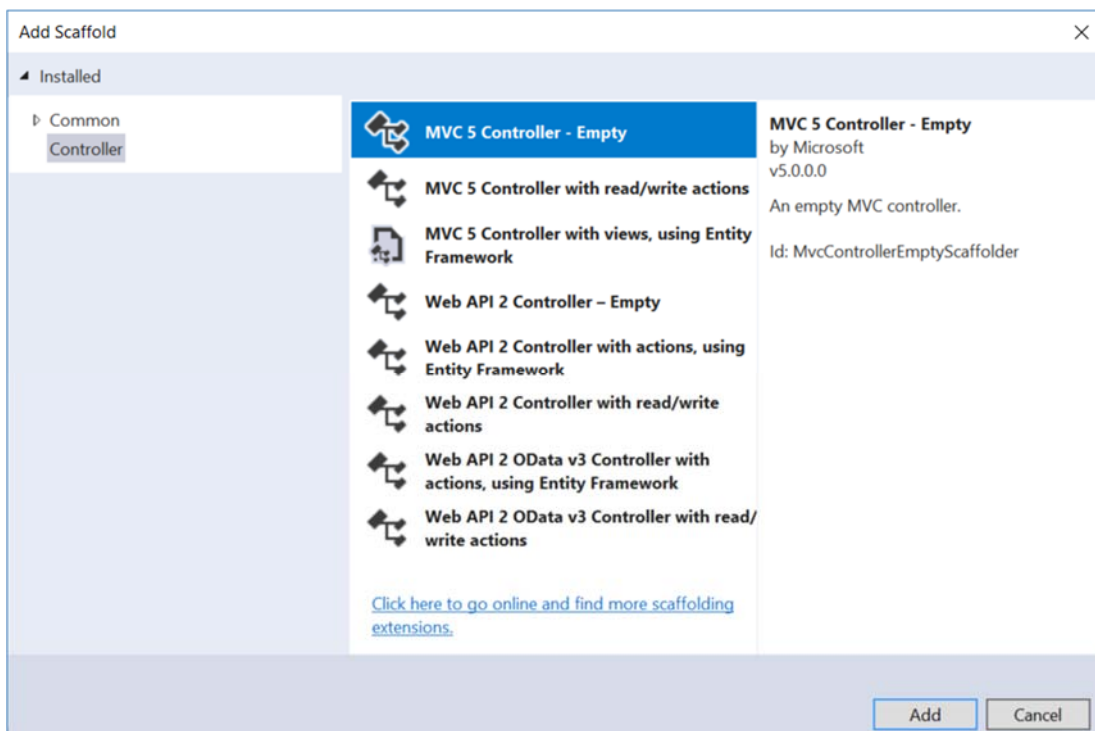


```

{
    public class HomeController : Controller
    {
        [HttpGet]
        public ActionResult Index()
        {
            return View();
        }
        [HttpGet]
        public ActionResult Index2()
        {
            return View();
        }
        [HttpGet]
        public ActionResult Index3()
        {
            return View("Index3", "_Layout3");
        }
    }
}

```

2.3.2. Controllers/GamerController.cs



```

using System.Web.Mvc;
using OnlineGame.Web.Models;
namespace OnlineGame.Web.Controllers
{
    public class GamerController : Controller
    {
        [HttpGet]
        public ActionResult Index()
        {
            return View();
        }
    }
}

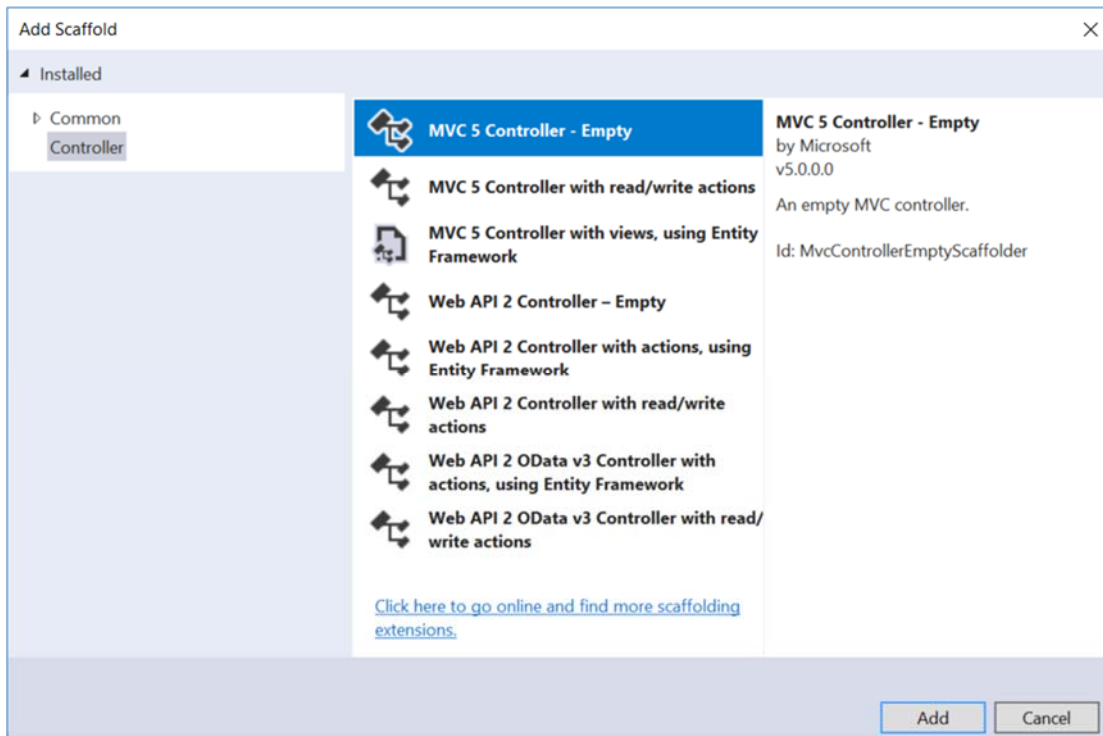
```

```

    }
    [HttpGet]
    public ActionResult Index2()
    {
        return View();
    }
    [HttpGet]
    public ActionResult Index3()
    {
        return View();
    }
    [HttpGet]
    public ActionResult Index4()
    {
        Gamer gamer = new Gamer
        {
            Id = 1,
            Name = "Name1",
            Gender = "Male",
            Score = 2000
        };
        return View(gamer);
    }
    public ActionResult Details()
    {
        Gamer gamer = new Gamer
        {
            Id = 1,
            Name = "Name1",
            Gender = "Male",
            Score = 2000
        };
        return View("_GamerDetails", gamer);
    }
    //In order to prevent layout view apply to partial view.
    //A. Return type is PartialViewResult.
    //B. return PartialView("_PartialViewName", ModelObject);
    public PartialViewResult Details2()
    {
        Gamer gamer = new Gamer
        {
            Id = 1,
            Name = "Name1",
            Gender = "Male",
            Score = 2000
        };
        return PartialView("_GamerDetails", gamer);
    }
}
}
}

```

2.3.3. Controllers/TeamController.cs



```
using System.Web.Mvc;
namespace OnlineGame.Web.Controllers
{
    public class TeamController : Controller
    {
        [HttpGet]
        public ActionResult Index()
        {
            return View();
        }
        [HttpGet]
        public ActionResult Index2()
        {
            return View();
        }
        [HttpGet]
        public ActionResult Index3()
        {
            return View();
        }
    }
}
```

2.4. Views/Home/Index.cshtml

Add View

View name:

Template:

Model class:

Options:

☐ Create as a partial view

☒ Reference script libraries

☒ Use a layout page:

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

Add Cancel

It will automatically generate the "**Views/Shared/_Layout.cshtml**" layout view.
 It will also automatically add some js files into **Scripts** folder and css files into **Content** folder.

```
@*@using OnlineGame.Web.CustomHtmlHelper*@
@{
    ViewBag.Title = "Index";
    //Layout = "~/Views/Shared/_Layout.cshtml";
    int sum1 = 0;
    int sum2 = 0;
    sum1 = 2 + 4 + 6 + 8 + 10;
    sum2 = 1 + 3 + 5 + 7 + 9;
    int day = 28;
    int month = 2;
    int year = 1988;
}
<h2>@ViewBag.Title</h2>
<div>
    @Html.ActionLink("Home Index", "Index", "Home")<br />
    @Html.ActionLink("Home Index2", "Index2", "Home")<br />
    @Html.ActionLink("Home Index3", "Index3", "Home")<br />
    @Html.ActionLink("Gamer Index", "Index", "Gamer")<br />
    @Html.ActionLink("Gamer Index2", "Index2", "Gamer")<br />
    @Html.ActionLink("Gamer Index3", "Index3", "Gamer")<br />
    @Html.ActionLink("Gamer Index4", "Index4", "Gamer")<br />
    @Html.ActionLink("Gamer Details", "Details", "Gamer")<br />
    @Html.ActionLink("Gamer Details2", "Details2", "Gamer")<br />
    @Html.ActionLink("Team Index", "Index", "Team")<br />
    @Html.ActionLink("Team Index2", "Index2", "Team")<br />
    @Html.ActionLink("Team Index3", "Index3", "Team")<br />
</div>
<br />
<hr />
<div>
    sum1 = @sum1
</div>
<div>
    sum2 = @sum2
</div>
<hr />
<div>
    Even Number
```

```

@for (int i = 1; i <= 10; i++)
{
    if (i % 2 == 0)
    {
        <text>@i</text>
    }
}
</div>
<hr />
<div>
    Even Number part 2
    @for (int i = 1; i <= 10; i++)
    {
        if (i % 2 == 0)
        {
            @i
        }
    }
</div>
<hr />
<div>
    Date is @day-@month-@year
</div>
<hr />
<div>
    Email: AAAAA@<a href="mailto:BBBBB.com">BBBBB.com
</div>
<hr />
<div>
    @for (int i = 1; i <= 3; i++)
    {
        
    }
</div>
<hr />
<div>
    @for (int i = 1; i <= 3; i++)
    {
        @Html.Image(string.Format("~/Photos/Name{0}.png", i), string.Format("Photo{0}", i))
    }
</div>
<hr />

```

Layout

Index

- [Home Index](#)
- [Home Index2](#)
- [Home Index3](#)
- [Gamer Index](#)
- [Gamer Index2](#)
- [Gamer Index3](#)
- [Gamer Index4](#)
- [Gamer Details](#)
- [Gamer Details2](#)
- [Team Index](#)
- [Team Index2](#)
- [Team Index3](#)

sum1 = 30
sum2 = 25

Even Number 2 4 6 8 10

Even Number part 2 246810

Date is 28-2-1988

Email: AAAAA@BBBBB.com


NAME01


Name02

Name03


NAME01


Name02

Name03

Chome Layout

Index

Home Index
Home Index2
Home Index3
Gamer Index
Gamer Index2
Gamer Index3
Gamer Index4
Gamer Details
Gamer Details2
Team Index
Team Index2
Team Index3

sum1 = 30
sum2 = 25

Even Number 2 4 6 8 10

Even Number part 2 246810

Date is 28-2-1988

Email: AAAAA@BBBB.com



2.5. Layout view

2.5.1. Views/Shared/_Layout.cshtml

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title - My ASP.NET Application</title>
    <link href="~/Content/Site.css" rel="stylesheet" type="text/css" />
    <link href="~/Content/bootstrap.min.css" rel="stylesheet" type="text/css" />
    <script src="~/Scripts/modernizr-2.6.2.js"></script>
</head>
<body>
    <div class="navbar navbar-inverse navbar-fixed-top">
        <div class="container">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-
collapse">
```

```

        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
    </button>
    @Html.ActionLink("Application name", "Index", "Home", new { area = "" }, new { @class
= "navbar-brand" })
</div>
<div class="navbar-collapse collapse">
    <ul class="nav navbar-nav">
    </ul>
</div>
</div>
</div>
<div class="container body-content">
    <h2>Layout</h2>
    @RenderBody()
    <hr />
    <footer>
        <p>&copy; @DateTime.Now.Year - My ASP.NET Application</p>
    </footer>
</div>
<script src="~/Scripts/jquery-1.10.2.min.js"></script>
<script src="~/Scripts/bootstrap.min.js"></script>
</body>
</html>

```

2.5.2. Views/Shared/_Layout2.cshtml

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title - My ASP.NET Application</title>
    <link href="~/Content/Site.css" rel="stylesheet" type="text/css" />
    <link href="~/Content/bootstrap.min.css" rel="stylesheet" type="text/css" />
    <script src="~/Scripts/modernizr-2.6.2.js"></script>
</head>
<body>
    <div class="navbar navbar-inverse navbar-fixed-top">
        <div class="container">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-
collapse">

                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
                @Html.ActionLink("Application name", "Index", "Home", new { area = "" }, new { @class
= "navbar-brand" })
            </div>
            <div class="navbar-collapse collapse">
                <ul class="nav navbar-nav">

```



```

        </ul>
    </div>
</div>
<div class="container body-content">
    <h2>Layout 2</h2>
    @RenderBody()
    <hr />
    <footer>
        <p>&copy; @DateTime.Now.Year - My ASP.NET Application</p>
    </footer>
</div>
<script src="~/Scripts/jquery-1.10.2.min.js"></script>
<script src="~/Scripts/bootstrap.min.js"></script>
</body>
</html>

```

2.5.3. Views/Shared/_Layout3.cshtml

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title - My ASP.NET Application</title>
    <link href="~/Content/Site.css" rel="stylesheet" type="text/css" />
    <link href="~/Content/bootstrap.min.css" rel="stylesheet" type="text/css" />
    <script src="~/Scripts/modernizr-2.6.2.js"></script>
</head>
<body>
    <div class="navbar navbar-inverse navbar-fixed-top">
        <div class="container">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
                @Html.ActionLink("Application name", "Index", "Home", new { area = "" }, new { @class
= "navbar-brand" })
            </div>
            <div class="navbar-collapse collapse">
                <ul class="nav navbar-nav">
                    <li></li>
                </ul>
            </div>
        </div>
    </div>
    <div class="container body-content">
        <h2>Layout 3</h2>
        @RenderBody()
        <hr />
        <footer>

```

```

        <p>&copy; @DateTime.Now.Year - My ASP.NET Application</p>
    </footer>
</div>
<script src="~/Scripts/jquery-1.10.2.min.js"></script>
<script src="~/Scripts/bootstrap.min.js"></script>
</body>
</html>

```

2.5.4. Views/Shared/_Layout4.cshtml

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title - My ASP.NET Application</title>
    <link href="~/Content/Site.css" rel="stylesheet" type="text/css" />
    <link href="~/Content/bootstrap.min.css" rel="stylesheet" type="text/css" />
    <script src="~/Scripts/modernizr-2.6.2.js"></script>
</head>
<body>
    <div class="navbar navbar-inverse navbar-fixed-top">
        <div class="container">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-
collapse">

                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>

                </button>
                @Html.ActionLink("Application name", "Index", "Home", new { area = "" }, new { @class
= "navbar-brand" })
            </div>
            <div class="navbar-collapse collapse">
                <ul class="nav navbar-nav"></ul>
            </div>
        </div>
    </div>
    <div class="container body-content">
        <h2>Layout 4</h2>
        <div>
            @if (IsSectionDefined("Menu"))
            {
                @RenderSection("Menu", false)
            }
            else
            {
                @Html.ActionLink("Team Index", "Index", "Team")
            }
        </div>
        <div>
            @RenderSection("ExtraInfo", false)
        </div>
    </div>

```

```

    @RenderBody()
    <hr />
    <footer>
        <p>&copy; @DateTime.Now.Year - My ASP.NET Application</p>
    </footer>
</div>
<script src="~/Scripts/jquery-1.10.2.min.js"></script>
<script src="~/Scripts/bootstrap.min.js"></script>
</body>
</html>
@*
1.
//@RenderSection("ExtraInfo", false)
The second parameter is required.
When required is false, then the section is optional.
It means the view which uses this layout may or may not have @section ExtraInfo
*@

```

2.5.5. Views/Shared/_ChomeLayout.cshtml

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title - My ASP.NET Application</title>
    <link href="~/Content/Site.css" rel="stylesheet" type="text/css" />
    <link href="~/Content/bootstrap.min.css" rel="stylesheet" type="text/css" />
    <script src="~/Scripts/modernizr-2.6.2.js"></script>
</head>
<body>
    <div class="navbar navbar-inverse navbar-fixed-top">
        <div class="container">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-
collapse">

                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
                @Html.ActionLink("Application name", "Index", "Home", new { area = "" }, new { @class
= "navbar-brand" })
            </div>
            <div class="navbar-collapse collapse">
                <ul class="nav navbar-nav">
                    </ul>
                </div>
            </div>
        </div>
        <div class="container body-content">
            <h2>Chome Layout</h2>
            @RenderBody()
            <hr />

```

```

        <footer>
            <p>&copy; @DateTime.Now.Year - My ASP.NET Application</p>
        </footer>
    </div>
    <script src="~/Scripts/jquery-1.10.2.min.js"></script>
    <script src="~/Scripts/bootstrap.min.js"></script>
</body>
</html>

```

2.6. ViewStart

2.6.1. Views/_ViewStart.cshtml

```

@{
    //Layout = "~/Views/Shared/_Layout.cshtml";
    Layout = Request.Browser.IsBrowser("Chrome") ?
        "~/Views/Shared/_ChomeLayout.cshtml" :
        "~/Views/Shared/_Layout.cshtml";
}

```

2.6.2. Views/Gamer/_ViewStart.cshtml

```

@{
    Layout = "~/Views/Shared/_Layout2.cshtml";
}

```

2.6.3. Views/Team/_ViewStart.cshtml

```

@{
    Layout = "~/Views/Shared/_Layout4.cshtml";
}

```

2.7. Views/Shared/_GamerDetails.cshtml (Partial View)

Partial View name prefix is "_".
E.g. **_GamerDetails.cshtml**

Add View

View name:
_GamerDetails

Template:
Details

Model class:
Gamer (OnlineGame.Web.Models)

Options:

☒ Create as a partial view

☐ Reference script libraries

☒ Use a layout page:

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

Add
Cancel

```
@model OnlineGame.Web.Models.Gamer
```

```
<div>
    <h4>Gamer</h4>
    <hr />
    <dl class="dl-horizontal">
        <dt>
            @Html.DisplayNameFor(model => model.Name)
        </dt>
        <dd>
            @Html.DisplayFor(model => model.Name)
        </dd>
        <dt>
            @Html.DisplayNameFor(model => model.Gender)
        </dt>
        <dd>
            @Html.DisplayFor(model => model.Gender)
        </dd>
        <dt>
            @Html.DisplayNameFor(model => model.Score)
        </dt>
        <dd>
            @Html.DisplayFor(model => model.Score)
        </dd>
    </dl>
</div>
<p>
    @Html.ActionLink("Edit", "Edit", new { id = Model.Id }) |
    @Html.ActionLink("Back to List", "Index")
</p>
```

2.8. Views/Home

2.8.1. Views/Home/Index2.cshtml

Add View

View name:

Template:

Model class:

Options:

☐ Create as a partial view

☐ Reference script libraries

☒ Use a layout page:

...

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

Add Cancel

```
@{
    ViewBag.Title = "Index2";
    Layout = "~/Views/Shared/_Layout2.cshtml";
}
<h2>Index2</h2>
```

Layout 2

Index2

2.8.2. Views/Home/Index3.cshtml

Add View

View name:

Template:

Model class:

Options:

☐ Create as a partial view

☐ Reference script libraries

☒ Use a layout page:

...

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

Add Cancel

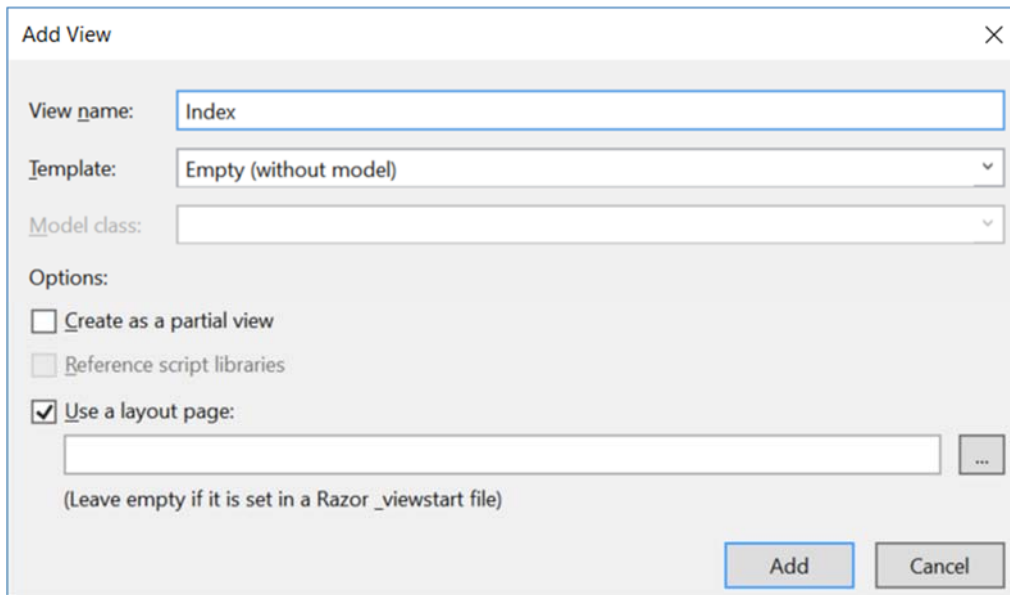
```
@{
    ViewBag.Title = "Index3";
}
<h2>Index3</h2>
```

Layout 3

Index3

2.9. Views/Gamer

2.9.1. Views/Gamer/Index.cshtml



The 'Add View' dialog box is shown with the following settings:

- View name: Index
- Template: Empty (without model)
- Model class: (empty)
- Options:
 - ☐ Create as a partial view
 - ☐ Reference script libraries
 - ☒ Use a layout page: (empty text box with a browse button '...')

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

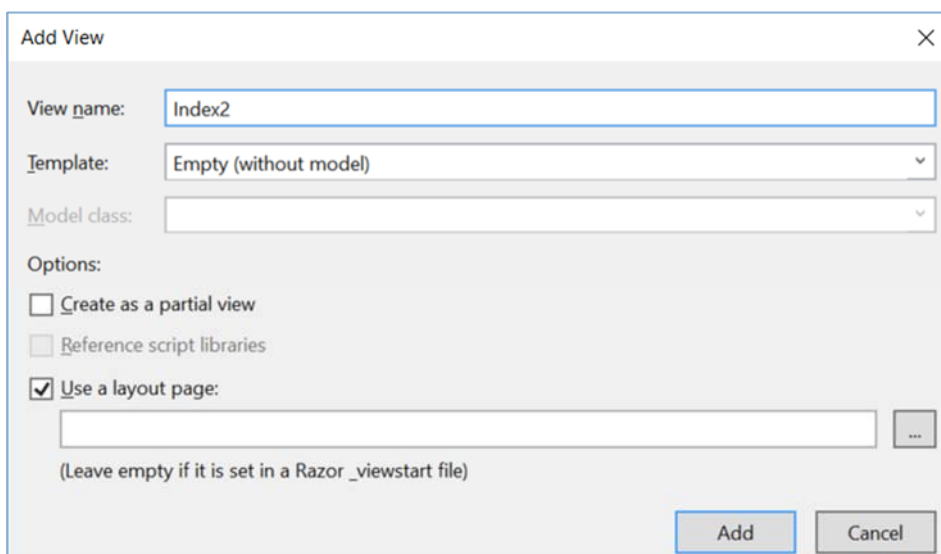
Buttons: Add, Cancel

```
@{  
    ViewBag.Title = "Index";  
}  
<h2>Index</h2>
```

Layout 2

Index

2.9.2. Views/Gamer/Index2.cshtml



The 'Add View' dialog box is shown with the following settings:

- View name: Index2
- Template: Empty (without model)
- Model class: (empty)
- Options:
 - ☐ Create as a partial view
 - ☐ Reference script libraries
 - ☒ Use a layout page: (empty text box with a browse button '...')

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

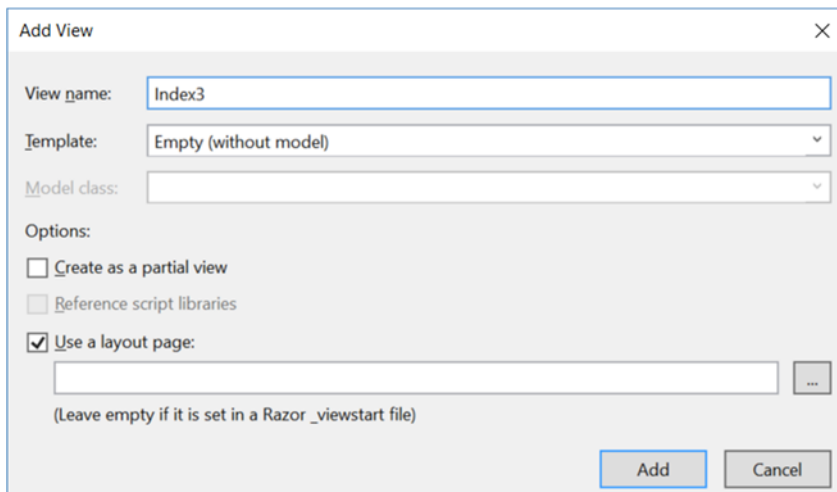
Buttons: Add, Cancel

```
@{  
    ViewBag.Title = "Index2";  
    Layout = "";  
}
```

<h2>Index2</h2>

Index2

2.9.3. Views/Gamer/Index3.cshtml



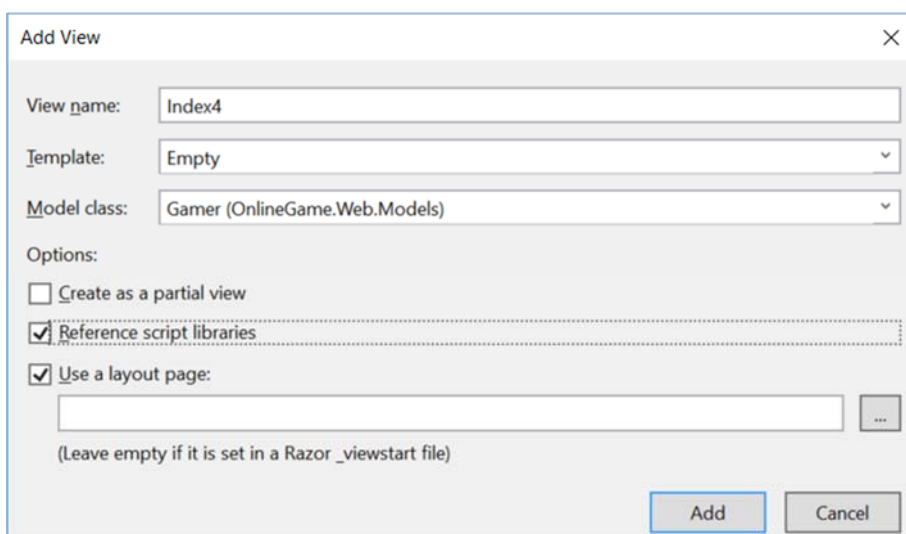
```
@{  
    ViewBag.Title = "Index3";  
    Layout = "~/Views/Shared/_Layout3.cshtml";  
}
```

<h2>Index3</h2>

Layout 3

Index3

2.9.4. Views/Gamer/Index4.cshtml



```
@using OnlineGame.Web.Models
```

```
@model Gamer
```

```
@{
```

```
    ViewBag.Title = "Index4";
```

```
}
```

<h2>Index4</h2>


```

<h3>Html.Partial("_GamerDetails", Model)</h3>
@Html.Partial("_GamerDetails", Model)
<h3>{Html.RenderPartial("_GamerDetails", Model);}</h3>
@{
    Html.RenderPartial("_GamerDetails", Model);
}
@*
1.
//@Html.Partial("_Gamer", modelObj) V.S. { @Html.RenderPartial("_Gamer", modelObj); }
1.1.
Using Partial() only if you need to assign the output to a variable.
RenderPartial() writes output to output stream which provides better performance.
1.2.
//@Html.Partial("_Gamer", modelObj)
Partial return MvcHtmlString.
1.3.
//{ @Html.RenderPartial("_Gamer", modelObj); }
RenderPartial is a void method and writes output to output stream,
so you need { ... }
*@

```

Layout 2

Index4

Html.Partial("_GamerDetails", Model)

Gamer

Name	Name1
Gender	Male
Score	2000

[Edit](#) | [Back to List](#)

{Html.RenderPartial("_GamerDetails", Model);}

Gamer

Name	Name1
Gender	Male
Score	2000

[Edit](#) | [Back to List](#)

2.9.5. Views/Gamer/Details.cshtml

<http://localhost:64525/Gamer/Details>

Layout

Gamer

Name	Name1
Gender	Male
Score	2000

[Edit](#) | [Back to List](#)

Chome Layout

Gamer

Name	Name1
Gender	Male
Score	2000

[Edit](#) | [Back to List](#)

2.9.6. Views/Gamer/Details2.cshtml

<http://localhost:64525/Gamer/Details2>

Gamer

Name	Name1
Gender	Male
Score	2000

[Edit](#) | [Back to List](#)

2.10. Views/Team

2.10.1. Views/Team/Index.cshtml

Add View

View name:

Template:

Model class:

Options:

☐ Create as a partial view

☒ Reference script libraries

☒ Use a layout page:

...

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

Add Cancel

```
@{
    ViewBag.Title = "Index";
}
<h2>Index</h2>
```

Layout 4

Team Index

Index

2.10.2. Views/Team/Index2.cshtml

Add View

View name:

Template:

Model class:

Options:

☐ Create as a partial view

☐ Reference script libraries

☒ Use a layout page:

...

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

Add Cancel

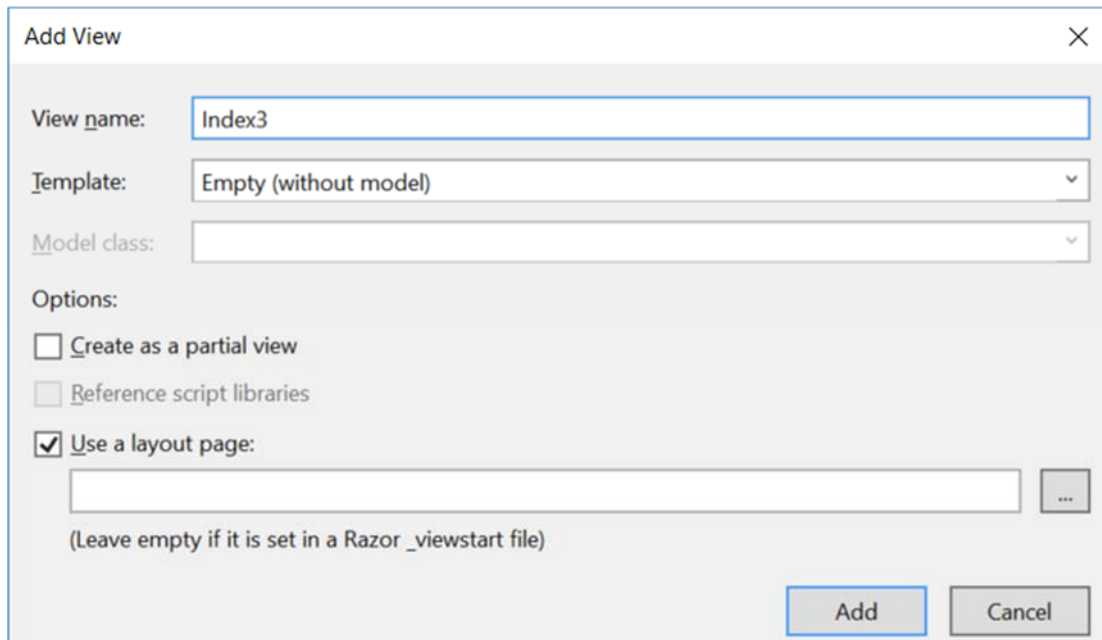
```
@{
    ViewBag.Title = "Index2";
}
<h2>Index2</h2>
```

Layout 4

Team Index

Index2

2.10.3. Views/Team/Index3.cshtml



Add View

View name: Index3

Template: Empty (without model)

Model class:

Options:

☐ Create as a partial view

☐ Reference script libraries

☒ Use a layout page:

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

Add Cancel

```
@{
    ViewBag.Title = "Index3";
}
@section Menu
{
    @Html.ActionLink("Team Index", "Index") <br />
    @Html.ActionLink("Team Index2", "Index2") <br />
    @Html.ActionLink("Team Index2", "Index3")
}
@section ExtraInfo
{
    Extra Info<br />
}
<h2>Index3</h2>
```

Layout 4

Team Index

Team Index2

Team Index2

Extra Info

Index3