

In the name of God

Learning ASP.NET Core MVC (.NET 5)

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Version 1.0

Branch: STEP_1

1. In visual studio 2019
 - a. Create a new project
 - i. ASP.NET Core Empty
 1. .NET 5.0
 2. Configure for HTTPS
2. Use Application instead of IIS Express
3. Fix Application
4. Fix appsettings.json
5. In Properties Folder → Fix launchSettings.json
6. Right Click on Application (Project) → Select Properties Menu Item →
Startup object: Application.Program

7. Fix Program.cs

```
using Microsoft.AspNetCore.Hosting;
using Microsoft.Extensions.Hosting;

namespace Application
{
    public class Program : object
    {
        public Program() : base()
        {
        }

        public static void Main(string[] args)
        {
            // Run -> using Microsoft.Extensions.Hosting;
            CreateHostBuilder(args).Build().Run();
        }

        public static Microsoft.Extensions.Hosting.IHostBuilder CreateHostBuilder(string[] args)
        {
            var hostBuilder =
                Microsoft.Extensions.Hosting.Host.CreateDefaultBuilder(args)
                    .ConfigureWebHostDefaults(webBuilder =>
                    {
                        // UseStartup -> using Microsoft.AspNetCore.Hosting;
                        webBuilder.UseStartup<Startup>();
                    });

            return hostBuilder;
        }
    }
}
```

8. Fix Startup.cs

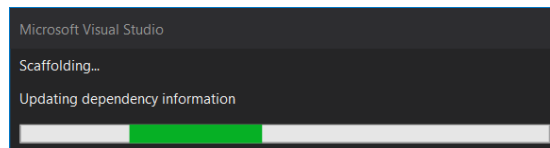
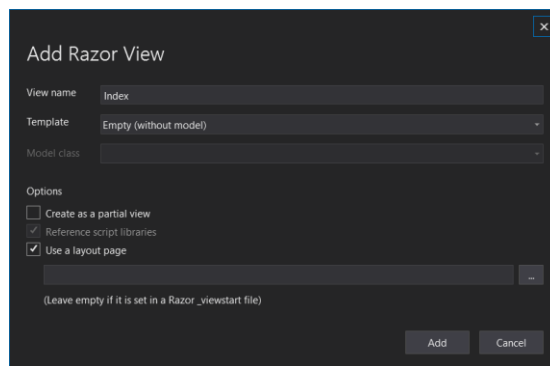
Branch: STEP_2

1. Create Controllers Folder
2. Right click on Controllers Folder → Select Add Menu Item → Select Controller Menu Item → Select MVC Controller - Empty Item → Create HomeController
3. Fix HomeController

```
namespace Application.Controllers
{
    public class HomeController : Microsoft.AspNetCore.Mvc.Controller
    {
        public HomeController() : base()
        {
        }

        public Microsoft.AspNetCore.Mvc.ViewResult Index()
        {
            return View();
        }
    }
}
```

4. Right click on [Index()] → Select [Add View] menu item → Select [Razor View] → Click on [Add] Button



5. In created folder: Views → In created folder Home → Fix Index.cshtml

```
@{
    ViewData["Title"] = "Index";
}

<h1>
    Home
</h1>
```

6. In [Views] folder → Create folder → [Shared]

7. In [Shared] folder → Create [_Layout.cshtml]

<https://getbootstrap.com/>

<https://getbootstrap.com/docs/5.1/getting-started/download/>

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>@(ViewData["Title"])</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css" rel="stylesheet"
    integrity="sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4F3kqJByhZMI3AhiU" crossorigin="anonymous">
</head>
<body>
    <header>
    </header>

    <div class="container">
        @(RenderBody())
    </div>

    <footer class="border-top footer text-muted">
    </footer>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-
    /bQdsTh/da6pkI1MST/rWKFJnCP5gBSY4sEBT38Q/9RBh9AH40zEOg7Hlq2THRZ" crossorigin="anonymous"></script>
</body>
</html>
```

8. In [Views] folder → Create [_ViewStart.cshtml]

```
@{
    Layout = "_Layout";
}
```

9. In [Views] folder → Create [_ViewImports.cshtml]

```
@using Application
@addTagHelper *, Microsoft.AspNetCore.Mvc.TagHelpers
```

10. Fix Application

11. Fix Startup.cs:

```
using Microsoft.AspNetCore.Builder;
using Microsoft.Extensions.Hosting;
using Microsoft.Extensions.DependencyInjection;

namespace Application
{
    public class Startup : object
    {
        public Startup() : base()
        {
        }

        public void ConfigureServices
            (Microsoft.Extensions.DependencyInjection.IServiceCollection services)
        {
            // using Microsoft.Extensions.DependencyInjection;
            services.AddControllersWithViews();
        }

        public void Configure
            (Microsoft.AspNetCore.Builder.IApplicationBuilder app,
            Microsoft.AspNetCore.Hosting.IWebHostEnvironment env)
        {
            // IsDevelopment -> using Microsoft.Extensions.Hosting;
            if (env.IsDevelopment())
            {
                // UseDeveloperExceptionPage -> using Microsoft.AspNetCore.Builder;
                app.UseDeveloperExceptionPage();
            }

            // UseHttpsRedirection -> using Microsoft.AspNetCore.Builder;
            app.UseHttpsRedirection();

            // UseStaticFiles -> using Microsoft.AspNetCore.Builder;
            app.UseStaticFiles();

            // UseRouting -> using Microsoft.AspNetCore.Builder;
            app.UseRouting();

            // UseRouting -> using Microsoft.AspNetCore.Builder;
            //app.UseCookiePolicy();
            // UseRouting -> using Microsoft.AspNetCore.Builder;
            //app.UseAuthentication();
            // UseRouting -> using Microsoft.AspNetCore.Builder;
            //app.UseAuthorization();

            // UseEndpoints -> using Microsoft.AspNetCore.Builder;
            app.UseEndpoints(endpoints =>
            {
                // MapControllerRoute -> using Microsoft.AspNetCore.Builder;
                endpoints.MapControllerRoute(
                    name: "default",
                    pattern: "{controller=Home}/{action=Index}/{id?}");
            });
        }
    }
}
```