Setting up an MVC Application



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Overview



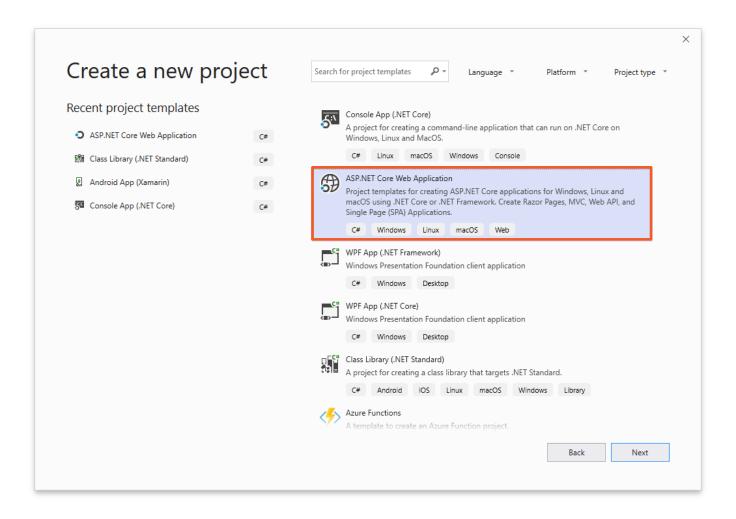
Exploring the project structure
Configuring the site



Exploring the Project Structure

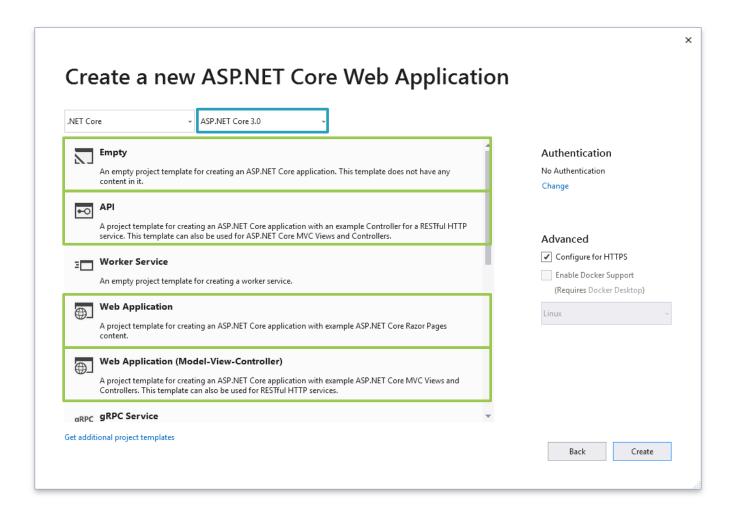


Creating a New Project



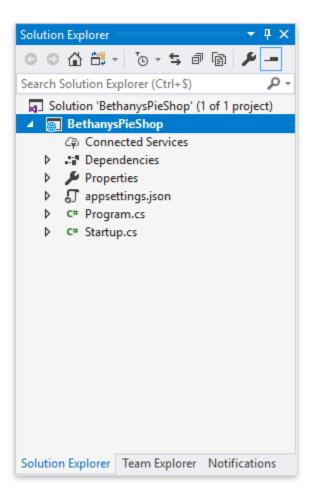


Available Project Templates



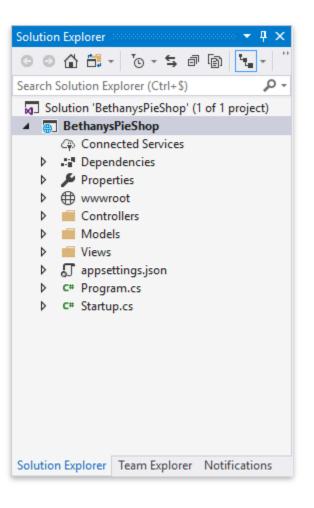


Project Structure (Empty)





Project Structure (Web Application MVC)





Demo



File → New Project

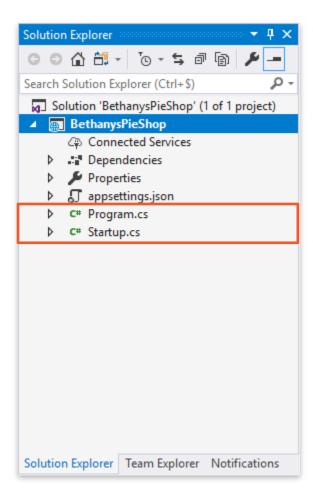
Exploring the new project



Site Configuration



Project Structure





Program.cs

```
public class Program
     public static void Main(string[] args)
          CreateHostBuilder(args).Build().Run();
public static IHostBuilder CreateHostBuilder(string[] args) =>
     Host.CreateDefaultBuilder(args)
     .ConfigureWebHostDefaults(webBuilder =>
          webBuilder.UseStartup<Startup>();
     });
```



Program.cs

```
public class Program
{
    public static void Main(string[] args)
    {
        CreateWebHostBuilder(args).Build().Run();
    }

    public static IWebHostBuilder CreateWebHostBuilder(string[] args) =>
      WebHost.CreateDefaultBuilder(args)
        .UseStartup<();
}</pre>
```



Program.cs

```
public class Program
{
    public static void Main(string[] args)
    {
        CreateWebHostBuilder(args).Build().Run();
    }

    public static IWebHostBuilder CreateWebHostBuilder(string[] args) =>
    WebHost.CreateDefaultBuilder(args)
        .UseStartup<Startup>();
}
```



Startup.cs

```
public class Startup
     public void ConfigureServices(IServiceCollection services)
     public void Configure(IApplicationBuilder app,
          IHostingEnvironment env)
```



```
public void ConfigureServices(IServiceCollection services)
{
    //register services here through Dependency Injection
}
```

ConfigureServices Method



Tight Coupling



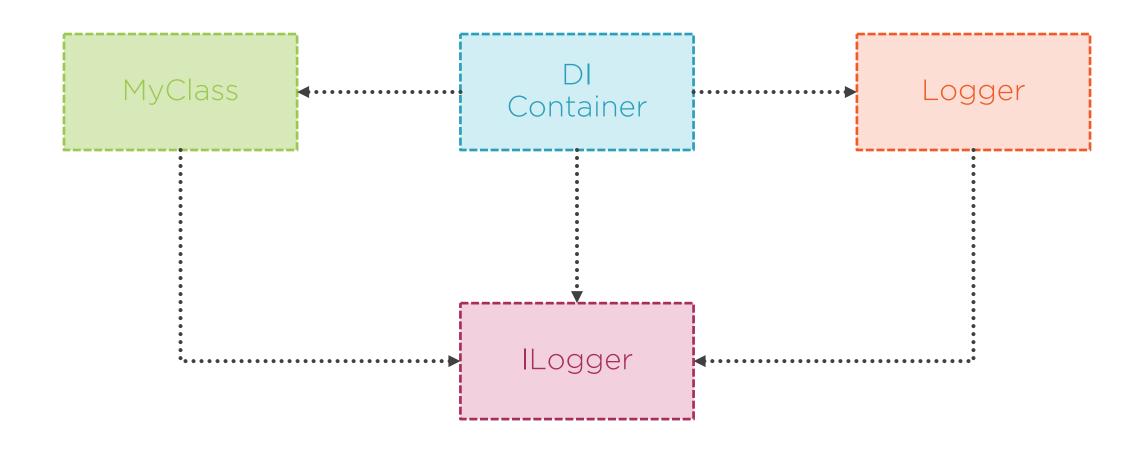


Adding Interfaces to the Mix





Adding Interfaces to the Mix





```
public void ConfigureServices(IServiceCollection services)
{
    //register framework services
    services.AddControllersWithViews();
    //register our own services (more later)
}
```

ConfigureServices Method

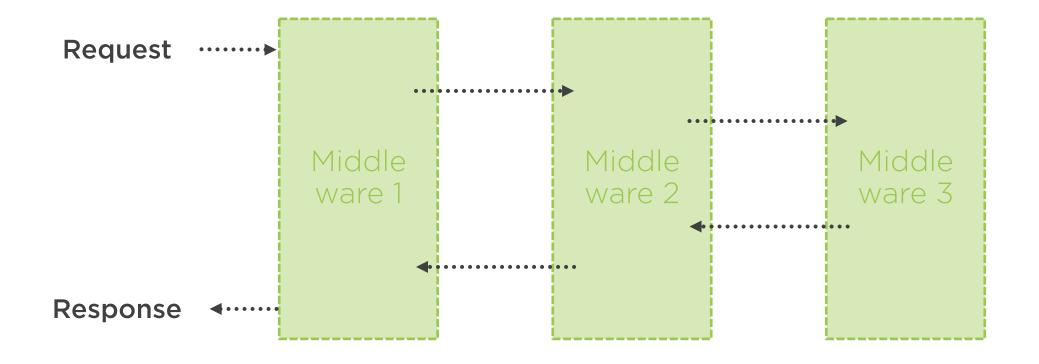


Configure Method

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
    //add middleware components here
}
```



Middleware Request Pipeline



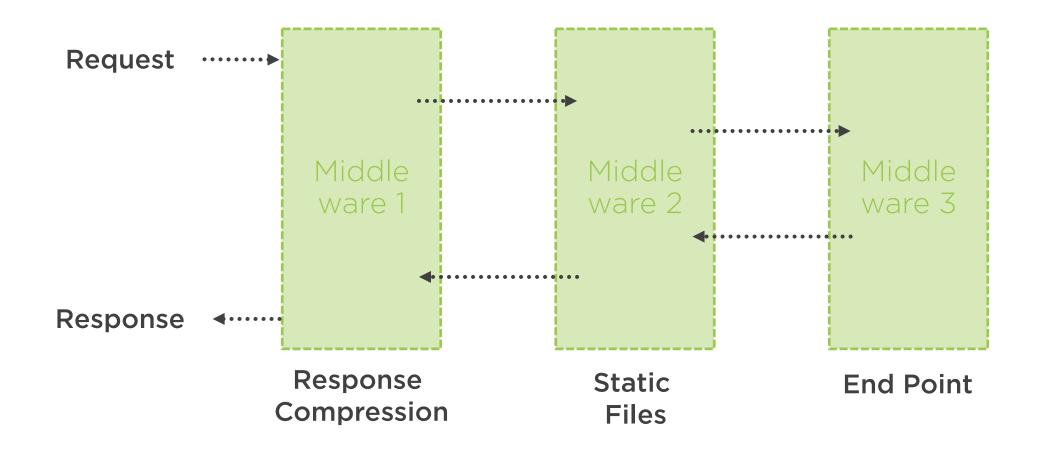


Configure Method

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
    app.UseDeveloperExceptionPage();
    app.UseStatusCodePages();
    app.UseStaticFiles();
    app.UseEndpoints(endpoints =>
    { ... });
}
```

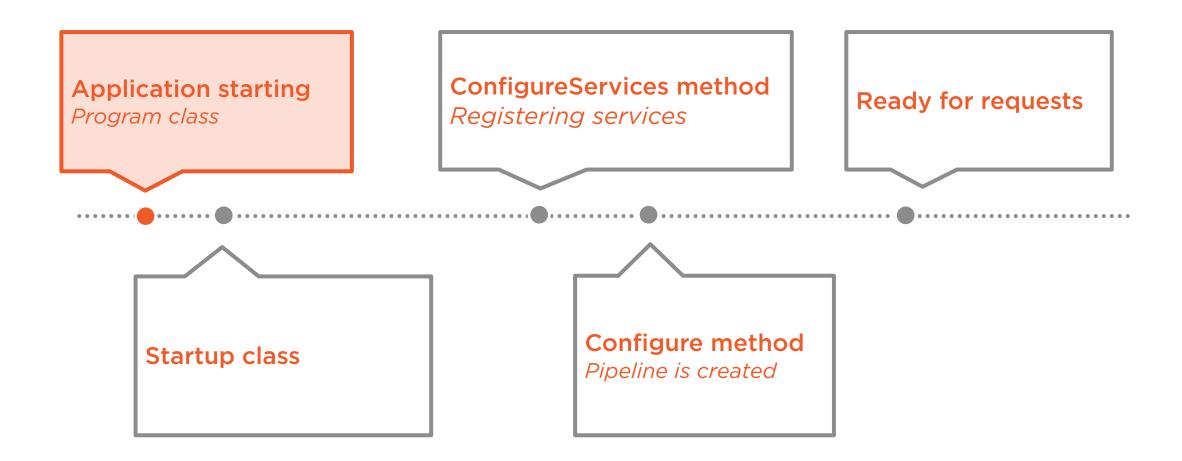


Ordering Middleware Components





The Startup of the Application





Demo



Configuring the site



Summary



ASP.NET Core MVC applications have a new project structure

Dependency injection is built-in

Middleware components





Up next:Creating the first page using MVC

