Setting Up an MVC Application

Overview



- Exploring the project structure
- Configuring the site

Using VS Code and CLI

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C:\Users\Raed\Desktop\Trianing\Demos\CLI Project>dotnet new Usage: new [options]

Options:

Displays help for this command. -h, --help

-1, --list Lists templates containing the specified name. If no name is specified, lists all templates.

-n, --name The name for the output being created. If no name is specified, the name of the current directory is used.

-o, --output Location to place the generated output. -i, --install Installs a source or a template pack. Uninstalls a source or a template pack. -u, --uninstall

Specifies a NuGet source to use during install. --nuget-source

Filters templates based on available types. Predefined values are "project", "item" or "other". --type

Displays a summary of what would happen if the given command line were run if it would result in a template creation. --dry-run

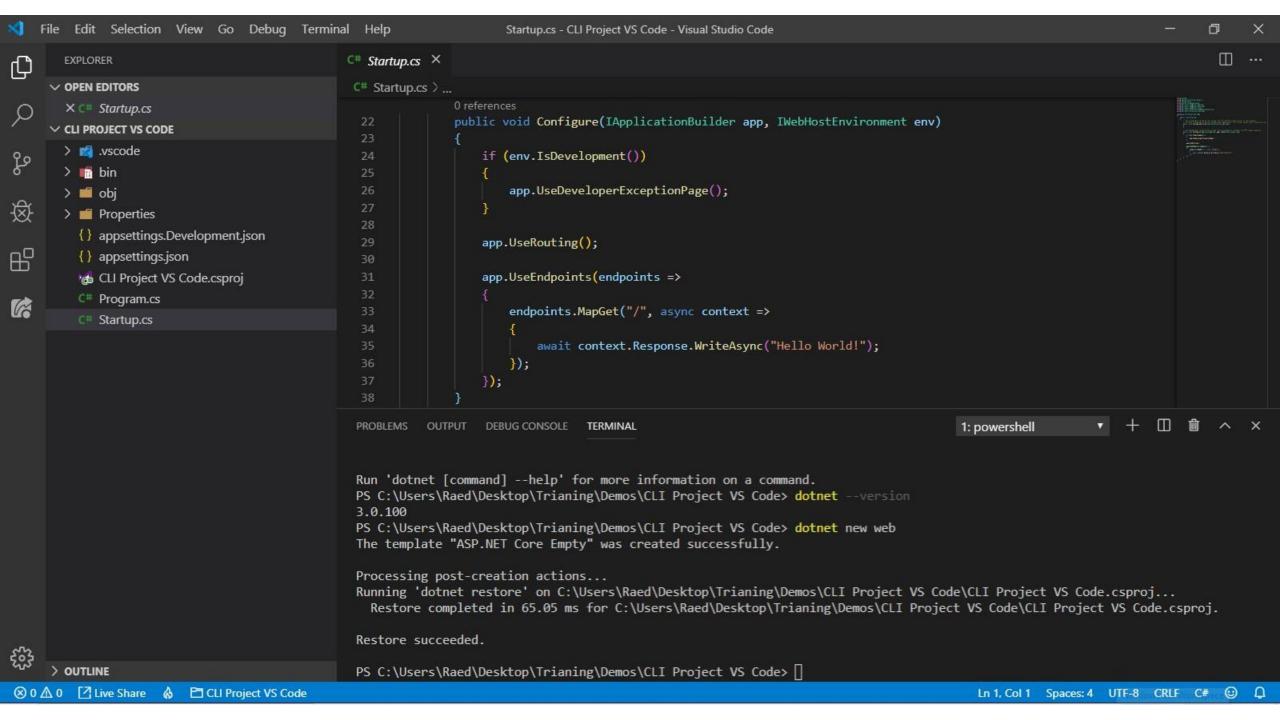
--force Forces content to be generated even if it would change existing files.

Filters templates based on language and specifies the language of the template to create. -lang, --language

Check the currently installed template packs for updates. --update-check

--update-apply Check the currently installed template packs for update, and install the updates.

Templates	Short Name	Language	Tags
Console Application Class library WPF Application WPF Class library WPF Custom Control Library WPF User Control Library Windows Forms (WinForms) Application	console classlib wpf wpflib wpfcustomcontrollib wpfusercontrollib winforms	[C#], F#, VB [C#], F#, VB [C#] [C#] [C#] [C#] [C#] [C#] [C#]	Common/Console Common/Library Common/WPF Common/WPF Common/WPF Common/WPF Common/WPF Common/WPF
Windows Forms (WinForms) Class library Worker Service Unit Test Project NUnit 3 Test Project	winformslib worker mstest nunit	[C#] [C#] [C#], F#, VB [C#], F#, VB	Common/WinForms Common/Worker/Web Test/MSTest Test/NUnit

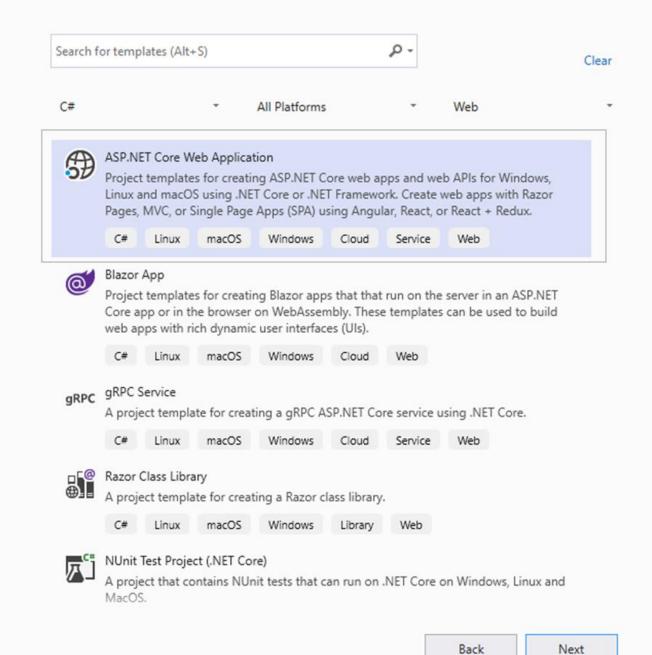


Exploring the Project Structure

Create a new project

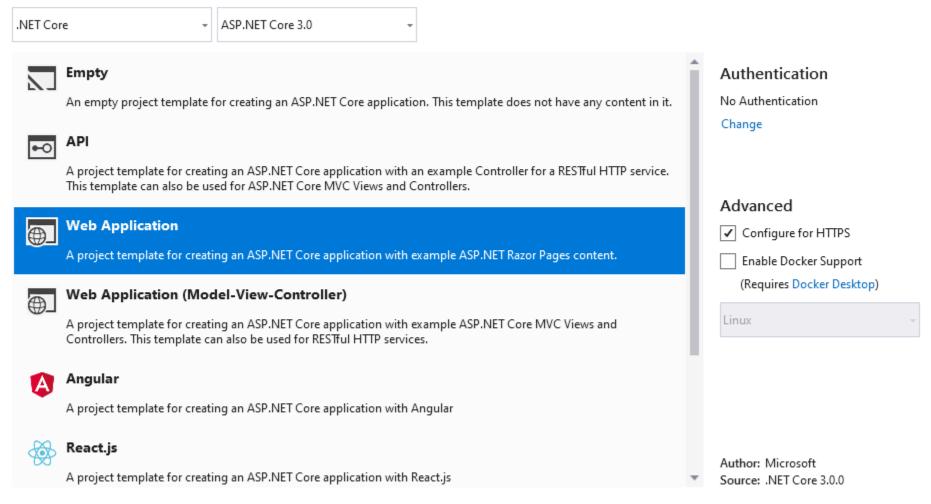
Recent project templates

◆ ASP.NET Core Web Application Ca



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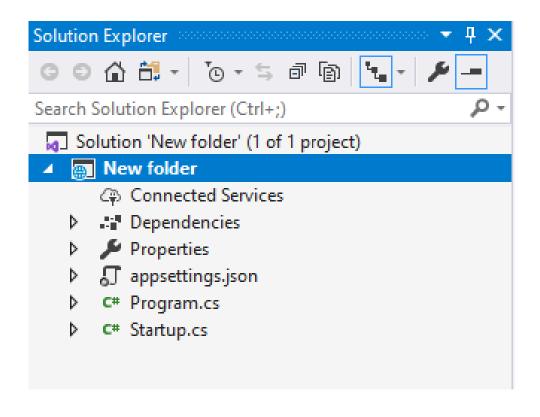
Create a new ASP.NET Core web application



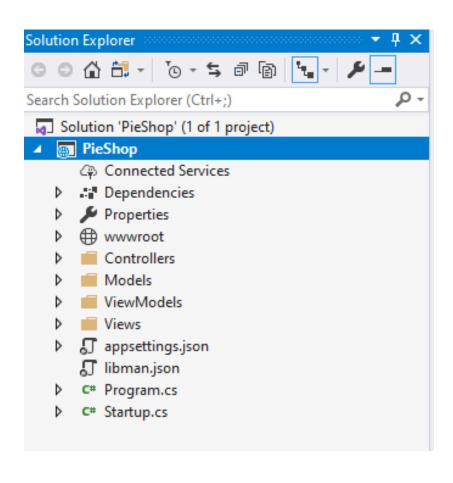
Get additional project templates

Back Create

Project Structure (Empty)



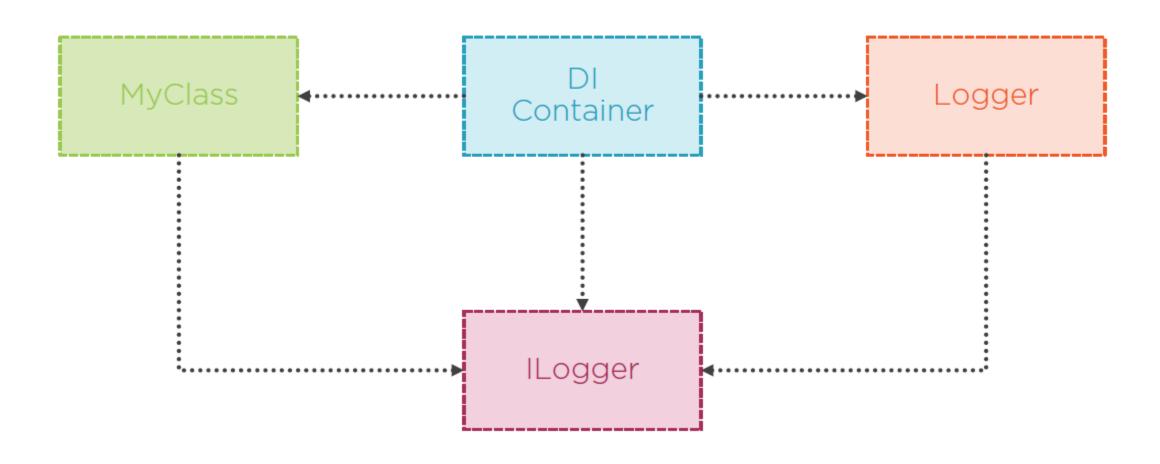
Project Structure (Web Application MVC)



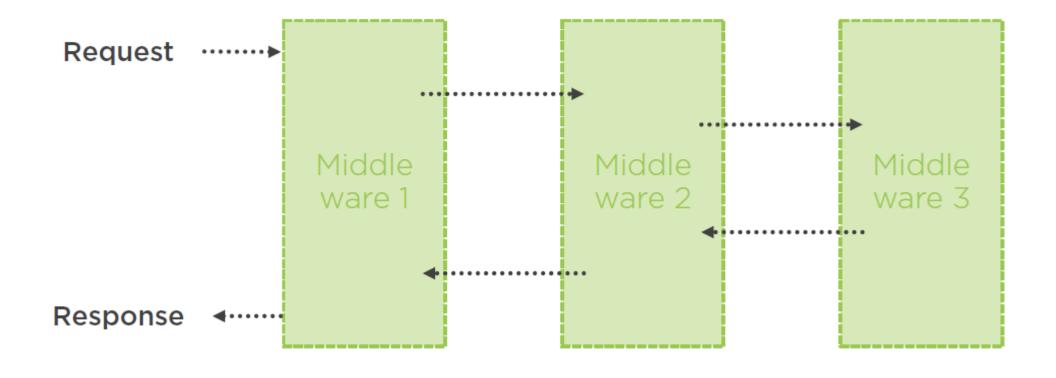
```
public class Program
    public static void Main(string[] args)
        CreateHostBuilder(args).Build().Run();
    public static IHostBuilder CreateHostBuilder(string[] args) =>
        Host.CreateDefaultBuilder(args)
            .ConfigureWebHostDefaults(webBuilder =>
                webBuilder.UseStartup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

```
public class Startup
    // This method gets called by the runtime. Use this method to add services to the container.
    // For more information on how to configure your application, visit https://go.microsoft.com/fwlink/
   public void ConfigureServices(IServiceCollection services)
    // This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
    public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
        if (env.IsDevelopment())
            app.UseDeveloperExceptionPage();
        app.UseRouting();
        app.UseEndpoints(endpoints =>
            endpoints.MapGet("/", async context =>
                await context.Response.WriteAsync("Hello World!");
            });
        });
```

Dependency Injection (DI)



Middleware Request Pipeline



The Startup of the Application

