Episode 3

ASP.NET CORE EMPTY PROJECT STRUCTURE EXPLAINED

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WHY WE HAVE SELECTED EMPTY PROJECT?

Okay, so the thing is with other templates, you'll get a lot of pre-written code because of which you won't be able to understand the basics which are very important.
In Empty Project, you'll get only Program.cs file which is the entry point of the Program.

In next slide, I have explained the default code which is written in Program.cs file.
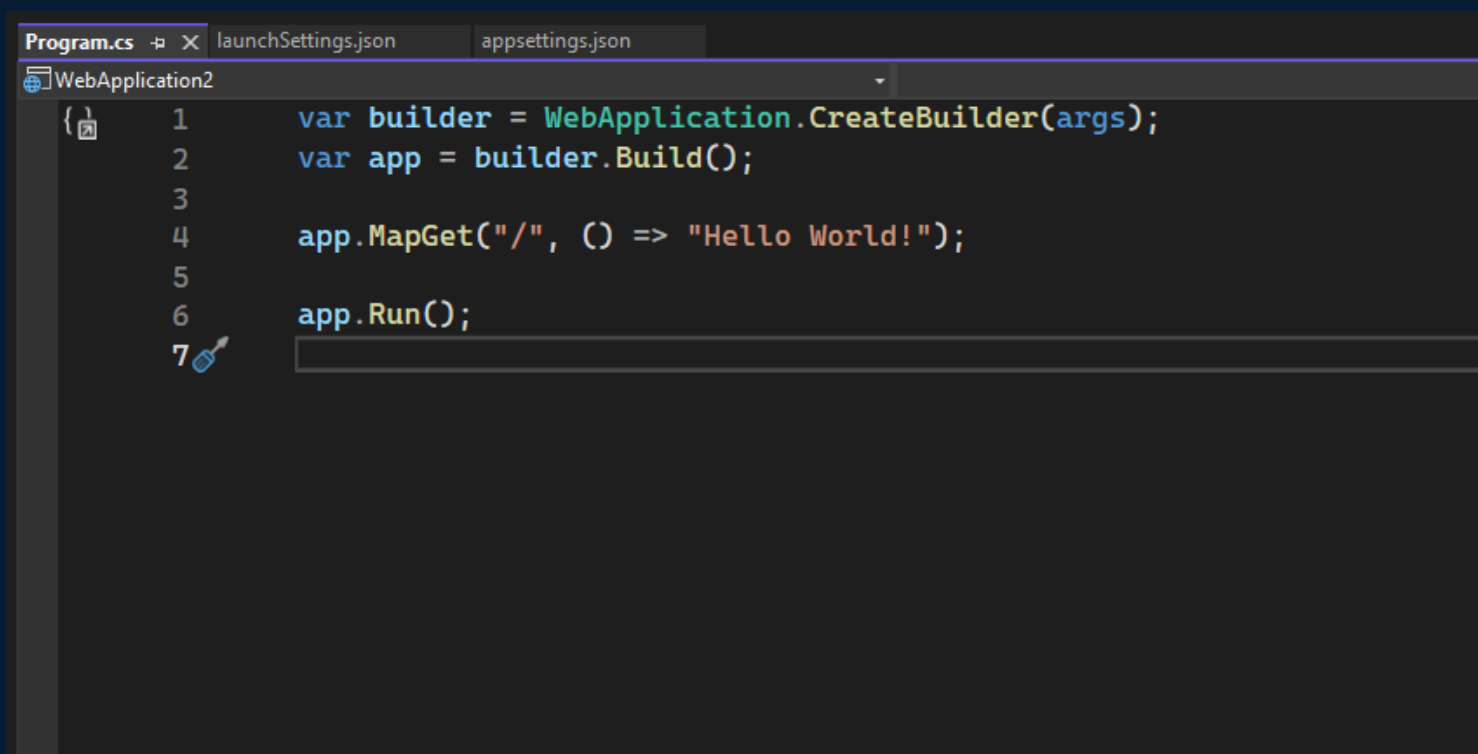
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ENTRY POINT – PROGRAM.CS

The heart of the ASP.NET Core application! 🏗️
  1. Entry point of the application
  2. Configures the web server & request pipeline
  3. Can be customized to add middleware, routing, and services

```
Program.cs  ⊕ ×  launchSettings.json      appsettings.json
WebApplication2
  1        var builder = WebApplication.CreateBuilder(args);
  2        var app = builder.Build();
  3
  4        app.MapGet("/", () => "Hello World!");
  5
  6        app.Run();
  7
```

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UNDERSTANDING THE WEBAPPLICATION BUILDER

Let's break down what happens in Program.cs.

1. WebApplication.CreateBuilder(args); → Creates the application builder.
2. builder.Build(); → Builds the application.
3. app.MapGet("/", () => "Hello World"); → Defines a simple endpoint.
4. app.Run(); → Runs the web server.

Now I hope you got it, how you were seeing "Hello World" in previous episode.

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WHAT IS MIDDLEWARE IN ASP.NET CORE?

Middleware is a pipeline of components that handle HTTP requests and responses in an ASP.NET Core application.

1. Middleware executes in order, processing requests before passing them to the next component.
2. Each middleware can modify the request, response, or even stop the execution.
3. Examples of built-in middleware: Authentication, Routing, Exception Handling, etc.
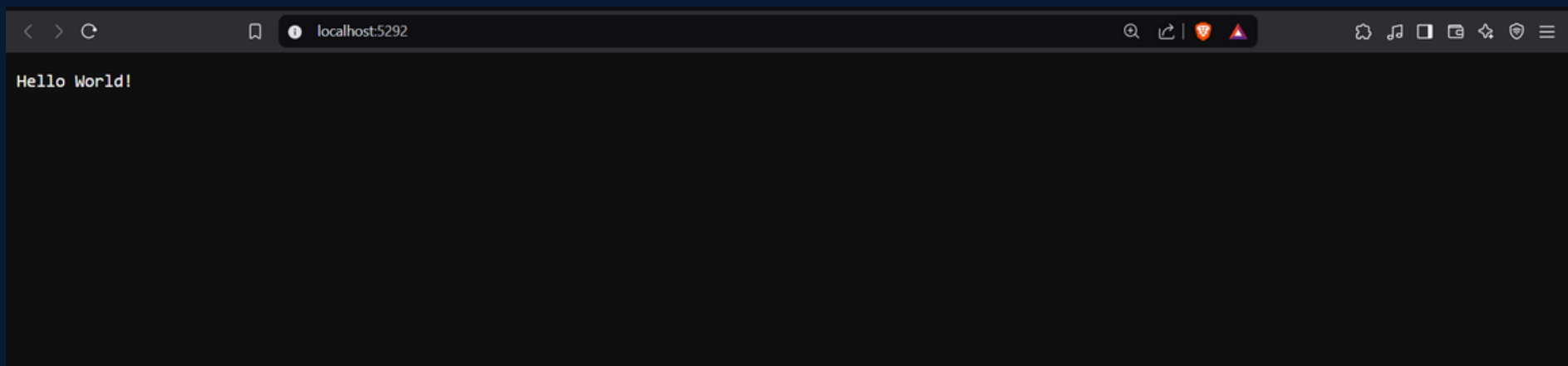
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FIRST VIEW

Congrats !! You have taken 1st step in learning ASP.NET Core MVC.

We have followed the Ritual of starting our journey with
"Hello World"

Bonus: In case if you wanna edit this text, go to Program.cs
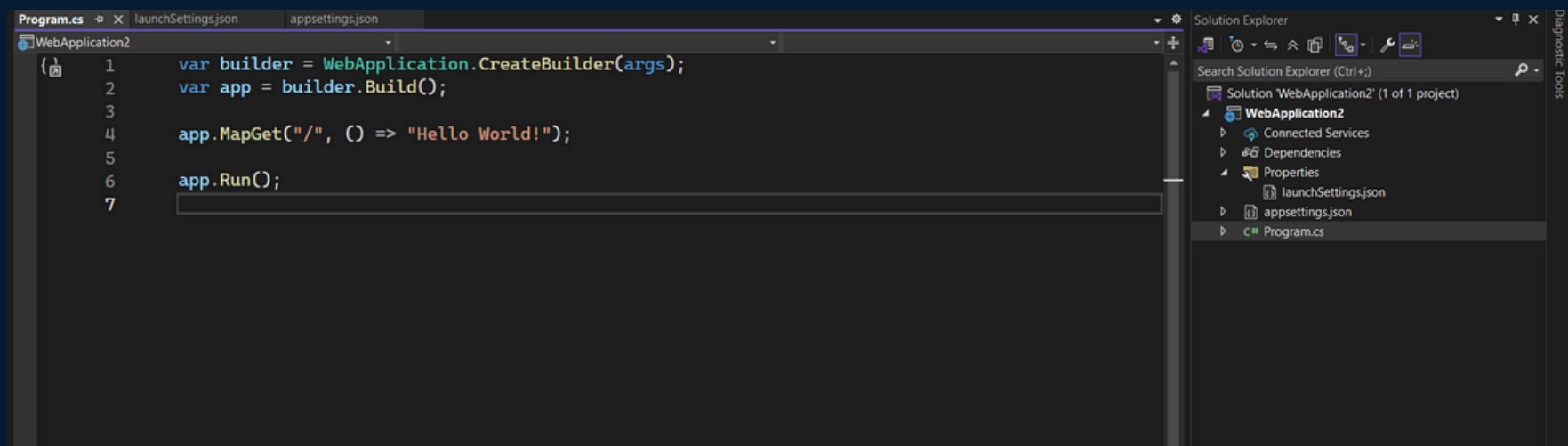
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WHAT'S NEXT?

SInce we have had a first look at your "Hello World", we're going to have a look at our Program.cs file in next Episode. We'll also learn about middleware in next Episode. As Middleware is one of the most important concept.

Trust me it's very easy. We just need to maintain consistency.

Cya in next Episode.

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