Creating Your First Blazor Application



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Module overview



Exploring a new Blazor project
Creating a first Blazor application
Improving the layout
Debugging Blazor applications

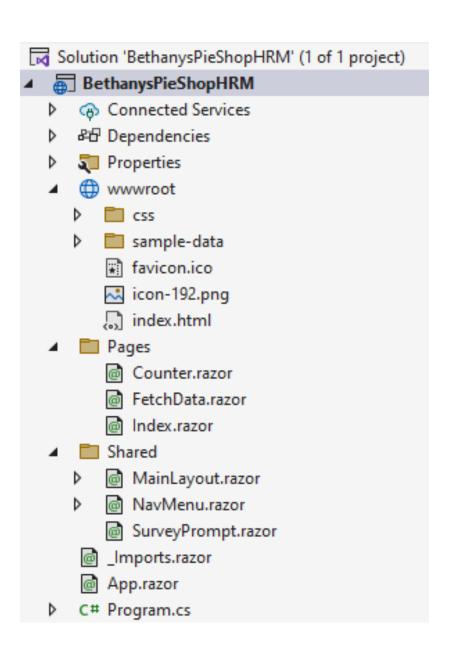
Exploring a New Blazor Project



File -> New Project

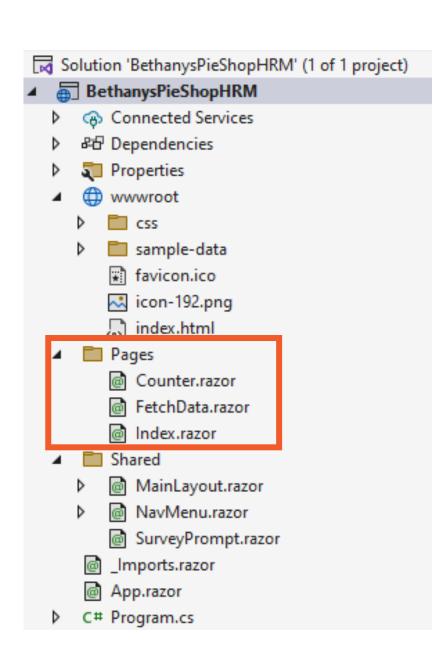
C# and .razor files

Structure similar to ASP.NET Core project





Razor Components in Blazor



Main building block in Blazor applications

*.razor files

Razor syntax

Contain UI and logic

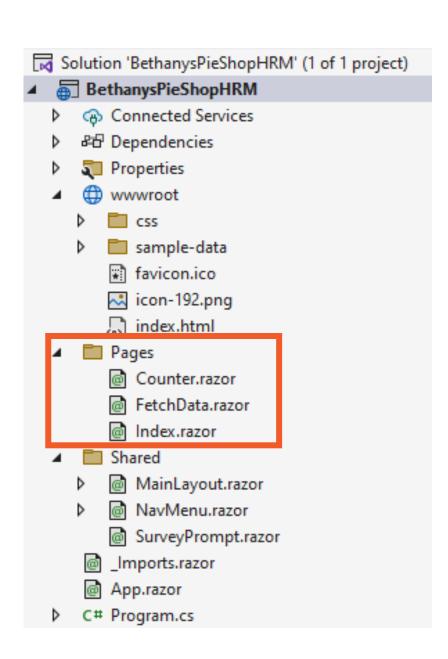
- Handle events
- Logic typically in a component class

Rendered on the client

Not a request/response model



Razor Components in Blazor



Often nested

Reused across the application or in a library

Class generated upon compilation



A, B, C

Component names must start with an uppercase!



Looking at a First Component

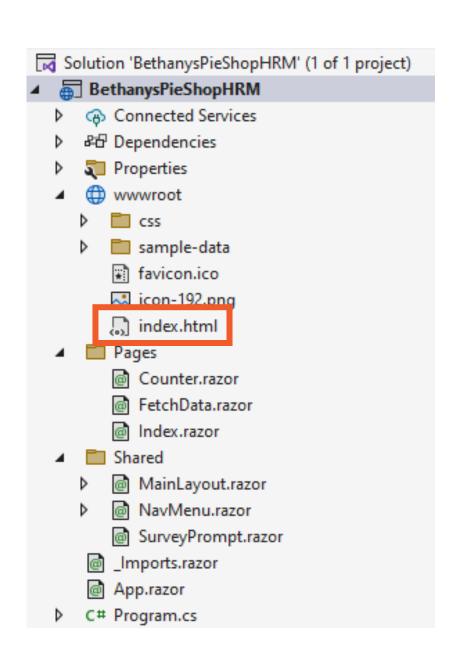
Counter.razor

```
@page "/counter"
<h1>Counter</h1>
Current count: @currentCount
<button class="btn btn-primary" @onclick="IncrementCount">Click me</button>
@code {
    int currentCount = 0;
    void IncrementCount()
        currentCount++;
```



```
@page "/"
<h1>Hello, world!</h1>
Welcome to your new app.
<Counter />
```

Using a Component



Hosting page

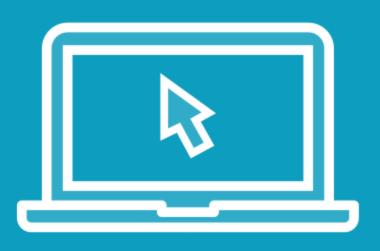
Plain HTML

Triggers loading of the Blazor app through JavaScript

- blazor.webassembly.js



Demo



Creating a new Blazor WebAssembly project

Exploring the created files



New to ASP.NET Core? Razor syntax confusing you?

Take a look at the ASP.NET Core Learning Path!



Creating a First Blazor Application



Using Code

Mixed approach using @code

"Code behind" using partial



Using the Mixed Approach

```
@page "/counter"
<h1>Counter</h1>
Current count: @currentCount
<button class="btn btn-primary" @onclick="IncrementCount">Click me</button>
@code {
    int currentCount = 0;
    void IncrementCount()
        currentCount++;
```

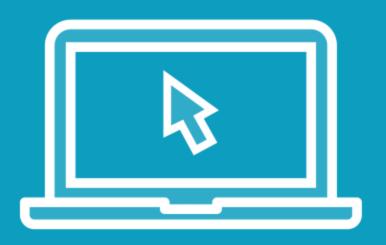


```
public partial class EmployeeOverview
{
}
```

Using Partial Classes

Code-behind

Demo

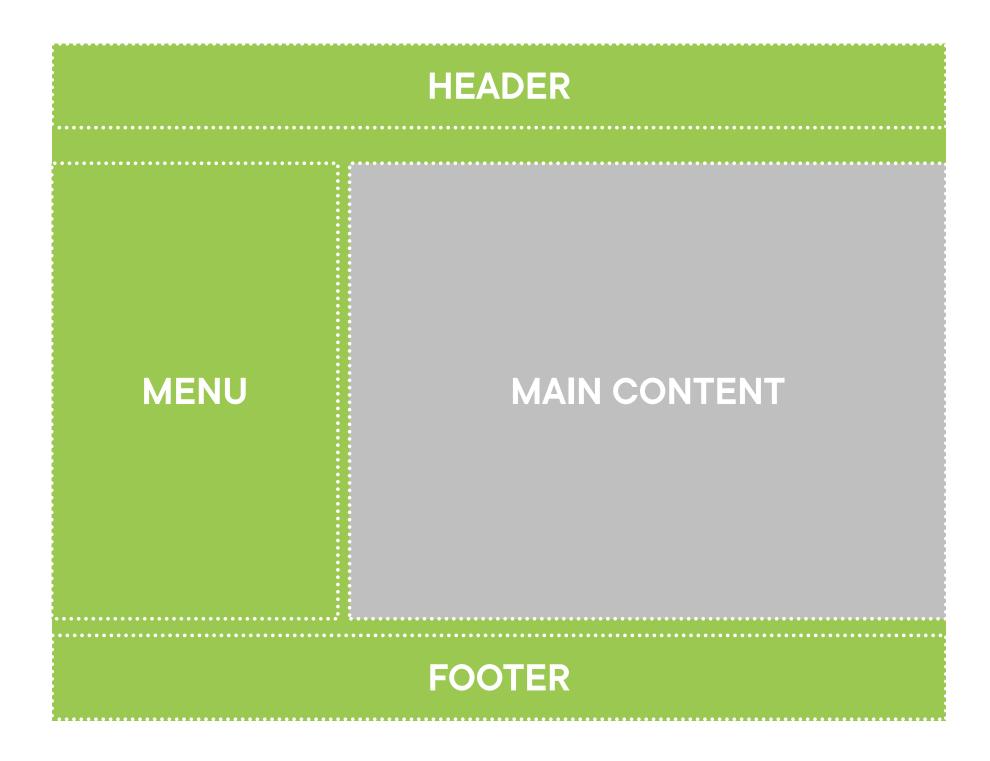


Creating the first page of our application

Improving the Layout



Sharing a Layout





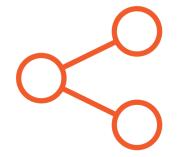
Adding a Layout



Shared UI across several pages



Referenced by page components



Shared folder



Inherit from LayoutComponentBase



Creating a Layout Component

@inherits LayoutComponentBase

```
<div class="page">
    <div class="sidebar">
        <NavMenu />
    </div>
    <main>
        <div class="top-row px-4">
            <a href="https://docs.microsoft.com/aspnet/" target="_blank">About</a>
        </div>
        <article class="content px-4">
            @Body
        </article>
    </main>
</div>
```



@page "/employeeoverview"
@layout BethanysPieShopMainLayout

Applying a Specific Layout

Using a Default Layout

Code from the App.razor

Demo



Improving the layout

Debugging Blazor Applications



Demo



Debugging Blazor applications



Summary



Components are the building block for any Blazor app

Can be nested, reused...

Layouts add consistency





Up next:Working with components

