

Creating Your First Blazor Application



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Module overview



Exploring a new Blazor project

Creating a first Blazor application

Improving the layout

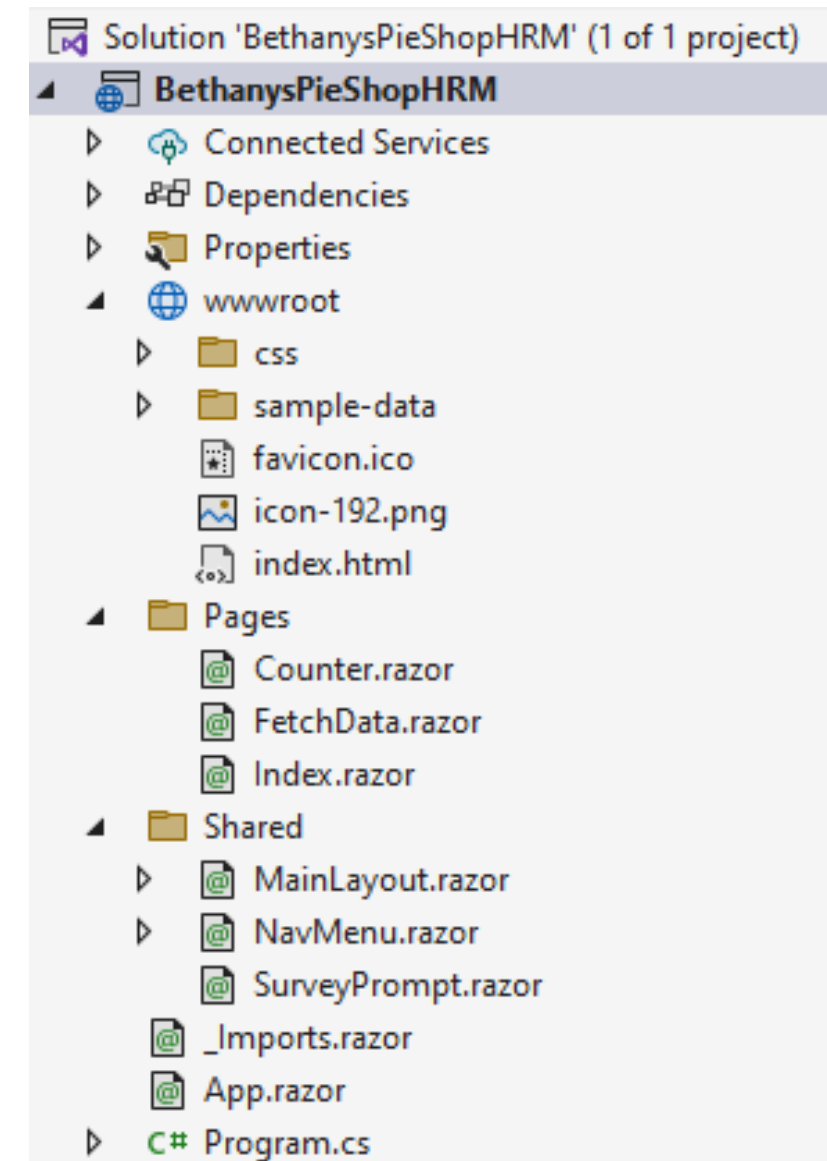
Debugging Blazor applications

Exploring a New Blazor Project

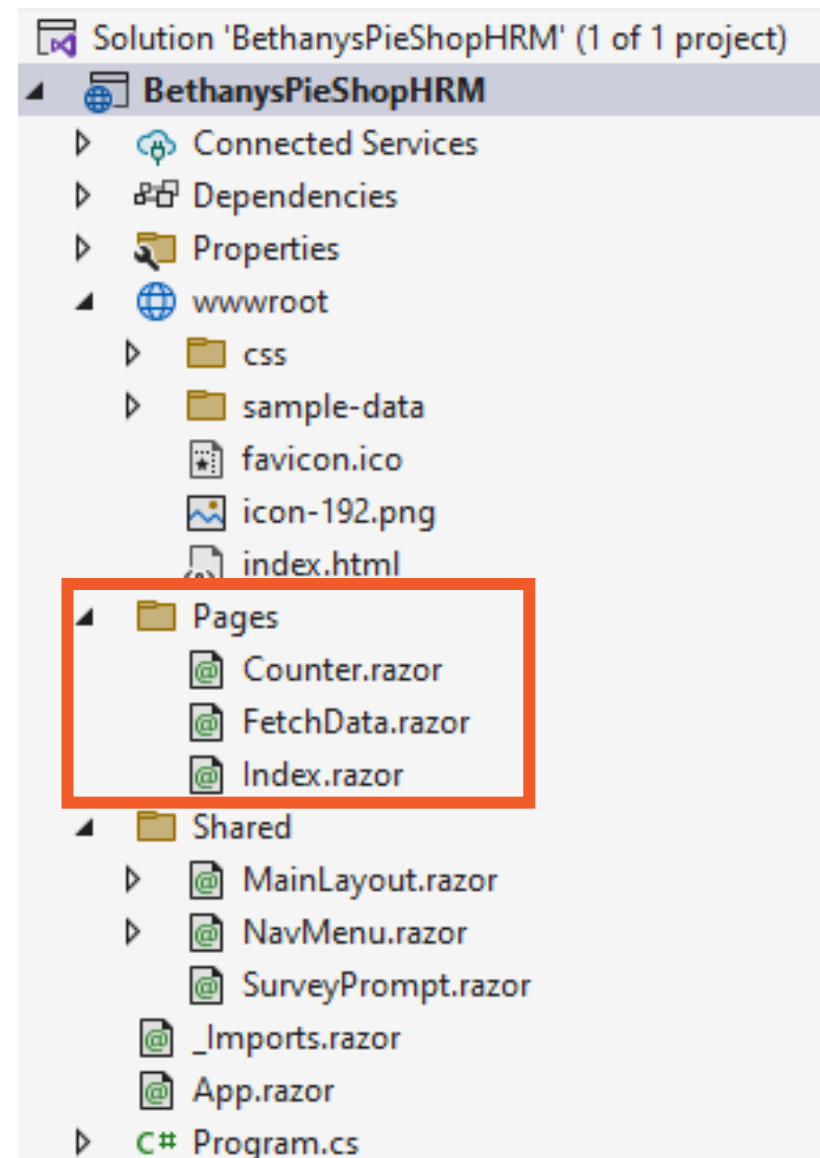
File → New Project

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

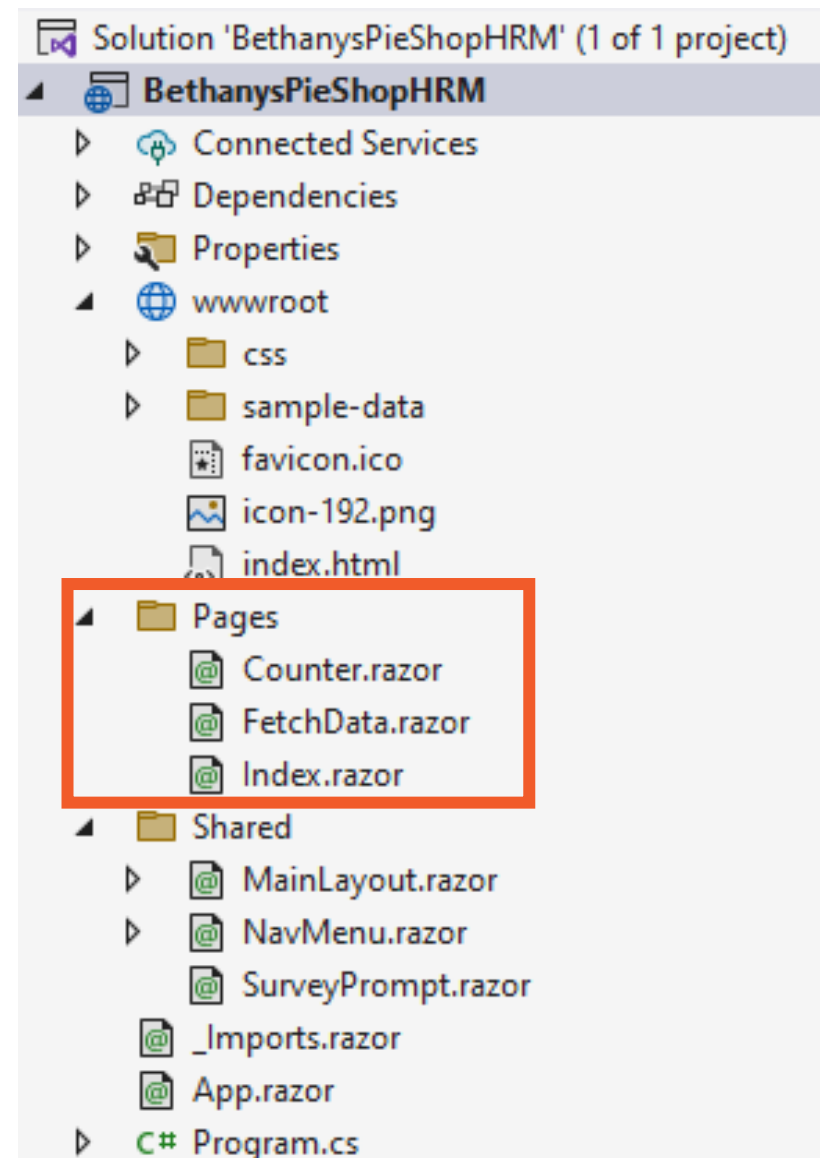
Contain UI and logic

- 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>
```

```
<p>Current count: @currentCount</p>
```

```
<button class="btn btn-primary" @onclick="IncrementCount">Click me</button>
```

```
@code {
```

```
    int currentCount = 0;
```

```
    void IncrementCount()
```

```
    {
```

```
        currentCount++;
```

```
    }
```

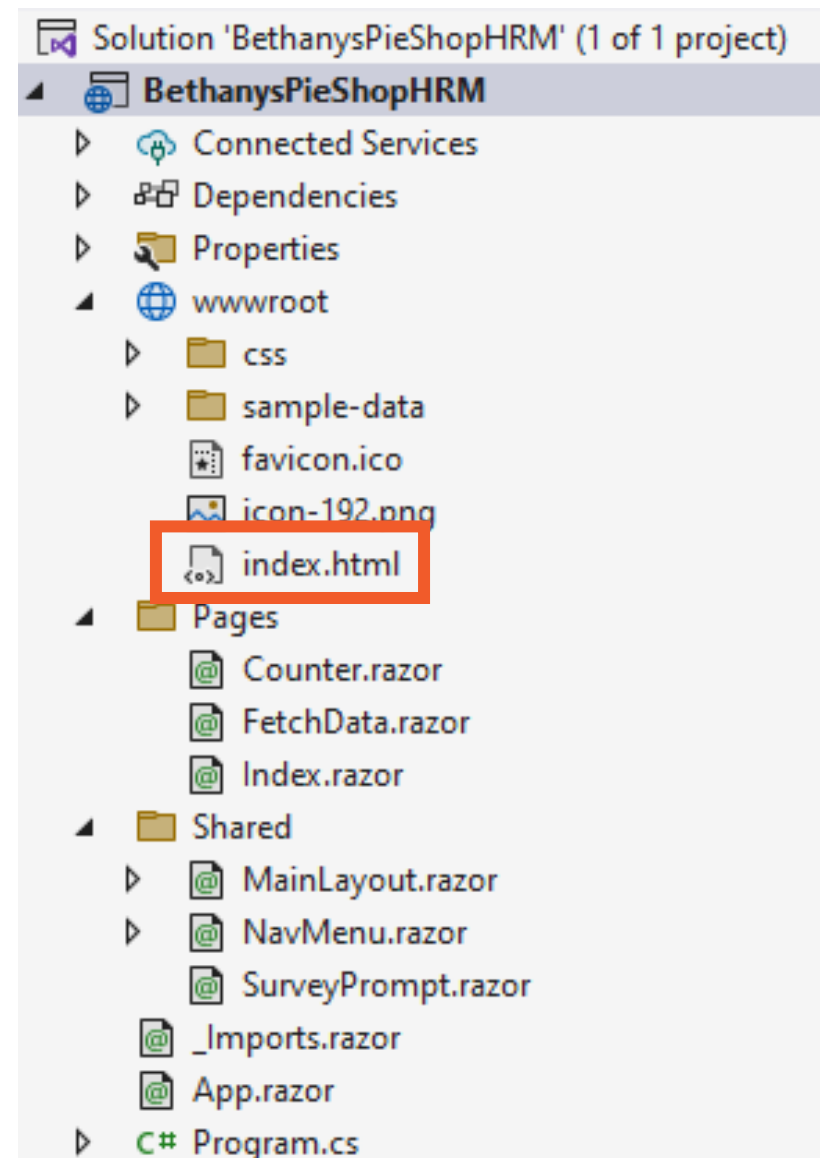
```
}
```



```
@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>
```

```
<p>Current count: @currentCount</p>
```

```
<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

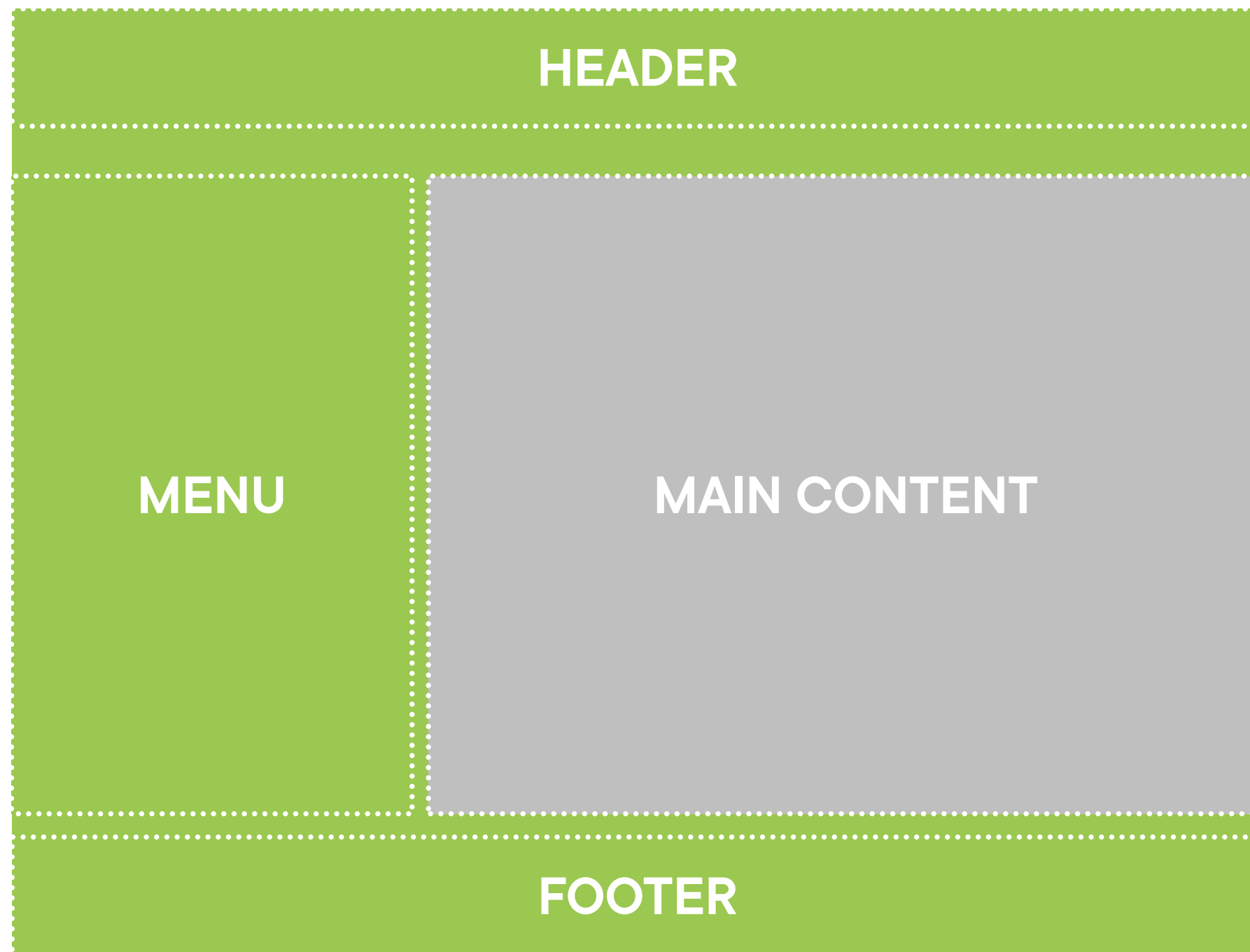
Demo



Creating the first page of our application

Improving the Layout

Sharing a Layout



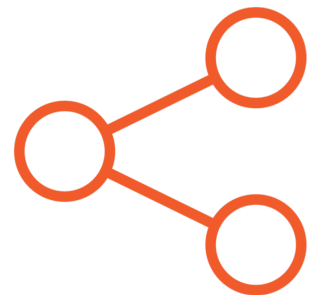
Adding a Layout



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

```
<Router AppAssembly="@typeof(App).Assembly">
  <Found Context="routeData">
    <RouteView RouteData="@routeData" DefaultLayout="@typeof(MainLayout)" />
    <FocusOnNavigate RouteData="@routeData" Selector="h1" />
  </Found>
  ...
</Router>
```

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