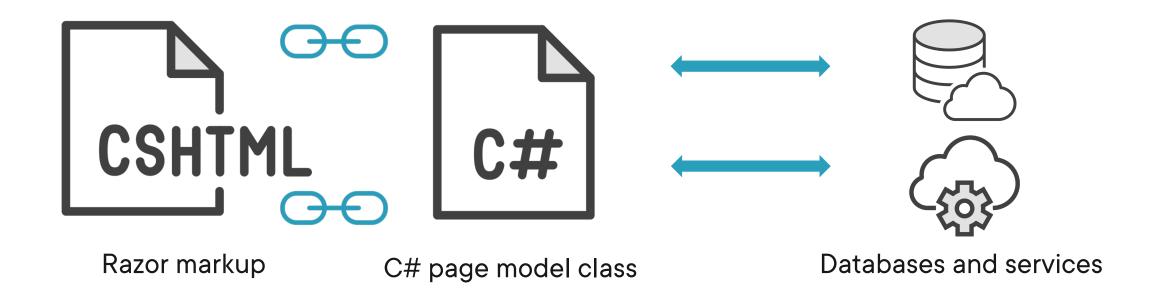
Exploring Pages, Layouts and Routing



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One Razor Page – Two Files



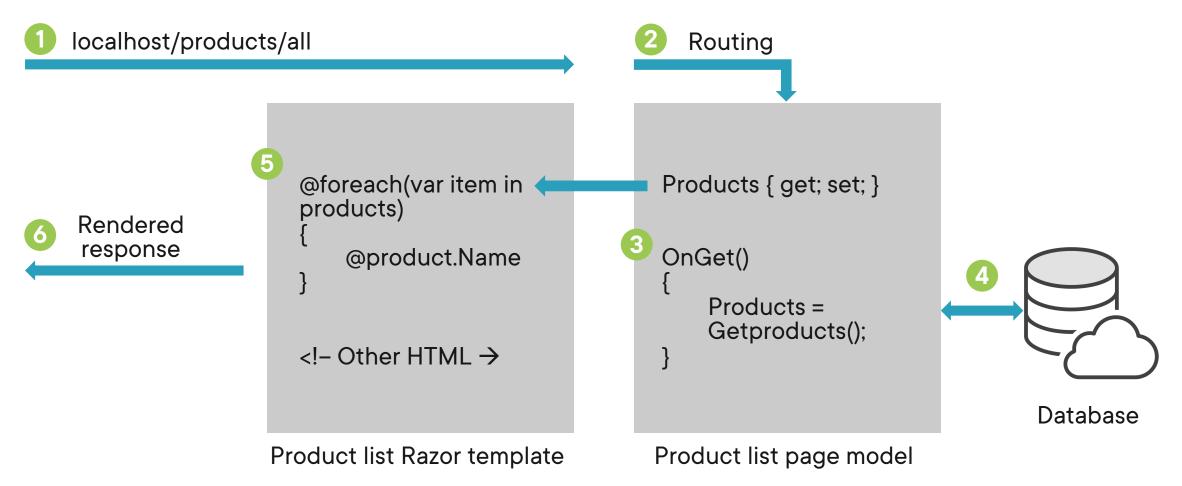
The Anatomy of Razor Page Files

Index.cshtml

Index.cshtml.cs

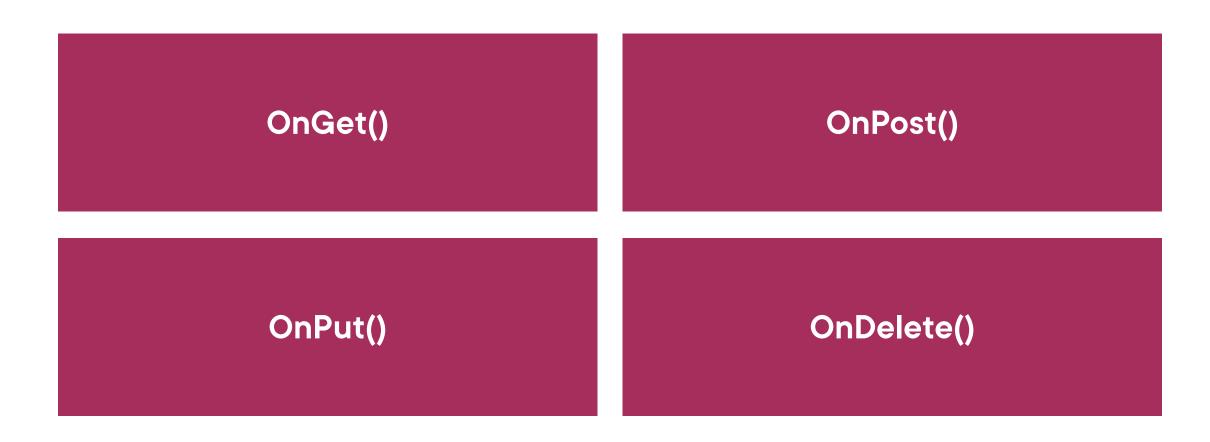
```
public class IndexPageModel : PageModel
{
    // Page Model logic
}
```

Razor Pages Workflow In-depth





Razor Pages Handler Methods





Understanding One Way Data Binding





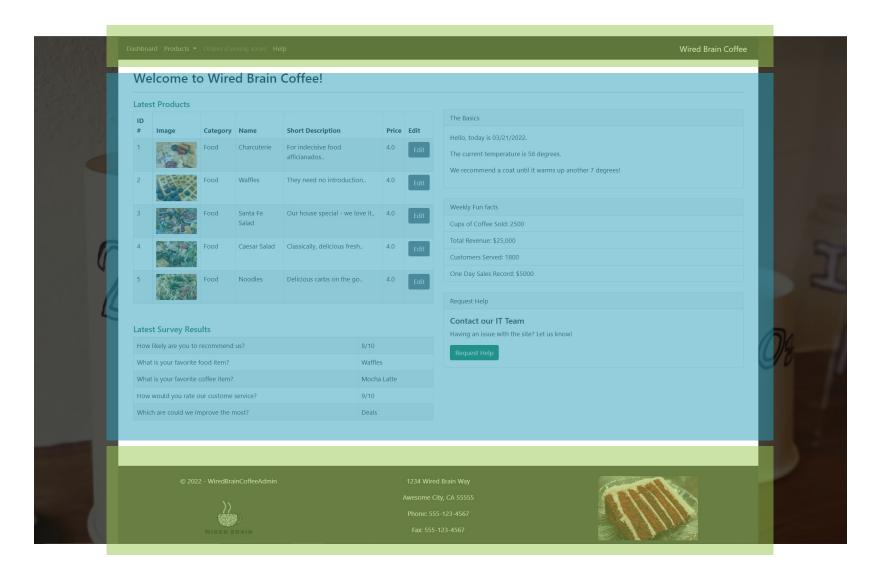
Working with requests and data binding



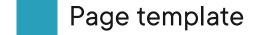
Working with Layouts



Defining Application Structure with Layouts









```
<html>
    <head>
        <link rel="site.css" />
        <link rel="bootstrap.css" />
    </head>
    <body>
        <nav>
             <!-- Nav items -->
        </nav>
        <div>
             @RenderBody()
        </div>
        <footer>
             <!-- Footer columns -->
        </footer>
    <script src="site.js">
    <script src="jquery.js">
    </body>
</html>
```

■ Global style resources

■ Structural site markup (navigation, footer)

■ Inject generated Razor Pages markup

■ Global script resources

Associating Layouts with Razor Pages

The ViewStart file

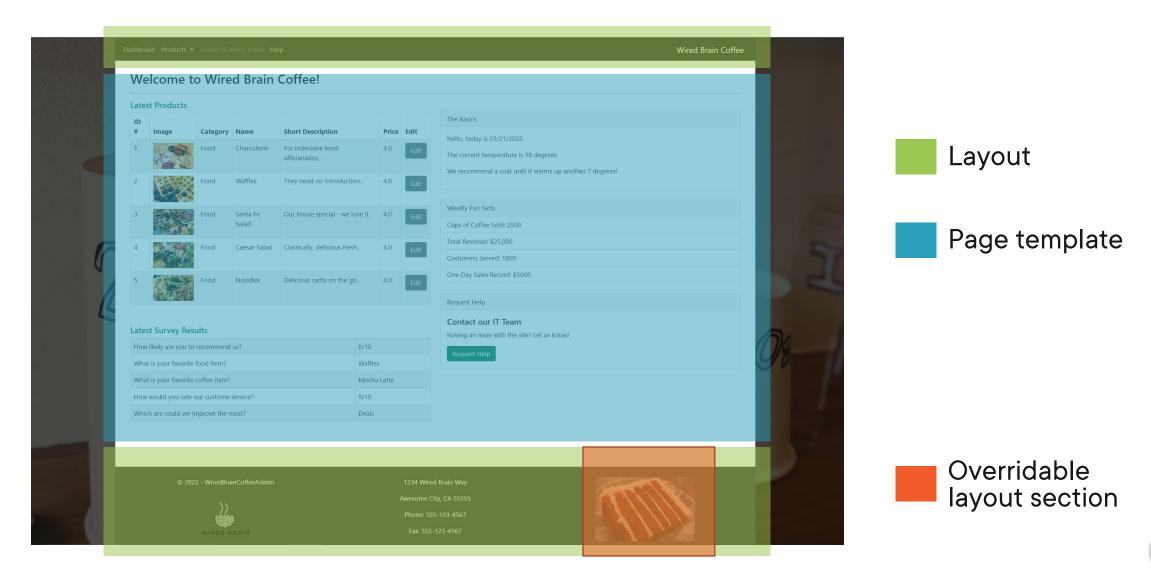
Defines a default layout for all pages on the site

The layout property

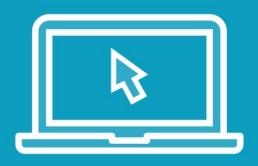
Allows specific Razor Pages to choose their own layout



Defining Application Structure with Layouts







Exploring and configuring layouts





Working with layout sections



Understanding Routing

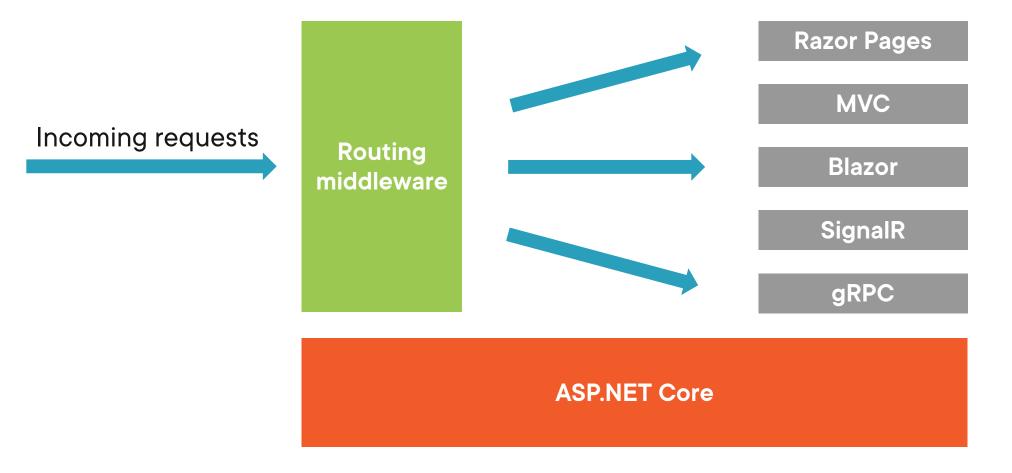


Routing

Matches an incoming HTTP request to a Razor Page using middleware

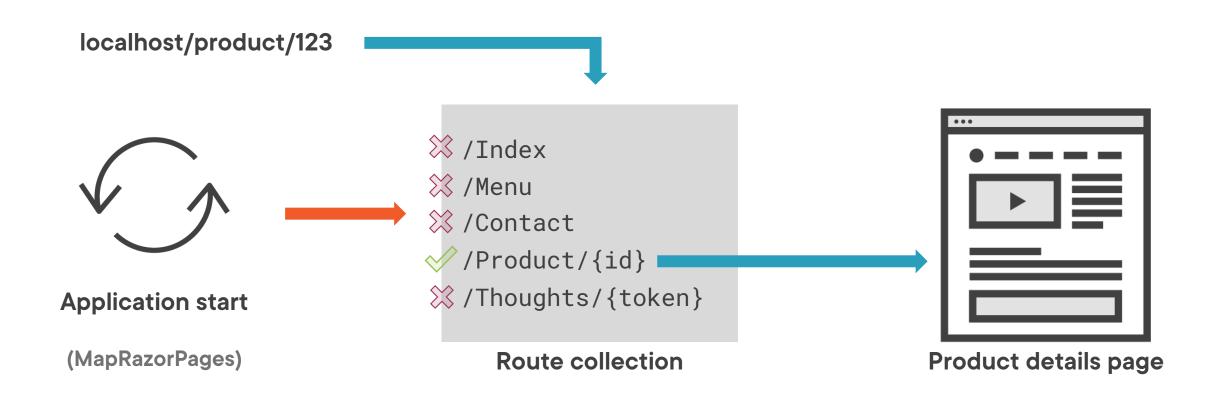


Routing and ASP.NET Core



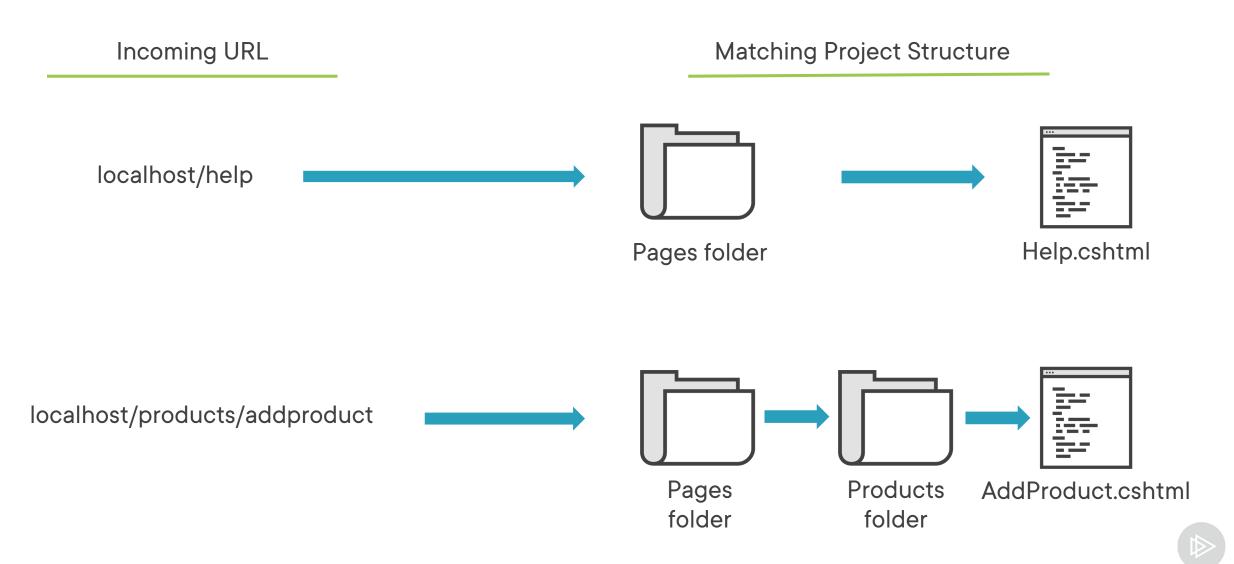


Internal Routing Concepts





Route Mapping Conventions



Custom Route Templates

Contact.cshtml

Products/AddProduct.cshtml

```
@page "/product/edit/{id:int}"
<!-- Template markup -->
```

Configuring Route Template Parameters

Define route parameters by wrapping the parameter name in curly braces

Constraints can be applied to enforce valid data types for that parameter

Tag Helpers and Routing

Anchor tag helper

page with

custom route

EditProduct

Rendered HTML <a asp-page="EditProduct" asp-route-id="@Item.Id">Edit



/products/edit/{id}







Improving URLs using routing





Configuring route parameters



Summary



Razor Pages consist of a Razor markup template and a C# page model class to manage data

Data binding allows Razor to access and display properties on the page model

Page models provide built-in handler methods for common HTTP requests, such as OnGet

Layouts provide structure and consistent styling across a Razor Pages application

Layout sections are areas of content that can be overridden by individual Razor Pages

Routing matches an incoming URL to a specific Razor Page using middleware

The routing system can define custom URL paths and parameters for individual pages

