Overview

Updating the list view with partial views

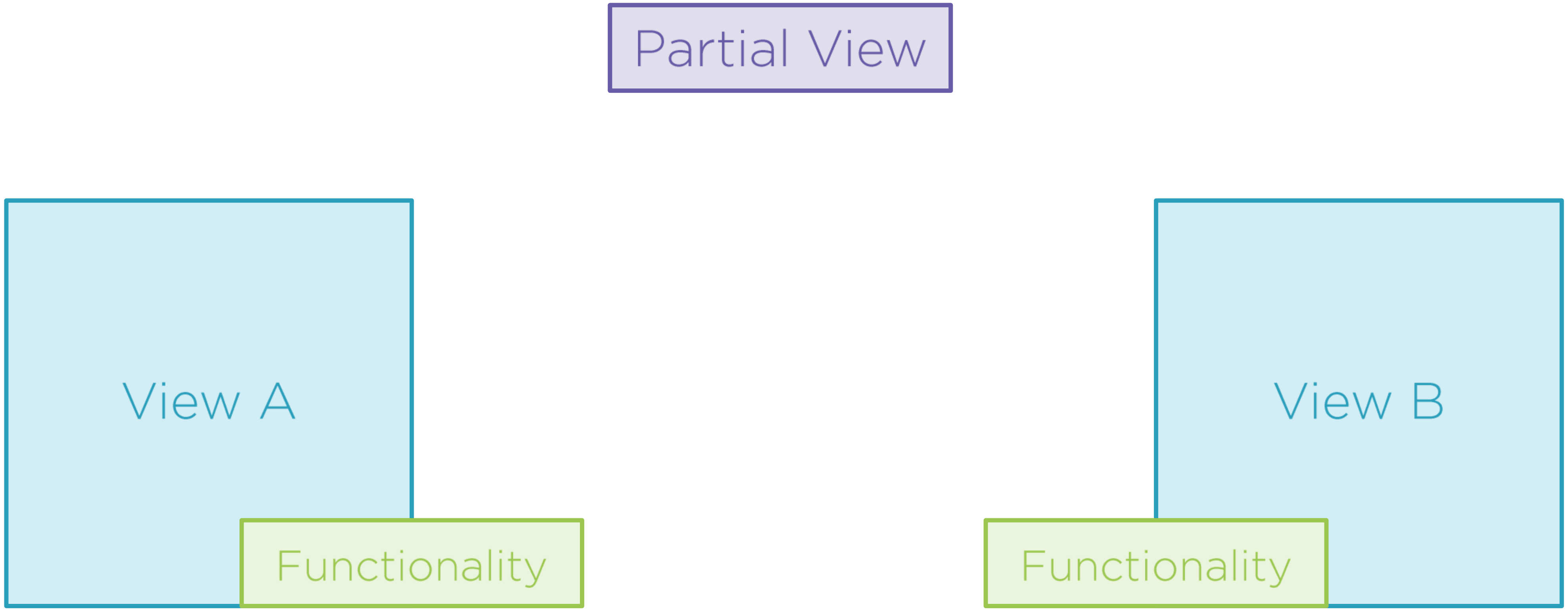
Creating the shopping cart

View components

Creating a custom tag helper

Updating the List View with Partial Views

Partial Views



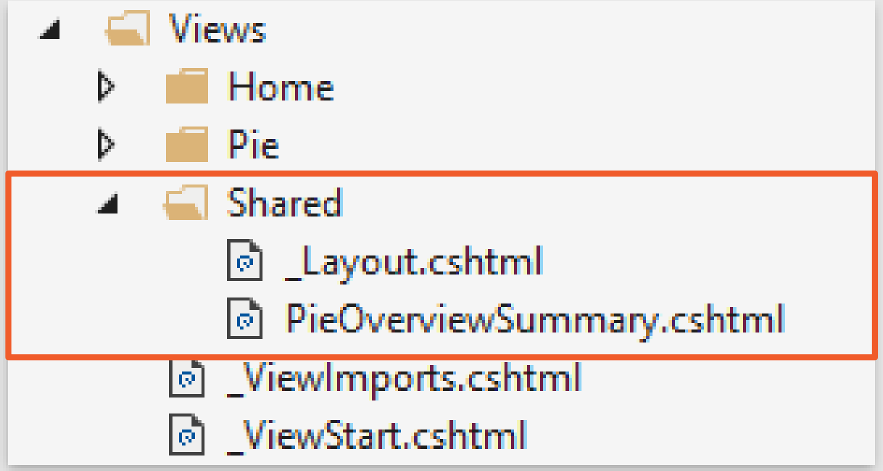
Creating a Partial View

```
@model Pie
<div>
    <div class="thumbnail">
        <img src="@Model.ImageThumbnailUrl" alt="">
        <div class="caption">
            <h3 class="pull-right">@Model.Price.ToString("c")</h3>
            <p>@Model.ShortDescription</p>
        </div>
    </div>
</div>
```

```
@foreach (var pie in Model.Pies)
{
    @Html.Partial("PieOverviewSummary", pie)
}
```

Using the Partial View

Partial Views Folder Location



Demo

Creating a partial view

Using the partial view

Creating the Shopping Cart

Shopping Cart

Model

Controller

View

“ShoppingCart”

Working with Sessions

```
{
  "dependencies": {
    "Microsoft.NETCore.App": {
      "version": "1.0.1",
      "type": "platform"
    },
    "Microsoft.AspNetCore.Diagnostics": "1.0.0",
    ...
    "Microsoft.AspNetCore.Session": "1.0.0",
    "Microsoft.Extensions.Caching.Memory": "1.0.0"
}
```

Working with Sessions

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddMemoryCache();

    services.AddSession();
}

public void Configure(IApplicationBuilder app, IHostingEnvironment env,
  ILoggerFactory loggerFactory)
{
    app.UseSession();
}
```

Demo

Creating the model

Creating the shopping cart

Enabling session management

Performing a database migration

Adding the shopping cart view

View Components

```
@model Pie
<div>
  <div class="thumbnail">
    <img src="@Model.ImageThumbnailUrl" alt="">
    <div class="caption">
      <h3 class="pull-right">@Model.Price.ToString("c")</h3>
      <p>@Model.ShortDescription</p>
```

Partial View Limitations

View Components

Partial content

Can have logic and parameters

Follows SOC pattern

Always linked to parent view

Options to Create a View Component

Derive from base ViewComponent class

[ViewComponent]

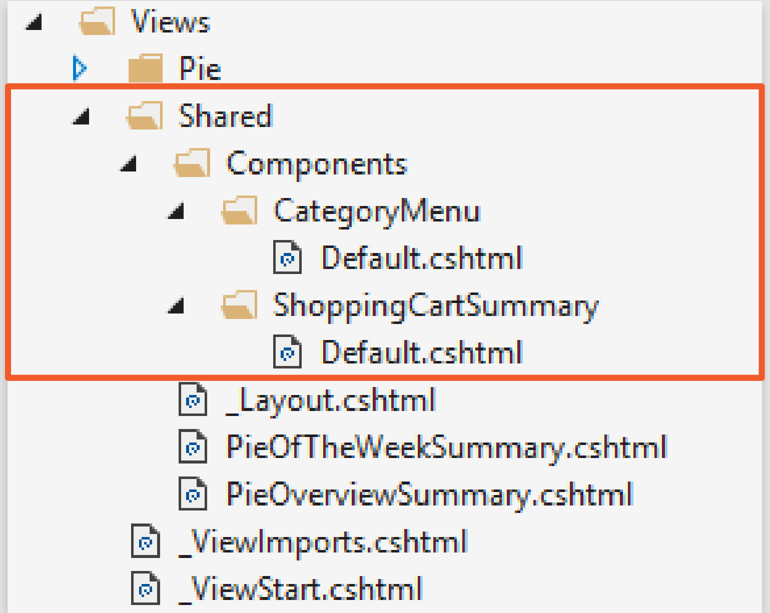
Class that ends in ViewComponent

Creating a View Component

```
public class ShoppingCartSummary : ViewComponent
{
    public IViewComponentResult Invoke()
    {
        return View(model);
    }

}
```

View Components Folder Location



```
Views
  Pie
  Shared
    Components
      CategoryMenu
        Default.cshtml
      ShoppingCartSummary
        Default.cshtml
    _Layout.cshtml
    PieOfTheWeekSummary.cshtml
    PieOverviewSummary.cshtml
  _ViewImports.cshtml
  _ViewStart.cshtml
```

```
@await Component.InvokeAsync("ShoppingCartSummary")
```

Using the View Component

Demo

Looking at the Home page

Creating a view component

Adding the view component to the layout

Creating a Custom Tag Helper

Tag Helpers enable server-side C# code to participate in creating and rendering HTML elements in Razor files.

Tag Helpers

Similar to HTML Helpers…

HTML Helpers

```
@Html.ActionLink("Edit pie", "Edit", new { id=pie.Id })

@Html.DisplayFor(pie => pie.Price)
```

Tag Helpers

Similar to HTML Helpers…

HTML-friendly

Using a Tag Helper

```
<email address="info@@bethanyspieshop.com"
  content="Contact us"></email>
```

Tag Helpers

Similar to HTML Helpers…

HTML-friendly

IntelliSense support

Built-in or custom

Creating a Tag Helper

```
public class EmailTagHelper: TagHelper
{

    public override void Process(
      TagHelperContext context, TagHelperOutput output)

    {
      ...

    }

}
```

Registering Your Tag Helpers

```
@using BethanysPieShop.Models
@using BethanysPieShop.ViewModels
@addTagHelper BethanysPieShop.TagHelpers.*, BethanysPieShop
@addTagHelper *, Microsoft.AspNetCore.Mvc.TagHelpers
```

```
<email address="info@@bethanyspieshop.com" content="Contact
us"></email>
```

Using the Tag Helper

Demo

Creating the Contact page

Creating a tag helper

Adding the tag helper to the About page

Summary

Partial views promote reuse of view code

Shopping cart using session and EFCore

View Components can be considered an upgrade of partial views

Tag Helpers help us in creation of better-looking HTML