

Designing More Pages



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Overview



Updating the list view with partial views

Creating the shopping cart

View components

Creating a custom tag helper

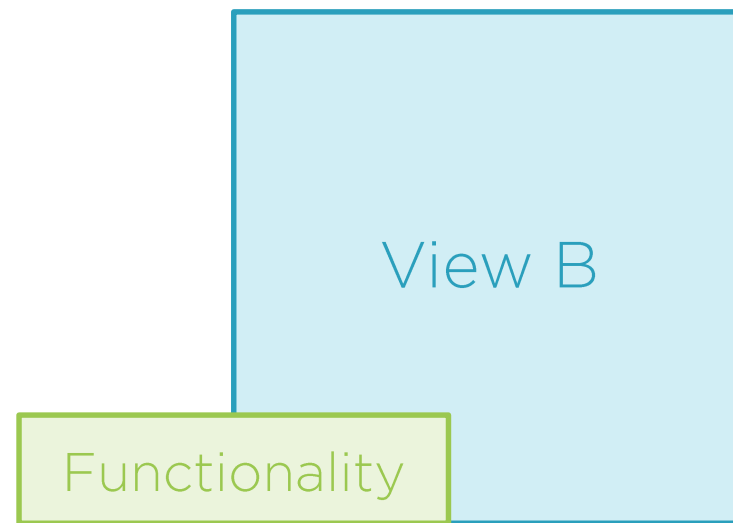
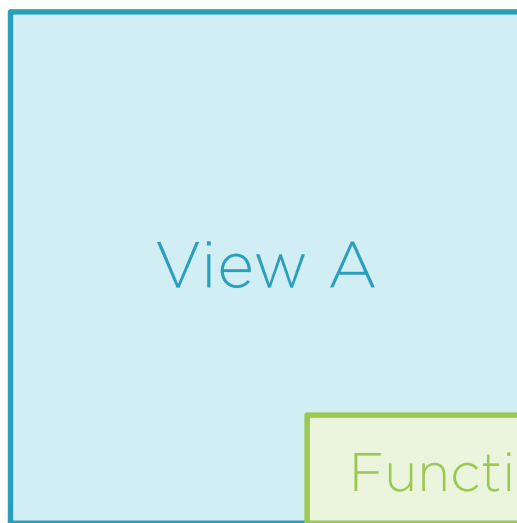


Updating the List View with Partial Views



Partial Views

Partial View



Creating a Partial View

@model Pie

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

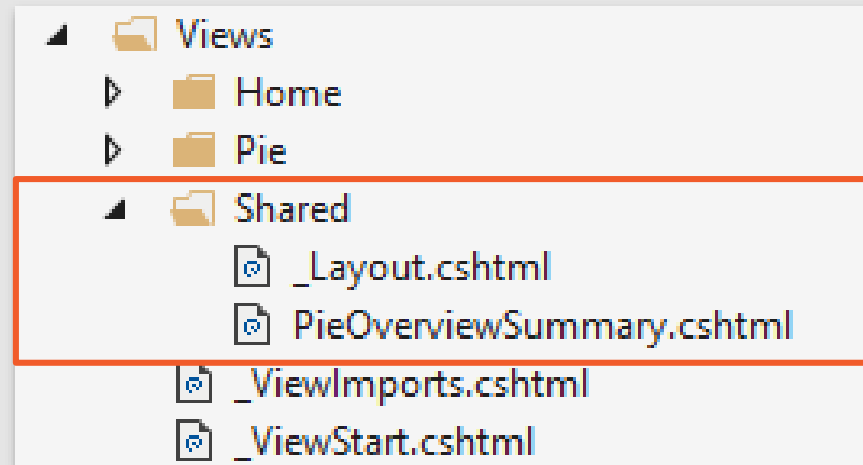


```
@foreach (var pie in Model.Pies)
{
    @Html.Partial("PieOverviewSummary", pie)
}
```

Using the Partial View



Partial Views Folder Location



Demo



Creating a partial view

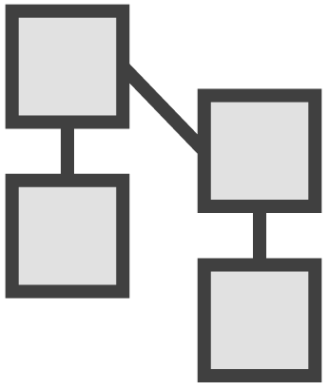
Using the partial view



Creating the Shopping Cart



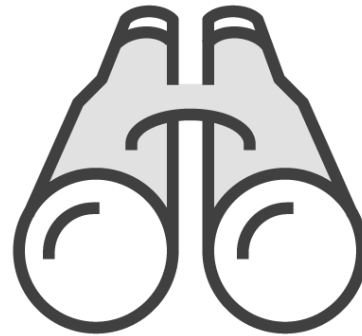
Shopping Cart



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">

<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

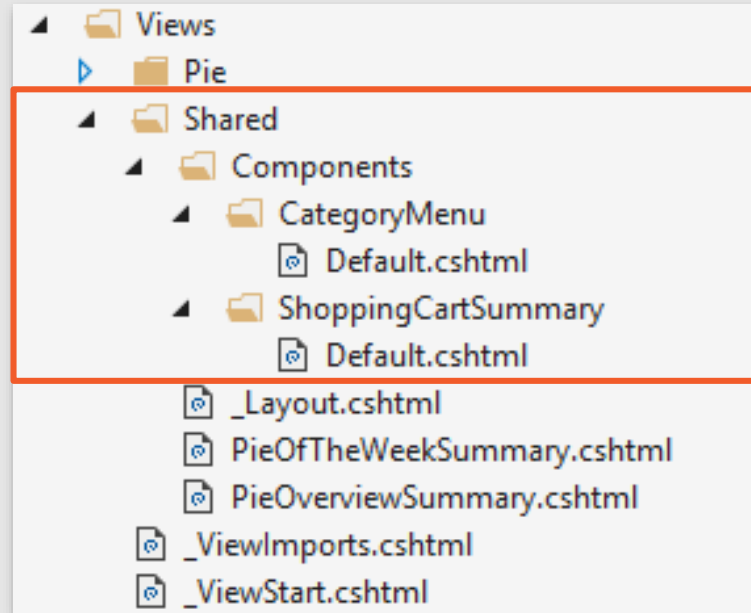


Creating a View Component

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



View Components Folder Location



```
@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

