Improving the Views in the Application



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Overview



Using partial views

Creating the shopping cart

Working with view components

Creating a custom tag helper



Using Partial Views



Partial Views

Partial View





A Sample Partial View

Name typically start with _

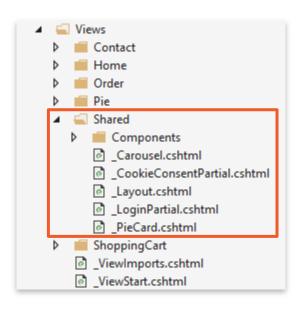


```
@foreach (var pie in Model.Pies)
{
    <partial name="_PieCard" model="pie"/>
}
```

Using the Partial View



Partial Views Folder Location





Demo



Creating a partial view
Using the partial view



Demo



Adding the home page



Creating the Shopping Cart





Shopping Cart

- Session-based ID for the cart
- Session ID is stored using a cookie



Using the Session Object in MVC

```
public void ConfigureServices(IServiceCollection services)
    services.AddHttpContextAccessor();
    services.AddSession();
public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
    app.UseSession();
```



Demo



Creating the model
Creating the shopping cart
Enabling session management
Performing a database migration
Adding the shopping cart view

Navigation updates



View Components



Partial View Limitations



View Components

Partial content

Logic and view

Support for dependency injection

Always linked to parent view





View Component usage

- Login panel
- Dynamic navigation
- Shopping cart

- ...

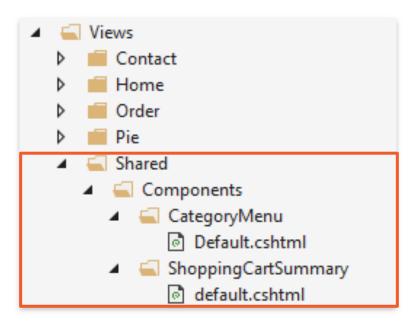


Creating a View Component

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



View Components Default Location





@await Component.InvokeAsync("ShoppingCartSummary")

Using the View Component



Demo



Creating a navigation view component

Creating a shopping cart view

component



Creating a Custom Tag Helper



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



Creating a Tag Helper

```
public class EmailTagHelper: TagHelper
{
    public override void Process(
        TagHelperContext context, TagHelperOutput output)
    {
        ...
}
```



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

Using the Tag Helper



Registering Your Tag Helpers

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



Demo



Creating the contact page

Creating a tag helper

Adding the tag helper to the contact 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

Custom tag helpers wrap common functionality





Up next:Creating a Form

