Build an ASP.NET Core Service, and App with Core 2.2 Two-Day Hand-On Lab

Lab 14

This lab is the fourth in a series that creates the ASP.NET Core web application. This lab walks you through creating a View Component and cleans up some miscellaneous partial views. Prior to starting this lab, you must have completed Lab 13.

Part 1: Create the View Component Server-Side Code

- 1) Create a new folder in the MVC project named ViewComponents and add a new class named Menu.cs.
- 2) Add the following using statements:

```
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.ViewComponents;
using SpyStore.Hol.Mvc.Support;
```

3) Make the class public, inherit from ViewComponent, and add the InvokeAsync method:

```
public class Menu : ViewComponent
{
   public async Task<IViewComponentResult> InvokeAsync() { }
}
```

4) Add a constructor that takes an instance of the SpyStoreServiceWrapper and a private variable to hold the instance.

```
private readonly SpyStoreServiceWrapper _serviceWrapper;
public Menu(SpyStoreServiceWrapper serviceWrapper)
{
   _serviceWrapper = serviceWrapper;
}
```

5) Implement the InvokeAsync method. This method uses the SpyStoreServiceWrapper instance to get the list of Categories. If the call is successful, then the methods returns the MenuView partial View (to be created soon). If the call fails, the method returns a ContentViewComponentResult with an error message:

```
public async Task<IViewComponentResult> InvokeAsync()
{
   var cats = await _serviceWrapper.GetCategoriesAsync();
   if (cats == null)
   {
      return new ContentViewComponentResult("There was an error getting the categories");
   }
   return View("MenuView", cats);
}
```

Part 2: Update the ViewImports

Step 1: Update the _ViewImports.cshtml File

 In order to use the ViewComponent as a Tag Helper, the assembly must be registered in the _ViewImports.cshtml file. Add the following to the end of the file:

```
@addTagHelper *, SpyStore.Hol.MVC
```

Part 3: Create the Partial View

Step 1: Create the MenuView partial view

- 1) Add a new folder named Components under the Views\Shared folder. Add a new folder named Menu under the Components folder. Add a new partial view named MenuView.cshtml in the new folder.
- 2) Update the code to match the following:

Part 3: Update the Main Layout

1) Open the _Layout.cshtml file in Views\Shared folder and add the view component as a tag helper before each of the Privacy menu items:

```
<vc:menu></vc:menu>
  <a class="nav-link" asp-controller="Home" asp-action="Privacy">Privacy</a>
  <vc:menu></vc:menu>
  <a class="nav-link" asp-controller="Home" asp-action="Privacy">Privacy</a>
```

Summary

The lab created the View Component and its view as well as added the view component to the main Layout.

Next steps

In the next part of this tutorial series, you will create a custom tag helper

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