

Build an EF and ASP.NET Core App HOL

Welcome to the Build an Entity Framework Core and ASP.NET Core Application in a Day Hands On Lab. This lab walks you through creating a View Component.

Prior to starting this lab, you must have completed Lab 5.

All labs and files are available at https://github.com/skimedice/dotnetcore_hol.

Part 1: Create the Server Side Code

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

```
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.ViewComponents;
using SpyStore_HOL.DAL.Repos.Interfaces;
```

- 4) Update the code to the following:

```
public class Menu : ViewComponent
{
    private readonly ICategoryRepo _categoryRepo;
    public Menu(ICategoryRepo categoryRepo)
    {
        _categoryRepo = categoryRepo;
    }
    public async Task<IViewComponentResult> InvokeAsync()
    {
        var cats = _categoryRepo.GetAll();
        if (cats == null)
        {
            return new ContentViewComponentResult("There was an error getting the categories");
        }
        return View("MenuView", cats);
    }
}
```

Part 2: Create the Partial View

Step 1: Update the _ViewImports.cshtml File

- 1) Open the _ViewImports.cshtml file under the Views folder.
- 2) Add the following using statements to the file:

```
@using SpyStore_HOL.Models.Entities
@using SpyStore_HOL.Models.ViewModels
```

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@using SpyStore_HOL.Models.ViewModels.Base

3) Add the following to the end of the file:

@addTagHelper *, SpyStore_HOL.MVC

Step 1: Create the MenuView partial view

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

```
@model IEnumerable<Category>
<li><a asp-controller="Products" asp-action="Featured">Featured</a></li>
@foreach (var item in Model)
{
    <li><a asp-controller="Products"
        asp-action="ProductList"
        asp-route-id="@item.Id">@item.CategoryName</a></li>
}
```

Part 3: Add the LoginView partial view

The Login partial view leverages tag helpers, covered later.

- 1) Create a new partial view named LoginView.cshtml.
- 2) Add the following to the partial view:

```
<ul class="nav navbar-nav">
    <li><a asp-controller="Cart" asp-action="Index" asp-route-customerId="@ViewBag.CustomerId" title="Shopping
Cart"><span class="glyphicon glyphicon-shopping-cart"></span> Cart</a></li>
    <li><a asp-controller="Orders" asp-action="Index" asp-route-customerId="@ViewBag.CustomerId" title="Order
History"><span class="glyphicon glyphicon-tag"></span> Orders</a></li>
    <li>
        <a href="#" class="dropdown-toggle" data-toggle="dropdown"><span class="glyphicon glyphicon-search"></span>
SEARCH</a>
        <div class="dropdown-menu search-dropdown-menu">
            <form asp-controller="Products" asp-action="Search" class="navbar-form navbar-left" role="search">
                <div class="input-group">
                    <label class="sr-only" for="searchString">Search</label>
                    <input type="text" id="searchString" name="searchString" class="form-control" placeholder="SEARCH">
                    <span class="input-group-btn">
                        <button class="btn btn-default" type="submit"><span class="glyphicon glyphicon-
search"></span></button>
                    </span>
                </div>
            </form>
        </div>
    </li>
</ul>
```

Part 4: Update the Main Layout

1) Open the _Layout.cshtml file in Views\Shared

2) Change the controller for the home link to Products from Home as follows:

```
<a asp-area="" asp-controller="Products" asp-action="Index" class="navbar-brand">SpyStore_HOL</a>
```

3) Replace the menu items with the following:

```
<vc:menu></vc:menu>
```

4) Add the call to render the LoginView partial view to the menu div, as follows:

```
<div class="navbar-collapse collapse">  
  <ul class="nav navbar-nav">  
    <vc:menu></vc:menu>  
  </ul>  
  @Html.Partial("LoginView")  
</div>
```

Summary

The lab created the View Component and its view as well as added the LoginPartial view.

Next steps

In the next part of this tutorial series, you will create the ViewModels and the Controllers.