

# 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 and cleans up some miscellaneous partial views.

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

All labs and files are available at [https://github.com/skimedico/dotnetcore\\_hol](https://github.com/skimedico/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
```

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```
@using SpyStore_HOL.Models.ViewModels
@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 under the Views\Shared folder.
- 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.