Build an EF and ASP.NET Core 3.0 App HOL

Lab 9

This lab walks you through creating a View Component and for the menu system. Prior to starting this lab, you must have completed Lab 8.

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 MenuViewComponent.cs.
- 2) Add the following using statements:

```
using AutoLot.Dal.Repos.Interfaces;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.ViewComponents;
```

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

```
public class Menu : ViewComponent
{
   public ViewComponentResult Invoke()
   {
    }
}
```

4) Add a constructor that takes an instance of the IMakeRepo and a private variable to hold the instance. This will be added into the class by the DI container:

```
private readonly IMakeRepo _makeRepo;
public Menu(IMakeRepo makeRepo)
{
   _makeRepo = makeRepo;
}
```

5) Implement the Invoke method. This method uses the IMakeRepo instance to get the list of Makes. 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 IViewComponentResult Invoke ()
{
  var makes = _makeRepo.GetAll();
  if (makes == null)
  {
    return new ContentViewComponentResult("There was an error getting the makes");
  }
  return View("MenuView", makes);
}
```

Part 2: Update the ViewImports Partial View

Step 1: Check 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:
 Note: This was done in a previous lab

```
@addTagHelper *, AutoLot.Web
```

Part 3: Create the ViewComponent 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 4: Update the Main Layout

1) Open the _Layout.cshtml file in Views\Shared folder and add the view component as a tag helper in the li for the Inventory drop down:

Summary

The lab created the View Component and its view and added it to the menu.

Next steps

In the next part of this tutorial series, you will add basic support for GDPR.