Build an ASP.NET Core MVC App with EF Core One-Day Hands-On Lab

Lab 13

This walks you through creating and/or updating the Views for the Cars Controller. Prior to starting this lab, you must have completed Lab 12.

Note: Adjust any directory separators to your OS (e.g. \ for Windows, / for Mac/Linux)

Part 1: The RazorSyntax View

• Create a new view named RazorSyntax in the Home and update it to the following:

```
@model Car
@{
    ViewData["Title"] = "Razor Syntax";
}
<h1>Razor Syntax</h1>
@for (int i = 0; i < 15; i++)
  //do something
}
@{
    //Code Block
   var foo = "Foo";
   var bar = "Bar";
    var htmlString = "onetwo";
@foo<br />
@htmlString<br />
@foo.@bar<br />
@foo.ToUpper()<br/>
@Html.Raw(htmlString)
<hr />
@{
    @:Straight Text
    <div>Value:@Model.Id</div>
    <text>
        Lines without HTML tag
    </text>
    <br />
}
<hr/>
    Multiline Comments
*@
```

```
Email Address Handling:<br/>
foo@foo.com = foo@foo.com<br/>
@@foo<br/>
test@foo = test@foo<br/>
test@(foo) = testFoo<br/>
<hr/>
@functions {
    public static IList<string> SortList(IList<string> strings) {
       var list = from s in strings orderby s select s;
       return list.ToList();
   }
}
               -----
@{
   var myList = new List<string> {"C", "A", "Z", "F"};
   var sortedList = SortList(myList); //MyFunctions.SortList(myList)
}
@foreach (string s in sortedList)
{
   @s@: 
}
<hr/>
@{
   Func<dynamic, object> b = @<strong>@item</strong>;
This will be bold: @b("Foo")
@Html.DisplayForModel()
@Html.DisplayForModel("CarWithColors")
<hr/>
@Html.EditorForModel()
<a asp-controller="Cars" asp-action="Details" asp-route-id="@Model.Id">@Model.PetName</a>
   • Update the _Menu.cshtml partial view to include a menu item for the new view:
<a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="RazorSyntax">Razor
Syntax <i class="fas fa-cut"></i></a>
Add a new action method named RazorSyntax in the HomeController:
public IActionResult RazorSyntax([FromServices] ICarRepo carRepo)
 var car = carRepo.Find(1);
  return View(car);
}
```

Part 2: Update the Index View

• Update the Home/Index.cshtml view to use the DealerInfo passed in from the action method. Update the view to the following:

```
@model AutoLot.Services.ViewModels.DealerInfo
@{
    ViewData["Title"] = "Home Page";
}

<div class="text-center">
    <h1 class="display-4">Welcome to @Model.DealerName</h1>
    Located in @Model.City, @Model.State
</div>
```

Part 3: The Car Views

Step 1: The Partial and Template Views

- Create a new folder named Cars under the Views folder. In this folder, create three new folders, DisplayTemplates, EditorTemplates, and Partials.
- Add a new view named Car.cshtml under the View\Cars\DisplayTemplates folder. Update the markup to the following:

```
@model AutoLot.Models.Entities.Car
<dl class="row">
    <dt class="col-sm-2">
        @Html.DisplayNameFor(model => model.MakeId)
    <dd class="col-sm-10">
        @Html.DisplayFor(model => model.MakeNavigation.Name)
    </dd>
    <dt class="col-sm-2">
        @Html.DisplayNameFor(model => model.Color)
    </dt>
    <dd class="col-sm-10">
        @Html.DisplayFor(model => model.Color)
    </dd>
    <dt class="col-sm-2">
        @Html.DisplayNameFor(model => model.PetName)
    </dt>
    <dd class="col-sm-10">
        @Html.DisplayFor(model => model.PetName)
    </dd>
</dl>
```

• Add a new view named CarWithColors.cshtml under the View\Cars\DisplayTemplates folder. Update the markup to the following:

```
@model Car
<hr />
<div>
  <dl class="row">
    <dt class="col-sm-2">
      @Html.DisplayNameFor(model => model.PetName)
    </dt>
    <dd class="col-sm-10">
      @Html.DisplayFor(model => model.PetName)
    </dd>
    <dt class="col-sm-2">
      @Html.DisplayNameFor(model => model.MakeNavigation)
    </dt>
    <dd class="col-sm-10">
      @Html.DisplayFor(model => model.MakeNavigation.Name)
    </dd>
    <dt class="col-sm-2">
      @Html.DisplayNameFor(model => model.Color)
    </dt>
    <dd class="col-sm-10" style="color:@Model.Color">
      @Html.DisplayFor(model => model.Color)
    </dd>
  </dl>
</div>
```

• Add a new view named Car.cshtml under the View\Cars\EditorTemplates folder. Update the markup to the following:

```
@model Car
<div asp-validation-summary="All" class="text-danger"></div>
    <label asp-for="PetName" class="col-form-label"></label>
    <input asp-for="PetName" class="form-control"/>
    <span asp-validation-for="PetName" class="text-danger"></span>
</div>
<div >
    <label asp-for="MakeId" class="col-form-label"></label>
    <select asp-for="MakeId" class="form-control" asp-items="ViewBag.LookupValues"></select>
    <span asp-validation-for="MakeId" class="text-danger"></span>
</div>
<div >
    <label asp-for="Color" class="col-form-label"></label>
    <input asp-for="Color" class="form-control"/>
    <span asp-validation-for="Color" class="text-danger"></span>
</div>
```

• Add a new view named _CarListPartial.cshtml under the View\Cars\Partials folder. Update the markup to the following:

```
@model IEnumerable<Car>
@{
 var showMake = true;
 if (bool.TryParse(ViewBag.ByMake?.ToString(), out bool byMake)) { showMake = !byMake; }
}
>
 <item-create></item-create>
<thead>
   @if (showMake)
     @Html.DisplayNameFor(model => model.MakeId) 
   }
     @Html.DisplayNameFor(model => model.Color)
     @Html.DisplayNameFor(model => model.PetName)
     </thead>
 @foreach (var item in Model)
   @if (showMake)
     Advantage (modelItem => item.MakeNavigation.Name)
     @Html.DisplayFor(modelItem => item.Color)
     @Html.DisplayFor(modelItem => item.PetName)
      <item-edit item-id="@item.Id"></item-edit> |
      <item-details item-id="@item.Id"></item-details> |
      <item-delete item-id="@item.Id"></item-delete>
     }
```

Step 2: Create the Index and ByMake views

• Add a new view named Index.cshtml to the Views\Cars folder and update the markup to the following:

```
@model IEnumerable<Car>
@{
    ViewData["Title"] = "Index";
}
<h1>Vehicle Inventory</h1>
<partial name="Partials/_CarListPartial" model="@Model"/>
```

• Add a new view named ByMake.cshtml to the Views\Cars folder and update the markup to the following:

```
@model IEnumerable<Car>
@{
     ViewData["Title"] = "Index";
}
<h1>Vehicle Inventory for @ViewBag.MakeName</h1>
@{
     var mode = new ViewDataDictionary(ViewData) {{"ByMake", true}};
}
cpartial name="Partials/_CarListPartial" model="Model" view-data="@mode"/>
```

Step 3: Create the Details view

• Add a new view named Details.cshtml to the Views\Cars folder and update the markup to the following:

```
@model Car
@{
    ViewData["Title"] = "Details";
}
<h1>Details for @Model.PetName</h1>
@Html.DisplayForModel()
@*@Html.DisplayForModel("CarWithColors")*@
<div>
    <item-edit item-id="@Model.Id"></item-edit>
    <item-delete item-id="@Model.Id"></item-delete>
    <item-list></item-list>
</div>
```

Step 4: Create the Create view

• Add a new view named Create.cshtml to the Views\Cars folder and update the markup to the following:

```
@model Car
@{ ViewData["Title"] = "Create"; }
<h1>Create a New Car</h1>
<form asp-controller="Cars" asp-action="Create">
<div class="row">
  <div class="col-md-4">
    <div asp-validation-summary="ModelOnly" class="text-danger"></div>
       @Html.EditorForModel()
    </div>
  </div>
  <div class="d-flex flex-row mt-3">
    <button type="submit" class="btn btn-success">Create <i class="fas fa-
plus"></i></button>&nbsp;&nbsp; &nbsp;&nbsp;
    <item-list></item-list>
  </div>
</form>
@section Scripts {
    <partial name="_ValidationScriptsPartial" />
}
```

Step 5: Create the Edit view

• Add a new view named Edit.cshtml to the Views\Cars folder and update the markup to the following:

```
@model Car
@{ ViewData["Title"] = "Edit"; }
<h1>Edit @Model.PetName</h1>
<form asp-area="" asp-controller="Cars" asp-action="Edit" asp-route-id="@Model.Id">
  <div class="row">
    <div class="col-md-4">@Html.EditorForModel()</div>
  <div class="d-flex flex-row mt-3">
     <input type="hidden" asp-for="Id" />
     <input type="hidden" asp-for="TimeStamp" />
     <button type="submit" class="btn btn-primary">Save <i class="fas fa-</pre>
save"></i></button>&nbsp;&nbsp; &nbsp;&nbsp;
     <item-list></item-list>
  </div>
</form>
@section Scripts {
    <partial name="_ValidationScriptsPartial" />
}
```

Step 6: Create the Delete view

• Add a new view named Delete.cshtml to the Views\Cars folder and update the markup to the following:

Summary

The lab created the views for the CarsController.

Next Steps

The next lab creates an admin area for Make maintenance.