

# Build an ASP.NET Core MVC App with EF Core

## One-Day Hands-On Lab

### Lab 14

This walks you through creating an area for Make maintenance. Prior to starting this lab, you must have completed Lab 13.

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

### Part 1: Create the Area and MakesController

- Create a new folder named Areas in the AutoLot.Mvc project. Right click the folder and select Add -> Area. Select MVC Area, and name it Admin. Delete the Data and Models folders from the scaffolded area. Delete the ScaffoldingReadMe.txt, as we are using attribute routing.
- Add a new controller named MakesController and update the code to the following:

```
namespace AutoLot.Mvc.Areas.Admin.Controllers;
```

```
[Area("Admin")]
[Route("Admin/{controller}/{action}")]
public class MakesController : BaseCrudController<Make, MakesController>
{
    public MakesController(IAppLogging<MakesController> appLogging, IMakeRepo baseRepo) :
base(appLogging, baseRepo)
    {
    }

    protected override SelectList GetLookupValues()
    {
        return null;
    }

    // GET: Admin/Makes
    [Route("/Admin")]
    [Route("/Admin/{controller}")]
    [Route("/Admin/{controller}/{action}")]
    public override IActionResult Index()
    {
        return base.Index();
    }
}
```

## Part 2: Create or Move the `_ViewImports` and `_ViewStart` Partial

- Either copy the `_ViewImports.cshtml` and `_ViewStart.cshtml` files into the `Areas\Admin\Views` folder or move them to the project root.

## Part 3: The Make Views

### Step 1: Create the Index view

- Add a new view named `Index.cshtml` to the `Areas\Admin\Views\Makes` folder and update the markup to the following:

```
@model IEnumerable<Make>

@{ ViewData["Title"] = "Index"; }

<h1>Index</h1>
<p>
    <a asp-action="Create">Create New</a>
</p>
<table class="table">
    <thead>
        <tr>
            <th>@Html.DisplayNameFor(model => model.Name) </th>
            <th></th>
        </tr>
    </thead>
    <tbody>
        @foreach (var item in Model) {
            <tr>
                <td>@Html.DisplayFor(modelItem => item.Name) </td>
                <td>
                    <item-edit item-id="@item.Id"></item-edit> |
                    <item-details item-id="@item.Id"></item-details> |
                    <item-delete item-id="@item.Id"></item-delete>
                </td>
            </tr>
        }
    </tbody>
</table>
```

## Page 3 of 5

- ```
@model Make
```

```
@model Make
```

- ```
@{ ViewData["Title"] = "Create"; }
```

```
<h1>Create</h1>  
<h4>Make</h4>  
<br/>  
<form asp-action="Create">  
    <div class="row">  
        <div class="col-md-4">  
            <div asp-validation-summary="ModelOnly" class="text-danger"></div>  
            <label asp-for="Name" class="col-form-label"></label>  
            <input asp-for="Name" class="form-control"/>  
            <span asp-validation-for="Name" class="text-danger"></span>  
        </div>  
    </div>  
    <div class="d-flex flex-row mt-3">  
        <input type="submit" value="Create" class="btn btn-primary"/>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
        <item-list></item-list>  
    </div>  
</form>  
  
@section Scripts {  
    @{ await Html.RenderPartialAsync("_ValidationScriptsPartial"); }  
}
```

## Step 4: Create the Edit view

- Add a new view named `Edit.cshtml` to the `Views\Makes` folder and update the markup to the following:

[illegible]

## Step 5: Create the Delete view

- Add a new view named `Delete.cshtml` to the `Views\Makes` folder and update the markup to the following:

```
@model Make
@{ ViewData["Title"] = "Delete"; }
<h1>Delete</h1>
<h3>Are you sure you want to delete this?</h3>
<div>
    <h4>Make</h4>
    <hr />
    <dl class="row">
        <dt class = "col-sm-2">@Html.DisplayNameFor(model => model.Name) </dt>
        <dd class = "col-sm-10">@Html.DisplayFor(model => model.Name)</dd>
    </dl>
    <form asp-action="Delete">
        <input type="hidden" asp-for="Id" />
        <input type="submit" value="Delete" class="btn btn-danger" /> |
        <item-list></item-list>
    </form>
</div>
```

## Part 4: Update the \_Menu Partial

- Add a new menu item to the \_Menu.cshtml partial for navigation to the Admin Area:

```
<li class="nav-item">
  <a class="nav-link text-dark" asp-area="Admin" asp-controller="Makes" asp-action="Index"
  title="Makes Admin">Makes Admin<i class="fas fa-cog"></i></a>
</li>
```

## Summary

The lab created the area for Make maintenance completed this hands-on lab.

## Next Steps

The next lab will add in custom validation attributes.