

# .NET 10 App Dev Hands-On Lab

## MVC Lab 8 –Areas

This walks you through creating an area for Make maintenance. Before starting this lab, you must have completed Razor Pages/MVC Lab 7a and MVC 7b.

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

## Part 1: Create the Area and MakesController

- Right-click the AutoLot.Mvc project folder and select Add -> new Scaffolded Item. Select MVC Area and name it Admin. Delete the Data and Models folders from the scaffolded area. Delete the ScaffoldingReadMe.txt from the root. Add a new class named MakesController to the Areas\Admin\Controllers folder and update the code to the following:

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

[Area("Admin")]
[Route("Admin/[controller]/[action]")]
public class MakesController(IAppLogging appLogging, IMakeRepo baseRepo)
    : BaseCrudController<Make>(appLogging, baseRepo)
{
    protected override SelectList GetLookupValues() => null;

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

## Part 2: Copy or Move the \_ViewImports and \_ViewStart Partials

- 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

- Create a new folder named `Makes` in the `Areas\Admin\Views` folder. Add a new view named `Index.cshtml` to this 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>
```

## Step 2: Create the Details view

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

```
@model Make
@{
    ViewData["Title"] = "Details";
}
<h1>Details</h1>
<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>
</div>
<div>
    <item-edit item-id="@Model.Id"></item-edit>
    <item-list></item-list>
</div>
```

## Step 3: Create the Create view

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

```
@model Make
@{
    ViewData["Title"] = "Create";
}
<h1>Create</h1>
<h4>Make</h4>
<hr/>
<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"/>&ampnbsp&ampnbsp|&ampnbsp&ampnbsp
        <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:

```
@model Make
 @{
    ViewData["Title"] = "Edit";
}
<h1>Edit</h1>
<h4>Make</h4><hr/>
<form asp-action="Edit">
    <div class="row">
        <div class="col-md-4">
            <div asp-validation-summary="ModelOnly" class="text-danger"></div>
            <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>
            <input type="hidden" asp-for="Id"/>
            <input type="hidden" asp-for="TimeStamp"/>
        </div>
    </div>
    <div class="d-flex flex-row mt-3">
        <input type="submit" value="Save" class="btn btn-primary"/> &nbsp;&nbsp;|&nbsp;&nbsp;
        <item-list></item-list>
    </div>
</form>
@section Scripts {
    @{ await Html.RenderPartialAsync("_ValidationScriptsPartial"); }
}
```

## 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="hidden" asp-for="TimeStamp"/>
        <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 labs will add the data services to abstract away the calls to the repositories.