

.NET App Dev Hands-On Workshop

Lab 14 – MVC Areas

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>
```

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
```

[illegible]

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.