

.NET App Dev Hands-On Lab

Razor Pages Lab 8 –Areas

This walks you through creating an area for Make maintenance. Prior to starting this lab, you must have completed Razor Page Lab 7.

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

Part 1: Create the Area, Templates, and ViewStart/ViewImports

- Create a new folder named Areas in the AutoLot.Web project, in that folder add a new folder named Admin, and in that folder add a new folder named Pages, and in the folder add a new folder named Makes. Under the Makes directory, add a DisplayTemplates directory and an EditorTemplates directory.
- Create a new view named Make.cshtml in the DisplayTemplates directory. Update the markup to the following:

```
@model Make
<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>
```

- Create a new view named Make.cshtml in the EditorTemplates directory. Update the markup to the following:

```
@model Make
<div>
  <label asp-for="Name" class="col-form-label"></label>
  <input asp-for="Name" />
  <span asp-validation-for="Name" class="text-danger"></span>
</div>
```

- Either copy the AutoLot.Web\Pages_ViewImports.cshtml and AutoLot.Web\Pages_ViewStart.cshtml files into the Areas\Admin\Pages folder or move them to the project root.

Part 2: The Makes Pages

Step 1: Create the Index Page

- Add a new Razor Page named Index.cshtml to the Areas\Admin\Pages\Makes folder and update the code behind to the following:

```
namespace AutoLot.Web.Areas.Admin.Pages.Makes;
public class IndexModel(IAppLogging<IndexModel> appLogging, IMakeRepo repo) : PageModel
{
    [ViewData]
    public string Title => "Makes";
    public IEnumerable<Make> MakeRecords { get; set; }
    public void OnGet() => MakeRecords = repo.GetAllIgnoreQueryFilters();
}
```

- Update the markup to the following:

```
@page
@model AutoLot.Web.Areas.Admin.Pages.Makes.IndexModel
<h1>Vehicle Makes</h1>
<p><item-create></item-create></p>
<table class="table">
    <thead>
        <tr>
            <th>@Html.DisplayNameFor(model => ((List<Make>)model.MakeRecords)[0].Name)</th>
            <th></th>
        </tr>
    </thead>
    <tbody>
        @foreach (var item in Model.MakeRecords) {
            <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 Page

- Add a new Razor Page named Details.cshtml to the Areas\Admin\Pages\Makes folder and update the code behind to the following:

```
namespace AutoLot.Web.Areas.Admin.Pages.Makes;
public class DetailsModel(IAppLogging<DetailsModel> appLogging, IMakeRepo makeRepo)
    : BasePageModel<Make, DetailsModel>(appLogging, makeRepo, "Details")
{
    public void OnGet(int? id) => GetOne(id);
}
```

- Update the markup to the following:

```
@page "{id?}"
@model AutoLot.Web.Areas.Admin.Pages.Makes.DetailsModel
<h1>Details for @Model.Entity.Name</h1>
@if (!string.IsNullOrEmpty(Model.Error))
{
    <div class="alert alert-danger" role="alert">@Model.Error</div>
}
else
{
    @Html.DisplayFor(m => m.Entity)
    <div>
        <item-edit item-id="@Model.Entity.Id"></item-edit> |
        <item-delete item-id="@Model.Entity.Id"></item-delete> |
        <item-list></item-list>
    </div>
}
```

Step 3: Create the Create Page

- Add a new Razor Page named Create.cshtml to the Areas\Admin\Pages\Makes folder and update the code behind to the following:

```
namespace AutoLot.Web.Areas.Admin.Pages.Makes;
public class CreateModel(IAppLogging<CreateModel> appLogging, IMakeRepo makeRepo)
    : BasePageModel<Make, CreateModel>(appLogging, makeRepo, "Create")
{
    public void OnGet() => Entity = new Make();
    public IActionResult OnPost() => SaveOne(BaseRepoInstance.Add);
}
```

- Update the markup to the following:

[illegible]

Step 4: Create the Edit Page

- Add a new Razor Page named Edit.cshtml to the Areas\Admin\Pages\Makes folder and update the code behind to the following:

```
namespace AutoLot.Web.Areas.Admin.Pages.Makes;
public class EditModel(IAppLogging<EditModel> appLogging, IMakeRepo repo)
    : BasePageModel<Make, EditModel>(appLogging, repo, "Edit")
{
    public void OnGet(int? id) => GetOne(id);
    public IActionResult OnPost() => SaveOne(BaseRepoInstance.Update);
}
```

- Update the markup to the following:

[illegible]

Step 5: Create the Delete Page

- Add a new Razor Page named `Delete.cshtml` to the `Areas\Admin\Pages\Makes` folder and update the code behind to the following:

```
namespace AutoLot.Web.Areas.Admin.Pages.Makes;
public class DeleteModel(IAppLogging<DeleteModel> appLogging, IMakeRepo repo)
    : BasePageModel<Make, DeleteModel>(appLogging, repo, "Delete")
{
    public void OnGet(int? id) => GetOne(id);
    public IActionResult OnPost(int id) => DeleteOne(id);
}
```

- Update the markup to the following:

```
@page "{id?}"
@model AutoLot.Web.Areas.Admin.Pages.Makes.DeleteModel
<h1>Delete @Model.Entity.Name</h1>
@if (!string.IsNullOrEmpty(Model.Error))
{
    <div class="alert alert-danger" role="alert">@Model.Error</div>
}
else
{
    <h3>Are you sure you want to delete this car?</h3>
    <div>
        @Html.DisplayFor(c=>c.Entity)
        <form asp-page="Delete" asp-route-id="@Model.Entity.Id">
            <input type="hidden" asp-for="Entity.Id"/>
            <input type="hidden" asp-for="Entity.TimeStamp"/>
            <button type="submit" class="btn btn-danger">Delete
                <i class="fas fa-trash"></i></button>&nbsp;&nbsp;&nbsp;|&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
            <item-list></item-list>
        </form>
    </div>
}
```

Part 3: Update the Menu

- Add the following to the `_Menu.cshtml` partial:

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

Summary

This lab created the area for Make maintenance and completed the `AutoLot.Web` application.

Next Steps

The next labs will add the data services to abstract away the calls to the repositories.