.NET App Dev Hands-On Lab

Razor Pages Lab 8 - Areas

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

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, a new folder named Pages, and a new folder named Makes. Under the Makes directory, add a DisplayTemplates directory and an EditorTemplates directory. NOTE: The MVC Area scaffolding doesn't set up Areas for Razor Pages correctly, so you must do these steps by hand.
- Create a new view named Make.cshtml in the DisplayTemplates directory. Update the markup to the following:

• 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>
<item-create></item-create>
<thead>
   @Html.DisplayNameFor(model => ((List<Make>)model.MakeRecords)[0].Name)
     </thead>
 @foreach (var item in Model.MakeRecords) {
     @Html.DisplayFor(modelItem => item.Name)
      <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 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:

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:

```
@page
@model AutoLot.Web.Areas.Admin.Pages.Makes.CreateModel
<h1>Create a New Make</h1>
<hr/>
@if (!string.IsNullOrEmpty(Model.Error))
{
  <div class="alert alert-danger" role="alert">@Model.Error</div>
}
else
{
  <form asp-page="Create">
    <div class="row">
      <div class="col-md-4">
        <div asp-validation-summary="ModelOnly" class="text-danger"></div>
        @Html.EditorFor(x => x.Entity, new { LookupValues = Model.LookupValues })
      </div>
    </div>
    <div class="d-flex flex-row mt-3">
       <button type="submit" class="btn btn-success">Create
       <i class="fa-solid fa-plus"></i></button>&nbsp;&nbsp; &nbsp; &nbsp;
       <item-list></item-list>
    </div>
  </form>
  @section Scripts {
    <partial name="_ValidationScriptsPartial"/>
}
```

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:

```
@page "{id?}"
@model AutoLot.Web.Areas.Admin.Pages.Makes.EditModel
<h1>Edit @Model.Entity.Name</h1>
<hr/>
@if (!string.IsNullOrEmpty(Model.Error))
{
  <div class="alert alert-danger" role="alert">@Model.Error</div>
}
else
{
  <form asp-page="Edit" asp-route-id="@Model.Entity.Id">
    <div class="row">
      <div class="col-md-4">
        <div asp-validation-summary="ModelOnly"></div>
        @Html.EditorFor(x => x.Entity)
        <input type="hidden" asp-for="Entity.Id"/>
        <input type="hidden" asp-for="Entity.TimeStamp"/>
      </div>
    </div>
    <div class="d-flex flex-row mt-3">
      <button type="submit" class="btn btn-primary">Save
        <i class="fa-solid fa-save"></i></button>&nbsp;&nbsp;|&nbsp;&nbsp;
      <item-list></item-list>
    </div>
  </form>
}
@section Scripts {
  @{ await Html.RenderPartialAsync("_ValidationScriptsPartial"); }
}
```

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="fa-solid fa-trash"></i></button>&nbsp;&nbsp; &nbsp; &nbsp;
      <item-list></item-list>
    </form>
  </div>
}
```

Part 3: Update the Menu

Add the following to the Menu.cshtml partial:

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

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.