.NET App Dev Hands-On Workshop

Razor Lab 6 – Helper Components

This lab adds helper components to the AutoLot.Blazor project. Before starting this lab, you must have completed Blazor Lab 5.

Part 1: Add the Navigation Helpers

• Add a new directory named Helpers to the AutoLot.Blazor project. In this folder, add another new folder named ItemHelpers. In this folder, add a new Razor component named CreateHelper.razor. Clear out the contents and update it to the following:

```
<a href="/@RouteStart/create" class="text-success">
   Create <i class="fa-solid fa-plus"></i></a>
@code {
   [Parameter] public string RouteStart { get; set; }
}
```

• Add a new Razor component named DeleteHelper.razor to the ItemHelpers folder. Clear out the contents and update it to the following:

```
<a href="/@RouteStart/delete/@Id" class="text-danger">
   Delete <i class="fa-solid fa-trash"></i></a> |
@code {
   [Parameter] public int Id { get; set; }
   [Parameter] public string RouteStart { get; set; }
}
```

• Add a new Razor component named DetailsHelper.razor to the ItemHelpers folder. Clear out the contents and update it to the following:

```
<a href="/@RouteStart/details/@Id" class="text-info">
    Details <i class="fa-solid fa-info-circle"></i></a> |
@code {
    [Parameter] public int Id { get; set; }
    [Parameter] public string RouteStart { get; set; }
}
```

• Add a new Razor component named EditHelper.razor to the ItemHelpers folder. Clear out the contents and update it to the following:

```
<a href="/@RouteStart/edit/@Id" class="text-warning">
   Edit <i class="fa-solid fa-edit"></i></a> |
@code {
   [Parameter] public int Id { get; set; }
   [Parameter] public string RouteStart { get; set; }
}
```

• Add a new Razor component named ListHelper.razor to the ItemHelpers folder. Clear out the contents and update it to the following:

```
<a href="/@RouteStart/index" class="text-primary">
   Back to List <i class="fa-solid fa-list"></i>>
@code {
   [Parameter] public string RouteStart { get; set; }
}
```

• Update the GlobalUsings.cs to include the new directories:

```
global using AutoLot.Blazor.Helpers;
global using AutoLot.Blazor.Helpers.ItemHelpers;
```

• Update the _Imports.razor file to include the new directory:

```
@using AutoLot.Blazor.Helpers
@using AutoLot.Blazor.Helpers.ItemHelpers
```

Part 2: Add the Car Helpers

• Add a new folder named CarHelpers under the Helpers folder. Add a new Razor component named CarDetail.razor to the CarHelpers folder. Clear out the contents and update it to the following:

```
<h1>Details for @CarInstance.PetName</h1>
<dl class="row">
  <dt class="col-sm-2">Make</dt>
  <dd class="col-sm-10">@CarInstance?.MakeNavigation?.Name</dd>
  <dt class="col-sm-2">Color</dt>
  <dd class="col-sm-10">@CarInstance?.Color</dd>
  <dt class="col-sm-2">Pet Name</dt>
  <dd class="col-sm-10">@CarInstance?.PetName</dd>
  <dt class="col-sm-2">Price</dt>
  <dd class="col-sm-10">@CarInstance?.Price</dd>
  <dt class="col-sm-2">Date Built</dt>
  <dd class="col-sm-10">@CarInstance?.DateBuilt?.ToShortDateString()</dd>
  <dt class="col-sm-2">Is Drivable</dt>
  <dd class="col-sm-10">@CarInstance?.IsDrivable</dd>
</dl>
@code {
  [Parameter]
  [EditorRequired]
  public Car CarInstance { get; set; } = default!;
}
```

• Add a new Razor component named CarEdit.razor to the CarHelpers folder. Clear out the contents and update it to the following:

```
<DataAnnotationsValidator/>
<ValidationSummary/>
<div>
  <label class="col-form-label" for="@nameof(Car.MakeId)">Make</label>
  <InputSelect class="form-control" @bind-Value="CarInstance.MakeId" id="@nameof(Car.MakeId)">
    @foreach (var item in Makes)
      <option value="@item.Id">@item.Name</option>
    }
  </InputSelect>
  <ValidationMessage For="() => CarInstance.MakeId"/>
<div>
  <label class="col-form-label" for="@nameof(Car.Color)">Color</label>
  <InputText class="form-control" @bind-Value="CarInstance.Color" id="@nameof(Car.Color)" />
  <ValidationMessage For="() => CarInstance.Color"/>
</div>
<div>
  <label class="col-form-label" for="@nameof(Car.PetName)">Pet Name</label>
  <InputText class="form-control" @bind-Value="CarInstance.PetName" id="@nameof(Car.PetName)" />
  <ValidationMessage For="() => CarInstance.PetName"/>
</div>
<div>
  <label class="col-form-label" for="@nameof(Car.Price)">Price</label>
  <InputText class="form-control" @bind-Value="CarInstance.Price" id="@nameof(Car.Price)" />
  <ValidationMessage For="() => CarInstance.Price"/>
</div>
<div>
  <label class="col-form-label" for="@nameof(Car.DateBuilt)">Date Built</label>
  <InputDate class="form-control" @bind-Value="CarInstance.DateBuilt"</pre>
    id="@nameof(Car.DateBuilt)" />
  <ValidationMessage For="() => CarInstance.DateBuilt"/>
</div>
<div>
  <label class="col-form-label" for="@nameof(Car.IsDrivable)">Is Drivable</label>
  <InputCheckbox @bind-Value="CarInstance.IsDrivable" id="@nameof(Car.IsDrivable)" />
  <ValidationMessage For="() => CarInstance.IsDrivable"/>
</div>
@code {
  [Inject]
  private IMakeDataService MakeDataService { get; set; }
  [Parameter]
  [EditorRequired]
  public List<Make> Makes { get; set; }
  [Parameter]
  [EditorRequired]
  public Car CarInstance { get; set; } = default!;
}
```

• Add a new Razor component named CarList.razor to the CarHelpers folder. Clear out the contents and update it to the following:

```
<h3>Car List</h3>
<thead>
  Make 
    Color
    Pet Name
    Price
    DateBuilt
    Is Drivable
    </thead>
 @foreach (var c in Cars)
  @c.MakeNavigation.Name
    @c.Color
    @c.PetName
    @c.Price
    @c.DateBuilt?.ToShortDateString()
    @c.IsDrivable
     <EditHelper Id="@c.Id" RouteStart="cars"/>
     <DetailsHelper Id="@c.Id" RouteStart="cars"/>
     <DeleteHelper Id="@c.Id" RouteStart="cars"/>
    }
 @code {
 [Parameter][EditorRequired]
 public List<Car> Cars { get; set; }
}
```

Update the GlobalUsings.cs to include the new directories:

global using AutoLot.Blazor.Helpers.CarHelpers;

• Update the Imports.razor file to include the new directory:

@using AutoLot.Blazor.Helpers.CarHelpers

Summary

This lab added navigation and template helpers to the client application.

Next Steps

The following lab will finish the Car pages.
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