# .NET App Dev Hands-On Workshop

#### Razor Lab 5 - Helper Components

This lab adds helper components to the AutoLot.Blazor project. Before starting this lab, you must have completed Blazor Lab 4.

# 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.
- Add a new Blazor component named CreateHelper.razor to the ItemHelpers folder. Clear out the contents and update it to the following:

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

• Add a new Blazor 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="fas fa-trash"></i></a> |
@code {
   [Parameter]
   public int Id { get; set; }
   [Parameter]
   public string RouteStart { get; set; }
}
```

• Add a new Blazor 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="fas fa-info-circle"></i></a> |
@code {
    [Parameter]
    public int Id { get; set; }
    [Parameter]
    public string RouteStart { get; set; }
}
```

• Add a new Blazor 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="fas fa-edit"></i></a> |
@code {
   [Parameter]
   public int Id { get; set; }
   [Parameter]
   public string RouteStart { get; set; }
}
```

• Add a new Blazor 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="fas fa-list"></i></a>
@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.ItemHelpers

#### Part 2: Add the Car Helpers

• Add a new folder named CarHelpers under the Helpers folder. Add a new Blazor 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?.ToLongDateString()</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 Blazor 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="quantity">Make</label>
  <InputSelect class="form-control" @bind-Value="CarInstance.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="color">Color</label>
  <InputText class="form-control" @bind-Value="CarInstance.Color"/>
  <ValidationMessage For="() => CarInstance.Color"/>
</div>
<div>
  <label class="col-form-label" for="petName">Pet Name</label>
  <InputText class="form-control" @bind-Value="CarInstance.PetName"/>
  <ValidationMessage For="() => CarInstance.PetName"/>
</div>
<div>
  <label class="col-form-label" for="price">Price</label>
  <InputText class="form-control" @bind-Value="CarInstance.Price"/>
  <ValidationMessage For="() => CarInstance.Price"/>
</div>
<div>
  <label class="col-form-label" for="dateBuilt">Date Built</label>
  <InputDate class="form-control" @bind-Value="CarInstance.DateBuilt"/>
  <ValidationMessage For="() => CarInstance.DateBuilt"/>
</div>
<div>
  <label class="col-form-label" for="isDrivable">Is Drivable
  <InputCheckbox @bind-Value="CarInstance.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 Blazor 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
    @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 next lab will finish the Car pages.

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