

.NET 9 App Dev Hands-On Lab

MVC with API Lab 1b – API Data Services

This lab adds the HTTP Client factory to be used by the web applications to leverage the RESTful service. Before starting this lab, you must have completed Razor Pages/MVC with API Lab 1a.

Part 1: Use the API Data Service Classes

In the AutoLot.Mvc application, add the following to the GlobalUsings.cs file:

```
global using AutoLot.Services.ApiWrapper.Configuration;
global using AutoLot.Services.DataServices.Api;
```

Step 1: Register the Api Data Services

- Update the call to add the data services in the Program.cs class to the following:

```
builder.Services.AddScoped<ICarDataService, CarDalDataService>();
builder.Services.AddScoped<IMakeDataService, MakeDalDataService>();
if (builder.Configuration.GetValue<bool>("UseApi"))
{
    builder.Services.AddScoped<ICarDataService, CarApiDataService>();
    builder.Services.AddScoped<IMakeDataService, MakeApiDataService>();
}
else
{
    builder.Services.AddScoped<ICarDataService, CarDalDataService>();
    builder.Services.AddScoped<IMakeDataService, MakeDalDataService>();
}
```

- Add the call to ConfigureApiServiceWrapper in the top-level statements in the Program.cs:

```
builder.Services.ConfigureApiServiceWrapper(builder.Configuration);
```

Step 2: Update the Application Settings

- Update the RebuildDatabase flag to false:

```
"RebuildDataBase": false,
```

- Add the following to the appsettings.Development.json and appsettings.Staging.json files (don't forget to add a comma after the last line before adding the new lines):

```
"UseApi": true,  
"ApiServiceSettings": {  
  "Uri": "https://localhost:5011/",  
  "CarBaseUri": "api/v1/Cars",  
  "MakeBaseUri": "api/v1/Makes",  
  "MajorVersion": 1,  
  "MinorVersion": 0,  
  "Status": ""  
}
```

Step 3: Test the Apps

- Using Visual Studio, right-click the solution and set the AutoLot.Api and AutoLot.Mvc projects to be the startup projects.
- Using Visual Studio Code, use dotnet watch run for both apps, starting with AutoLot.Api.

Summary

This lab changed the data source to the RESTful services.