

# .NET 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 to the following:

```
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` file (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.