# .NET App Dev Hands-On Lab

#### API Lab 1 – Solution and Projects

This lab walks you through creating the ASP.NET Core RESTful service project and adding/updating the NuGet packages. Prior to starting this lab, you must have completed EF Lab 01.

### **Part 1: Creating the Projects**

### Step 1: Create the ASP.NET Core RESTful Service Project

• Create the ASP.NET Core service application project:

```
[Windows]
dotnet new webapi -lang c# -n AutoLot.Api -au none -o .\AutoLot.Api --use-controllers -f net8.0
```

• Add the project to the solution and project references:

```
dotnet sln AutoLot.sln add AutoLot.Api
dotnet add AutoLot.Api reference AutoLot.Models
dotnet add AutoLot.Api reference AutoLot.Dal
dotnet add AutoLot.Api reference AutoLot.Services
```

• Add the required NuGet packages to the project:

```
dotnet add AutoLot.Api package AutoMapper -v [12.0.*,13.0)
dotnet add AutoLot.Api package Asp.Versioning.Mvc -v [7.1.*,8.0)
dotnet add AutoLot.Api package Asp.Versioning.Mvc.ApiExplorer -v [7.1.*,8.0)
dotnet add AutoLot.Api package Microsoft.VisualStudio.Threading.Analyzers -v [17.*,)
dotnet add AutoLot.Api package Microsoft.EntityFrameworkCore.SqlServer -v [8.0.*,9.0)
dotnet add AutoLot.Api package Microsoft.EntityFrameworkCore.Design -v [8.0.*,9.0)
dotnet add AutoLot.Api package Microsoft.VisualStudio.Threading.Analyzers -v [17.*,)
dotnet add AutoLot.Api package Microsoft.VisualStudio.Web.CodeGeneration.Design -v [8.0.*,9.0)
dotnet add AutoLot.Api package Swashbuckle.AspNetCore -v [6.5.*,7.0)
dotnet add AutoLot.Api package Swashbuckle.AspNetCore.Annotations -v [6.5.*,7.0)
dotnet add AutoLot.Api package Swashbuckle.AspNetCore.Swagger -v [6.5.*,7.0)
dotnet add AutoLot.Api package Swashbuckle.AspNetCore.Swagger -v [6.5.*,7.0)
dotnet add AutoLot.Api package Swashbuckle.AspNetCore.SwaggerGen -v [6.5.*,7.0)
dotnet add AutoLot.Api package Swashbuckle.AspNetCore.SwaggerGen -v [6.5.*,7.0)
dotnet add AutoLot.Api package Swashbuckle.AspNetCore.SwaggerUI -v [6.5.*,7.0)
dotnet add AutoLot.Api package Swashbuckle.AspNetCore.SwaggerUI -v [6.5.*,7.0)
```

# Part 2: Disable Nullable Reference Types

Open the project file (\*.csproj) for the new projects and disable nullable types and set invariant globalization to false (changes in bold):

```
<PropertyGroup>
  <TargetFramework>net8.0</TargetFramework>
  <Nullable>disable</Nullable>
  <ImplicitUsings>enable</ImplicitUsings>
  <InvariantGlobalization>false</InvariantGlobalization>
```

# Part 3: Adjust the launchsettings.json file

#### Step 1: Move the https profile to the top in AutoLot.Mvc and AutoLot.Api

If a profile isn't selected, the first profile in the list will be selected by default. Move the https profile to the top so it gets selected and not the http profile.

## Summary

This lab created the solution and the projects, and added the NuGet packages, and the appropriate references.

## **Next steps**

In the next part of this tutorial series, you will start working with the Web API project.