

.NET App Dev Hands-On Lab

RP Lab 1 – The Razor Pages Project

This lab walks you through creating the ASP.Net Core Web Application (Razor Pages) project and adding/updating the NuGet packages. Prior to starting this lab, you must have completed EF Lab7.

Part 1: Create the Project

- The razor template is extremely configurable. Options can be explored by using -h (help):

```
dotnet new razor -h
```

- Create the ASP.NET Core web application project using the model-view-controller pattern:

[Windows]

```
dotnet new razor -lang c# -n AutoLot.Web -au none -o .\AutoLot.Web -f net8.0
```

- Add the project to the solution and project references:

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

- Add the required NuGet packages to the project:

```
dotnet add AutoLot.Web package AutoMapper -v [12.0.*,13.0)
dotnet add AutoLot.Web package System.Text.Json -v [8.0.*,9.0)
dotnet add AutoLot.Web package LigerShark.WebOptimizer.Core -v [3.0.*,4)
dotnet add AutoLot.Web package Microsoft.Web.LibraryManager.Build -v [2.1.*,3.0)
dotnet add AutoLot.Web package Microsoft.EntityFrameworkCore.SqlServer -v [8.0.*,9.0)
dotnet add AutoLot.Web package Microsoft.EntityFrameworkCore.Design -v [8.0.*,9.0)
dotnet add AutoLot.Web package Microsoft.VisualStudio.Web.CodeGeneration.Design -v [8.0.*,9.0)
dotnet add AutoLot.Web package Microsoft.VisualStudio.Threading.Analyzers -v [17.*,)
```

Part 2: Disable Nullable Reference Types and Enable Global Implicit Using Statements

Open the new project file (*.csproj) and update the PropertyGroup to the following (change is in bold):

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

Part 3: Adjust the launchsettings.json file

Open the `launchsettings.json` file (in the `Properties` directory of the project) and move the `HTTPS` profile to the top.

Summary

This lab created the ASP.NET Core Web Application project and added the NuGet packages and the appropriate references.

Next steps

In the next part of this tutorial series, build the services layer.