

# .NET 9 App Dev Hands-On Lab

## MVC Lab 1 – MVC Project

This lab walks you through creating the ASP.NET Core Web Application using the MVC pattern project and adding/updating the NuGet packages. Before starting this lab, you must have completed EF Lab 6.

### Part 1: Creating the Project

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

```
dotnet new mvc -h
```

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

[Windows]

```
dotnet new mvc -lang c# -n AutoLot.Mvc -au none -o .\AutoLot.Mvc -f net9.0
```

- Add the project to the solution and project references:

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

- Add the required NuGet packages to the project (if using a regular command prompt, remove the single quotes):

```
dotnet add AutoLot.Mvc package System.Text.Json -v '[9.0.*,10.0)'\
dotnet add AutoLot.Mvc package LigerShark.WebOptimizer.Core -v '[3.0.*,4)'\
dotnet add AutoLot.Mvc package Microsoft.Web.LibraryManager.Build -v '[2.1.*,3.0)'\
dotnet add AutoLot.Mvc package Microsoft.EntityFrameworkCore.SqlServer -v '[9.0.*,10.0)'\
dotnet add AutoLot.Mvc package Microsoft.EntityFrameworkCore.Design -v '[9.0.*,10.0)'\
dotnet add AutoLot.Mvc package Microsoft.VisualStudio.Web.CodeGeneration.Design -v '[9.0.*,10.0)'\
dotnet add AutoLot.Mvc package Microsoft.VisualStudio.Threading.Analyzers -v '[17.*,18.0)'
```

### Part 2: Disable Nullable Reference Types

- 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>
```

- Remove the nullable reference indicator on the `ErrorViewModel.cs` class::

```
public string RequestId { get; set; }
```

## Part 3: Adjust the launchsettings.json file

Open the launchsettings.json file (in the project's Properties directory) 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

You will start building the services layer in the next part of this tutorial series.