Build an EF and ASP.NET Core App H

Welcome to the Build an Entity Framework Core and ASP.NET Core Application Lab. This lab walks you through creating the projects and adding/updating the N

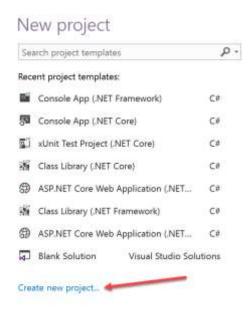
Prior to starting this lab, you must have completed Lab 0, Installing the Prerequi

All labs and files are available at https://github.com/skimedic/dotnetcore_hol.

Part 1: Creating the Solution and Projects

Step 1: Create the ASP.NET Core project and solution

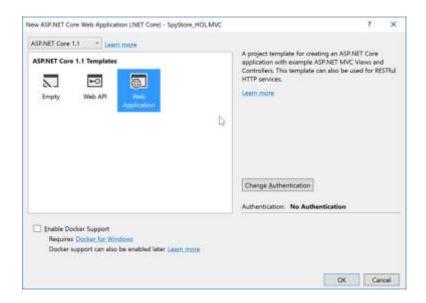
1) From the Start Page, select Create New Project



2) Select .NET Core from the templates from the left rail and ASP.NET Core W the center section and name it SpyStore_HOL.MVC:



 On the next screen, make sure the ASP.NET Core 1.1 templates are selected, Application. Leave the authentication as "No Authentication", and leave the unchecked.



Step 2: Create the Models project

- 1) Right click on the solution, and select Add -> New Project
- 2) Select .NET Core from the templates from the left rail and Class Library (.NI center section and name it SpyStore_HOL.Models:



3) Delete the Class.cs file.



3) Delete the code from the Main method.

Step 4: Create the Unit Test project

- 1) Right click on the solution, and select Add -> New Project
- 2) Select .NET Core from the templates from the left rail and xUnit Test Projec center section and name it SpyStore_HOL.Tests:



3) Delete the code from the Main method.

Part 2: Add/Update the NuGet packages

.NET Core is composed of a series of NuGet packages that update faster than the in addition to adding new packages, the existing packages must be updated.

Stan 1. Undata the MVC Project

5) Open StartUp.cs and comment out the following line in the Configure metho app.UseBrowserLink();

Step 2: Update the Models Project

2) Click Updates at the top, and update all packages that need updating.

1) Right click on the SpyStore_HOL.Models project, and select Manage NuGet

3) Add the Entity Framework Core packages by clicking Browse, then entering Microsoft. Entity Framework Core in the search box. Select and install

Microsoft.EntityFrameworkCore and Microsoft.EntityFrameworkCore.SqlSe

Step 3: Update the DAL Project

- 1) Right click on the SpyStore_HOL.DAL project, and select Manage NuGet Pa
- 2) Click Updates at the top, and update all packages that need updating.
- 3) Install the following packages: Microsoft.EntityFrameworkCore

Microsoft.EntityFrameworkCore.Design

Microsoft.EntityFrameworkCore.Relational

Microsoft.EntityFrameworkCore.Relational.Design Microsoft.EntityFrameworkCore.SqlServer

Microsoft. Entity Framework Core. Sql Server. Design

Microsoft. Entity Framework Core. Tools

- 4) Right click on the SpyStore_HOL.DAL project, and select Edit SpyStore_HO
 - a) Add the following XML to the project file:

<ItemGroup>
<DotNetCliToolReference Include="Microsoft.EntityFrameworkCore.Tools.DotNet" Versior
</ItemGroup>

Step 4: Update the Unit Test Project

- 1) Right click on the SpyStore_HOL.Tests project, and select Manage NuGet Pa
- 2) Click Updates at the top, and update all packages that need updating.
- 3) Add the Entity Framework Core packages by clicking Browse, then entering Microsoft.EntityFrameworkCore in the search box. Select and install

Step 1: Update the MVC Project

- 1) Right click on the SpyStore_HOL.Tests project, and select Add -> Reference
- 2) Select SpyStore_HOL.DAL and SpyStore_HOL.Models

Step 2: Update the DAL Project

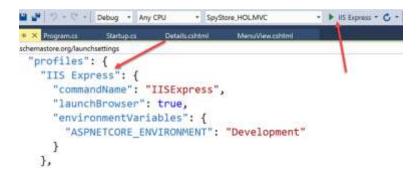
- 1) Right click on the SpyStore_HOL.DAL project, and select Add -> Reference
- 2) Select SpyStore_HOL.Models

Step 3: Update the Tests Project

- 1) Right click on the SpyStore_HOL.Tests project, and select Add -> Reference
- 2) Select SpyStore_HOL.DAL and SpyStore_HOL.Models

Part 4: Running the Application

- 1) Set the MVC project as the Startup Project.
- 2) Examine launchSettings.jon under the Properties node in the SpyStore_HOL
 - a) IIS Express profile controls IIS Express in Visual Studio 2017



b) SpyStore_HOL profile controls Kestrel in Visual Studio 2017



Summary

This lab created all of the projects for the HOL, added the NuGet packages, and references.

Next steps

In the next part of this tutorial series, you will start to build the data access librar Framework Core.