# Build an ASP.NET Core Service, and App with Core 2.2 Two-Day Hand-On Lab

#### Lab 7

This lab is the second in a series that builds the SpyStore RESTful service. This lab configures the service for Swagger documentation. Prior to starting this lab, you must have completed Lab 6.

# Part 1: Configure the Application with Swagger

### Step 1: Update the using statements in the Startup.cs class

1) Add the following using statements to the top of the Statup.cs class:

```
using System.IO;
using System.Reflection;
using Swashbuckle.AspNetCore.Swagger;
```

# Step 2: Add the Required Services to the Dependency Injection Container

1) Navigate to the ConfigureServices method of the Startup.cs file and add the following code to add the SwaggerGen service (make sure the Url for the license uses the same port as found in launchSettings.json):

```
services.AddSwaggerGen(c =>
  c.SwaggerDoc("v1",
    new Info
      Title = "SpyStore Service",
      Version = "v1",
      Description = "Service to support the SpyStore sample eCommerce site",
      TermsOfService = "None",
      License = new License
        Name = "Freeware",
        Url = "http://localhost:38080/LICENSE.txt"
      }
    });
  var xmlFile = $"{Assembly.GetExecutingAssembly().GetName().Name}.xml";
  var xmlPath = Path.Combine(AppContext.BaseDirectory,xmlFile);
  c.IncludeXmlComments(xmlPath);
});
```

### Step 3: Configure the application to use Swagger

1) Add the following code to the Configure method, **before** the app.UseCors method call. Static File support must be added for the Swagger UI display:

```
app.UseSwagger();
app.UseSwaggerUI(c =>
{
    c.SwaggerEndpoint("/swagger/v1/swagger.json","SpyStore Service v1");
});
app.UseStaticFiles();
```

# **Step 4: Configure the project to generate the XML documentation**

Swagger uses reflection to display the available URIs in a service. It also uses the triple-slash comments to

1) Edit the SpyStore.Service.csproj file to add the following node (shown in bold):

```
<PropertyGroup>
  <TargetFramework>netcoreapp2.2</TargetFramework>
    <GenerateDocumentationFile>true</GenerateDocumentationFile>
    <LangVersion>latest</LangVersion>
</PropertyGroup>
```

#### **Step 5: Add the License File**

- 1) Add a new directory named wwwroot into the SpyStore. Service project.
- 2) Add a new text file named License.txt to the wwwroot directory. Add any content into the file (sample content is located in the Code/Completed/Lab7 project.

### Step 6: Update the launchSetting.json file

1) Open the launchSettings.json file and update the launch URLs to be the Swagger UI page (changes shown in bold – note that your port will most likely be different. **DO NOT** change the port in the IIS Express profile! DO update the port in the SpyStore.Hol.Service profile to match the port in the IIS Express profile)

```
"$schema": "http://json.schemastore.org/launchsettings.json",
"iisSettings": {
    "windowsAuthentication": false,
    "anonymousAuthentication": true,
    "iisExpress": {
        "applicationUrl": "http://localhost:38080",
        "sslPort": 0
    }
},
"profiles": {
    "IIS Express": {
        "commandName": "IISExpress",
        "launchBrowser": true,
        "launchUrl": "swagger",
        "environmentVariables": {
        "ASPNETCORE_ENVIRONMENT": "Development"
```

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```
}
},

"SpyStore.Hol.Service": {
    "commandName": "Project",
    "launchBrowser": true,
    "launchUrl": "swagger",
    "applicationUrl": "http://localhost:38080",
    "environmentVariables": {
        "ASPNETCORE_ENVIRONMENT": "Development"
     }
}
```

# **Summary**

This lab configured Swagger and SwaggerUI for the service.

# **Next steps**

In the next part of this tutorial series, you will add a global exception filter into the service.