# Build an EF and ASP.NET Core 2 App HOL

Welcome to the Build an Entity Framework Core and ASP.NET Core 2 Application in a Day Hands On Lab. This lab walks you through configuring the pipeline, setting up configuration, and dependency injection.

Prior to starting this lab, you must have completed Lab 3.

All labs and files are available at https://github.com/skimedic/dotnetcore\_hol.

### Part 1: Update the WebHostBuilder in Program.cs

- 1) Examine the port in the launchSettings.json for the SpyStore\_HOL.MVC setting block.
- 2) Open the Program.cs file and update the WebHostBuilder call as follows (adjusting to the port for SpyStore\_HOL.MVC profile in launchsettings.json):

```
public static IWebHost BuildWebHost(string[] args) =>
  WebHost.CreateDefaultBuilder(args)
  .UseUrls("http://*:50794/")
  .UseStartup<Startup>()
  .Build();
```

### Part 2: Update the Startup.cs class

#### **Step 1: Update the using statements**

1) Update the using statements to the following:

```
using Microsoft.AspNetCore.Builder;
using Microsoft.AspNetCore.Hosting;
using Microsoft.EntityFrameworkCore;
using Microsoft.Extensions.Configuration;
using Microsoft.Extensions.DependencyInjection;
using Microsoft.Extensions.Logging;
using SpyStore_HOL.DAL.EF;
using SpyStore_HOL.DAL.EF.Initialization;
using SpyStore_HOL.DAL.Repos;
using SpyStore_HOL.DAL.Repos.Interfaces;
```

### **Step 2: Configure the Dependency Injection Container**

- 1) Open the Startup.cs file and navigate to the ConfigureServces method
- 2) Add the following code after the services.MVC() call:

```
services.AddDbContextPool<StoreContext>(options => options.UseSqlServer(Configuration.GetConnectionString("SpyStore"))); services.AddScoped<ICategoryRepo, CategoryRepo>(); services.AddScoped<IProductRepo, ProductRepo>(); services.AddScoped<ICustomerRepo, CustomerRepo>();
```

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```
services.AddScoped<IShoppingCartRepo, ShoppingCartRepo>(); services.AddScoped<IOrderRepo, OrderRepo>(); services.AddScoped<IOrderDetailRepo, OrderDetailRepo>();
```

### Step 3: Call the Data Initializer in the Configure method

- 1) Navigate to the Configure method.
- 2) Update the code block in the IsDevelopment if block:

```
app.UseDeveloperExceptionPage();
app.UseBrowserLink();
using (var serviceScope = app.ApplicationServices.GetRequiredService<IServiceScopeFactory>()
    .CreateScope())
{
    StoreDataInitializer.InitializeData(app.ApplicationServices);
}
```

### **Part 3: Configure the Application**

#### Step 1: Add the connection string to the development settings

```
1) Update the appsettings.Development.json to the following (adjusted for your machine's setup):

{
    "Logging": {
        "IncludeScopes": false,
        "LogLevel": {
            "Default": "Debug",
            "System": "Information",
            "Microsoft": "Information"
        }
    },
    "ConnectionStrings": {
        "SpyStore":
    "Server=(localdb)\\mssqllocaldb;Database=SpyStore_HOL2;Trusted_Connection=True;MultipleActiveResultSets
=true"
    }
}
```

### **Step 2: Add the connection string to the production settings**

- 1) Add a new json file named appsettings. Production. json.
- 2) Update the file to the following:

```
"Logging": {
  "IncludeScopes": false,
  "LogLevel": {
    "Default": "None"
    }
},
```

```
"ConnectionStrings": {
    "SpyStore": "Production connection string"
    }
}
```

3) If you change the environment to Production, the app will fail on the data initialization.

## **Summary**

The lab configured the WebHostBuilder, the Startup class, the HTTP pipeline, and application configuration.

### **Next steps**

In the next part of this tutorial series, you will create a custom validation attribute.