## **Configueration Lab**

Perform these labs on your own computer using Visual Studio 2022 to ensure you understand the lessons presented in the corresponding videos and lectures.

# Lab 1: Add Configuration Settings to JSON File

Open the **appsettings.Development.json** file and add the following JSON object shown in **bold** below.

```
"AdvWorksAPI": {
    "InfoMessageDefault": "Problem Attempting to {Verb}
using the {ClassName} API. Please Contact Your System
Administrator.",
    "DefaultTitle": "Ms.",
    "DefaultEmail": "FirstName.LastName@AdvWorks.com"
},
    "Logging": {
    "LogLevel": {
        "Default": "Information",
        "Microsoft.AspNetCore": "Warning"
      }
    }
}
```

Open the **AdvWordsAPIDefaults.cs** file in the **EntityLayer** folder Add the property **InfoMessageDefault** to this class.

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

Modify the constructor with the change shown in **bold** below.

```
public AdvWorksAPIDefaults()
{
   Created = DateTime.Now;
   InfoMessageDefault = string.Empty;
   DefaultTitle = "Mr.";
   DefaultEmail = "LastName.FirstName@adventure-works.com";
}
```

## Lab 2: Read Settings in Program.cs

Open the **Program.cs** file and insert the code shown in **bold** below.

```
// ****************************
// Add and Configure Services
// ***************************
builder.Services.AddSingleton<AdvWorksAPIDefaults,
AdvWorksAPIDefaults>();

// Read "AdvWorksAPI" section and add as a singleton
AdvWorksAPIDefaults settings = new();
builder.Configuration.GetSection("AdvWorksAPI").Bind(set tings);
builder.Services.AddSingleton<AdvWorksAPIDefaults>(settings);
builder.Services.AddScoped<IRepository<Customer>,
CustomerRepository>();
```

Open the CustomerRouter.cs file and add a new private field

```
private readonly AdvWorksAPIDefaults _Settings;
```

Modify the constructor as shown in **bold** below.

```
public CustomerRouter(IRepository<Customer> repo,
ILogger<CustomerRouter> logger, AdvWorksAPIDefaults
settings) : base(logger)
{
   UrlFragment = "api/Customer";
   TagName = "Customer";
   _Repo = repo;
   _Settings = settings;
}
```

Locate the Get() method and in the catch block where you set the **InfoMessage** property, replace it with the following code shown in **bold**.

```
catch (Exception ex) {
   // Return generic message for the user
   InfoMessage = _Settings.InfoMessageDefault
        .Replace("{Verb}", "GET")
        .Replace("{ClassName}", "Customer");

ErrorLogMessage = "Error in CustomerRouter.Get()";

ret = HandleException(ex);
}
```

#### **Try it Out**

Run the application and click on the **GET** /api/Customer button.

```
Error: Internal Server Error

Response body

{
    "type": "https://tools.ietf.org/html/rfc7231#section-6.6.1",
    "title": "An error occurred while processing your request.",
    "status": 500,
    "error"

Please Contact Your System Administrator."

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}
```

### Remove the Throwing of the Exception

In the Get() method and **COMMENT OUT** the *throw new ApplicationException("ERROR!");* line.