Practice 1-1 Use Visual Studio to run the Guitar Shop app

In this exercise, you will run the Guitar Shop app. This will test whether you have successfully installed the software and source code for this book. In addition, this practice exercise will introduce you to web application development, ASP.NET Core, and the MVC pattern and components.

Start Visual Studio and Open the Guitar Shop app

1. Download and extract the Ch01GuitarShop compressed folder available in D2L. Keep all of your files for INFS 4950 in one folder that you can readily access when working on the practice exercises and homework. Open the Ch01GuitarShop web application in Visual Studio by double clicking the Ch01GuitarShop.sln file.

Run the Guitar Shop app

2. Run the application. That should display the Home page for the Guitar Shop app in Visual Studio's default web browser. If you get messages about trusting and installing an SSL certificate, you can click Yes. And if a web page is displayed indicating that the connection is not private, you can click the link to proceed.
3. Click the "View Fender Stratocaster" link. This should display the Product Detail page for that product.
4. Click the Home button to return to the Home page.
5. Click the "View Product" link. This should display a list of products.
6. Click the View link for the product named Gibson Les Paul. This should display the Product Detail page for that product.
7. Close the browser tab or window for the app, and then switch back to Visual Studio.
8. In the Solution Explorer, expand the Controllers, Models, and Views folders and review some of the code.
    a. Review the MVC pattern
    b. Coding by convention
    c. How a controller passes a model to a view
        i. Additional resource https://docs.microsoft.com/en-us/aspnet/core/mvc/controllers/routing?view=aspnetcore-5.0
    d. How a view uses Razor code, tag helpers, and Bootstrap CSS classes
    e. How Startup.cs configures the middleware for an app
9. Set a breakpoint in the ProductController Detail action
10. Add bootstrap table-active to Product List
11. Add button (default) to go to the Product List from the Detail Page
12. Add a link to show another Product (such as Gibson SG)

Turn in the Guitar Shop app

13. Once you are satisfied with your application, close Visual Studio, compress the Guitar Shop app at the root level, and rename the compressed folder using the following naming convention:

FirstInitial_LastName_Ch01GuitarShop

For example:

M_Korzaan_Ch01GuitarShop

14. Upload the renamed, compressed folder to the appropriate Dropbox in D2L.

Optional – Publish to Azure

1. Free student Azure account available at http://portal.azure.com.
2. Right click on GuitarShop root level folder in the Solution Explorer of Visual Studio. Then, select Publish -> Azure -> Azure App Service (Windows) -> Create a new Azure App Service
    a. When naming the App, Resource Group, and Hosting Plan, remember to use the same naming convention we use for assignments (FirstInitialLastNameNameOfApp). For example, my App, Resource Group, and Hosting Plan would be named the following:
        i. MKorzaanGuitarShop
        ii. Resource Group: MKorzaanGuitarShop
        iii. MKorzaanGuitarShopPlan
3. Then, choose [CREATE] [FINISH] [PUBLISH]
4. Additional references
    a. App Service documentation: https://docs.microsoft.com/en-us/azure/app-service/
    b. App Service overview: https://docs.microsoft.com/en-us/azure/app-service/overview
    c. Quickstart - Create an ASP.NET Core web app in Azure: https://docs.microsoft.com/en-us/azure/app-service/quickstart-dotnetcore?tabs=netcore31&pivots=platform-linux
    d. Tutorial – Deploy an ASP.NET app to Azure with Azure SQL Database: https://docs.microsoft.com/en-us/azure/app-service/app-service-web-tutorial-dotnet-sqldatabase