# Build and Installation Guide

**Online Bookstore MVC Application**

**Introduction**

This document provides step-by-step instructions for building and installing the Online Bookstore MVC application using Microsoft Visual Studio. Please follow these guidelines to ensure a successful setup on any external computer.

**Prerequisites**

Before you begin, make sure you have the following software installed on your machine:

1. Microsoft Visual Studio: Ensure you have a version of Visual Studio installed that supports ASP.NET MVC development.

2..NET Core SDK: Download and install the latest version of the .NET Core SDK from <https://dotnet.microsoft.com/download>.

**Clone the Repository**

1. Open a command prompt or terminal window.

2. Change the current working directory to the location where you want to clone the repository.

3. Run the following command to clone the Online Bookstore repository:

git clone <https://code.umd.edu/zhuang21/enpm809wfall2023project-zhuang21.git>

**Build the Application**

1. Open Microsoft Visual Studio.

2. Click on "File" in the menu and select “Open Project/Solution.”

3. Navigate to the directory where you cloned the repository and open the solution file (“OnlineBookstore.sln”).

4. Once the project is loaded, right-click on the solution in Solution Explorer and select "Restore NuGet Packages" to install the project dependencies.

5. Build the solution by right-clicking on the solution again and selecting "Build" or by pressing “Ctrl + Shift + B”.

**Configure Database Connection**

1. Open the “appsettings.json” file in the project.

2. Locate the “DefaultConnection” section under “ConnectionStrings”.

3. Update the connection string with your database information.

**Apply Database Migrations**

1. Open the Package Manager Console (Tools > NuGet Package Manager > Package Manager Console).

2. Run the following commands to apply migrations:

Update-Database

**Configure IIS Express**

1. Ensure IIS Express is installed on the server.

2. Open the project properties in Visual Studio.

3. Navigate to the "Debug" tab.

4. In the "Profile" dropdown, select "IIS Express."

5. Set the "Launch" option to "Project."

**Run the Application on IIS Express**

1.Press F5 or click on the "Start" button to run the application.

The Online Bookstore MVC application should now be running on IIS Express. Access the application by navigating to http://localhost:port in a web browser.

**Conclusion**

Congratulations! You have successfully built and installed the Online Bookstore application. If you encounter any issues, refer to the project's documentation or seek help from the community.