**ASP.NET MVC CRUD Application with Web API**

**Overview**

This project is a web application developed using ASP.NET MVC to manage a list of products. It includes a RESTful API for CRUD operations (Create, Read, Update, Delete).

**Prerequisites**

* **Visual Studio 2022**
* **SQL Server**
* **.NET SDK 8.0** - Download and install dotnet-sdk-8.0.401-win-x64

**Project Setup**

1. **Install Required Packages**

Open Visual Studio, right-click on Product\_Management, and select **Manage NuGet Packages**. Search for and install the following packages:

* + Microsoft.EntityFrameworkCore Version 8.0.8
  + Microsoft.EntityFrameworkCore.SqlServer Version 8.0.8
  + Microsoft.EntityFrameworkCore.Tools Version 8.0.8
  + Swashbuckle.AspNetCore Version 6.7.1
  + Swashbuckle.AspNetCore.SwaggerUI Version 6.7.1

1. **Configure Connection String**

In appsettings.json, set the connection string:

"ConnectionStrings": {

"DefaultConnection": "Server=Your-Server-Connection;Database=ProductsDB;Trusted\_Connection=true;TrustServerCertificate=true;"

}

Replace Your-Server-Connection with your SQL Server instance name. Open SQL Server Management Studio, copy the server name, and use it here.

1. **Apply Database Migrations**

Open Visual Studio, go to **Tools > NuGet Package Manager > Package Manager Console**, and run:

update-database

1. **Run the Application**

Press F5 or use:

dotnet run

The application will run at https://localhost:7107.

**Accessing the Application**

* **Swagger API Documentation**: Visit <https://localhost:7107/index.html> to view and interact with the API using Swagger.
* **Product Management Page**: Visit <https://localhost:7107/ProductsView> to perform CRUD operations through the MVC views.