Step-by-Step Instructions

1. Open Visual Studio 2022:

* Click on create new project.
* Search and select ASP.NET Core Web App (Model-View-Controller) and then click on next.

1. Project:

* Name the Project “AgriEnergyConnect”
* Place the project on a location/folder where you’ll be able to find and access it.
* For the framework select .net 8.0
* For authentication type select Individual Accounts and then click on create.

1. NuGet Packages:

* Click on Tools and then click on NuGet Package Manager and then click on Manage NuGet Packages.
* Install these packages Microsoft.AspNetCore.Identity.EntityFrameworkCore, Microsoft.EntityFrameworkCore.SqlServer, and Microsoft.EntityFrameworkCore.Tools

1. Add Database Context:

* Find the ApplicationDbContext.cs file which is located in the Data folder and ensure that includes:

public DbSet<Product> Products { get; set; }

public DbSet<FarmerProfile> FarmerProfiles { get; set; }

1. Update Database and Apply Migrations:

* Open the package manager and type the following commands:

Add-Migration InitialCreate

Update-Database

How to Build and Run the Prototype

1. Build Instructions:

* In Visual Studio 2022 open the AgriEnergyConnect.sln project.
* Click on Build solution.
* Ensure that there are no build errors.

1. Run Instructions:

* On the toolbar click on the run button (IIS Express)
* After it runs successfully it will open a web browser, which you will then be able to register a user and select either Employee or Farmer role.
* You will then be able to log in and employees will see options and be able to add farmer profiles and view products. Farmers will see options and be able to add and view their products.

User Roles and System Functionalities:

1. Employee role:

* Users with the employee role selected will be able to manually create and add farmer profiles by entering the full name, email, and contact number.
* Users with the employee role selected will be able to view the products that the farmer’s submitted.

1. Farmer role:

* Users with the farmer role selected will be able to manually create and add products by entering the name, category, and production date.
* Users with the farmer role selected will be able to view the products that they added.

Github link: <https://github.com/IIEWFL/prog7311-part-2-st10357922.git>