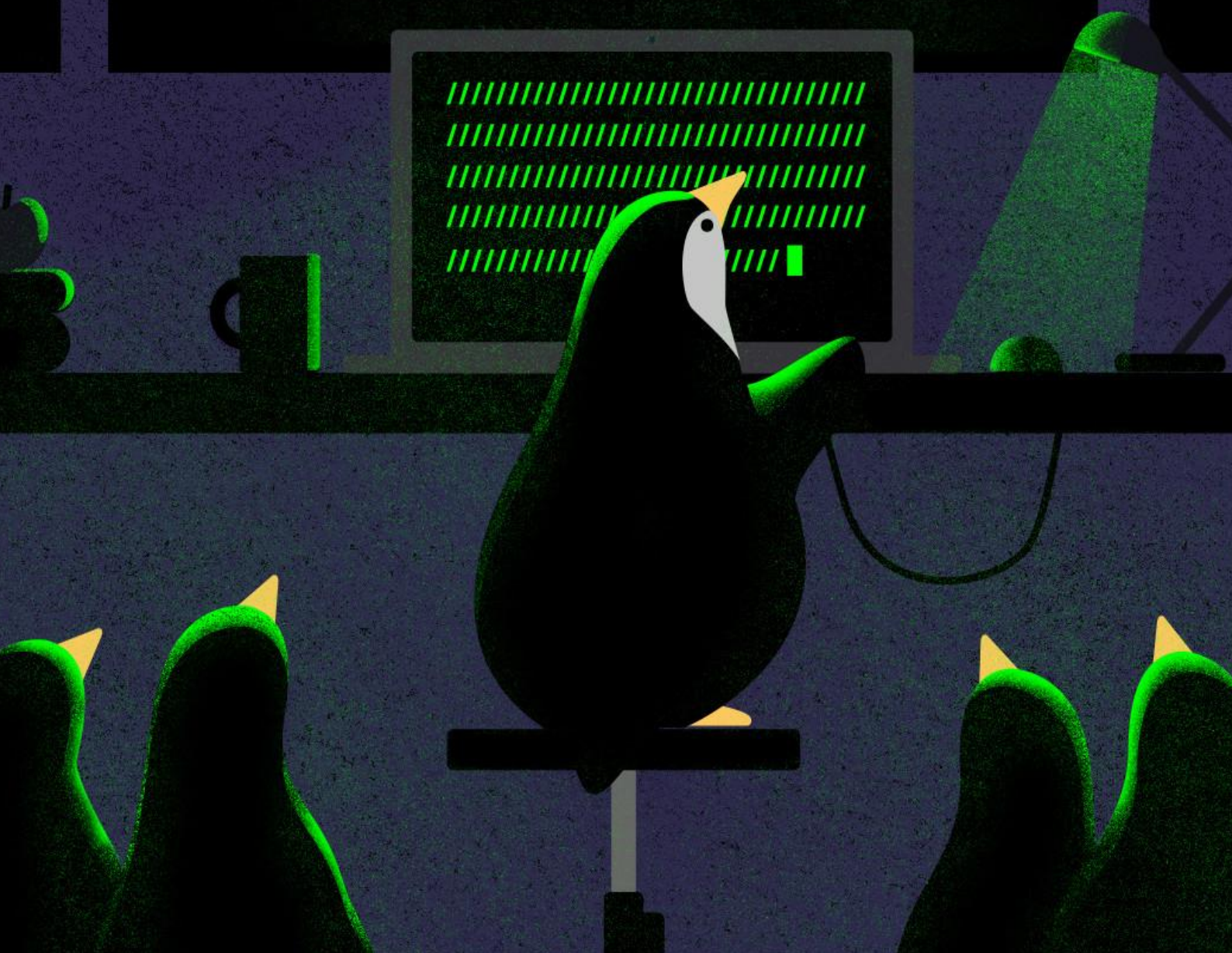


SIVAN MOODLEY - ST10084225

PROG7311 - PART 2

README FILE



## Table of Contents

<b>Description .....</b>	<b>3</b>
<b>Developer Info .....</b>	<b>4</b>
<b>Software Specs .....</b>	<b>4</b>
<b>F.A.Q .....</b>	<b>4</b>
<b>Code Attribution.....</b>	<b>5</b>
<b>Software Requirements .....</b>	<b>5</b>
<b>Hardware Requirements .....</b>	<b>6</b>
<b>How to Compile and Run the App in VS 2022 .....</b>	<b>6</b>
<b>Testing the app.....</b>	<b>8</b>
<b>Support .....</b>	<b>10</b>
<b>GitHub .....</b>	<b>10</b>

## **Description**

I have been tasked with creating a prototype website for Farm Central, a local farm product distribution company.

The prototype should address each of their concerns of the major stakeholders:

- Head of Accounting: accuracy of the data.
- Head of Marketing: How the website looks.
- Store Manager: How easy the website is to use.

### ***The website has been designed with this functionality in mind:***

- The prototype website shall have a database of farmers with their associated products.
- The prototype website shall provide two different user roles: farmer and employee.
- The prototype website shall require farmers and employees to log into the website to access user-specific information.
- The prototype website shall allow a logged-in employee to add a new farmer to the database.
- The prototype website shall allow a logged-in farmer to add a new product to their profile in the database.
- The prototype website shall allow a logged-in employee to view the list of all the products ever supplied by a specific farmer.
- The prototype website shall allow a logged-in employee to filter the displayed list of products supplied by a specific farmer according to the date range or product type.

### ***Changes in functionality:***

- The prototype website shall provide **FOUR** different user roles: Manager, Employee, Farmer and Customer.
- The prototype website shall require **Managers, Employees, Farmers and Customers** to log into the website to access user-specific information.

The prototype website shall allow a logged-in **Manager** to add a new farmer or new employee to the database.

- The prototype website shall allow a logged-in employee to add a new farmer to the database.

- The prototype website shall allow a logged-in farmer to add a new product to their profile in the database (**The product must have an image uploaded by the user to display to site users**).
- The prototype website shall allow a logged-in **Manager** or employee to view the list of all the products ever supplied by a specific farmer.
- The prototype website shall allow a logged-in **Manager** or employee to filter the displayed list of products supplied by a specific farmer according to the date range **And/Or** product type.

## **Developer Info**

Name: Sivan Moodley

Student number: ST10084225

Cell phone number: 0815750712

Email: [sivan.moodley02@gmail.com](mailto:sivan.moodley02@gmail.com)

## **Software Specs**

- 1.) Visual Studio 2022 Version 17.1.0
- 2.) Sublime Text Stable Channel, Build 4126
- 3.) GitHub Version 3.5.0
- 4.) Microsoft Office Pro 2019
- 5.) Adobe Photoshop 2022
- 6.) Google Chrome Version 113.0. 5672.64

## **F.A.Q**

- 1.) Which features can I access while signed in with a manager account?

~ The manager account of this site, has the ability to, Register a new farmer, Register a new employee, View all products on the site and search through them using different filters, View the products of a specific farmer and filter them by date and/or category, as well as delete any farmer's products.

- 2.) Which features can I access while signed in with an employee account?

~ The employee accounts of this site, has the ability to, Register a new farmer, View all products on the site and search through them using different filters, View the products of a specific farmer and filter them by date and/or category.

3.) Which features can I access while signed in with a farmer account?

~ The farmer accounts of this site, has the ability to, Add a new product to their account, View the products that this and only this account has uploaded to the site and search through them using different filters, Delete a product from their account.

4.) Which features can I access while signed in with a customer account?

~ The customer accounts of this site, has the ability to, View all products on the site and search through them using different filters.

5.) Which features can I access while not signed into an account?

~ The non-signed in users of this site, have the ability to, Register a new customer account, login to an existing account of any user role (provided you have the login details for them).

## **Code Attribution**

1.) Introduction to ASP.NET Identity: <https://learn.microsoft.com/en-us/aspnet/identity/overview/getting-started/introduction-to-aspnet-identity> (Accessed: 05/24/2023).

2.) How to use EF code first model: <https://www.entityframeworktutorial.net/code-first/what-is-code-first.aspx> (Accessed: 05/24/2023).

3.) Using LINQ to Entity queries: <https://www.entityframeworktutorial.net/queries/entitygraph-in-entity-framework.aspx> (Accessed: 05/24/2023).

4.) How to Read related data in ASP.NET Core: <https://learn.microsoft.com/en-us/aspnet/core/data/ef-rp/read-related-data?view=aspnetcore-7.0&tabs=visual-studio> (Accessed: 05/25/2023).

5.) Bootswatch Quarts: <https://bootswatch.com/quartz/> (Accessed: 05/25/2023).

## **Software Requirements**

- Visual Studio 2022 / 2019
- Google Chrome – Version 107.0. 5672.64 or newer
- SSMS (Microsoft SQL Server management Studio) – Version 18.11.1 or newer.

**Ensure that your SSMS connected database engine is (localdb)\MSSQLLocalDB .**



## Hardware Requirements

- 1.2 GHz or faster processor. Quad-core or better recommended.
- 2 GB of RAM; 8 GB of RAM recommended.
- Hard disk Space: Minimum of 600MB.

## How to Compile and Run the App in VS 2022

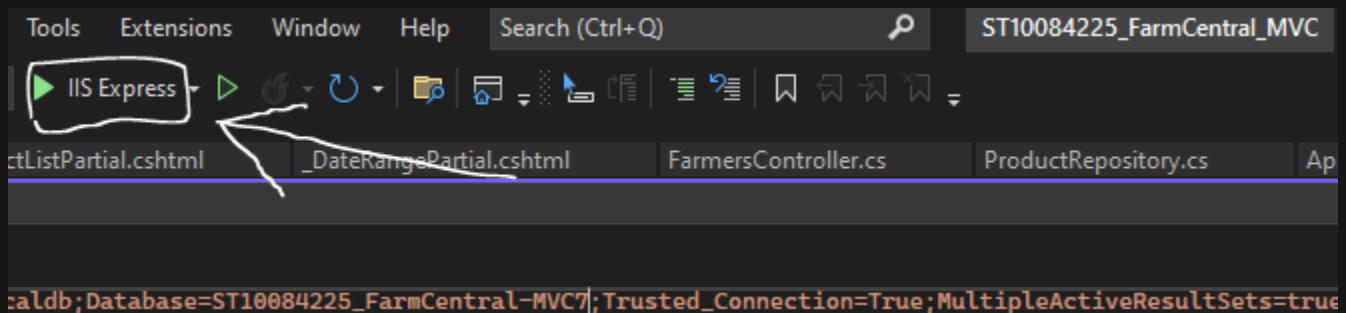
- 1.) Unzip the project file if necessary.
- 2.) Open the ST10084225\_FarmCentral\_MVC folder.

Name	Date modified	Type
ST10084225_FarmCentral_MVC	5/29/2023 1:37 PM	File folder

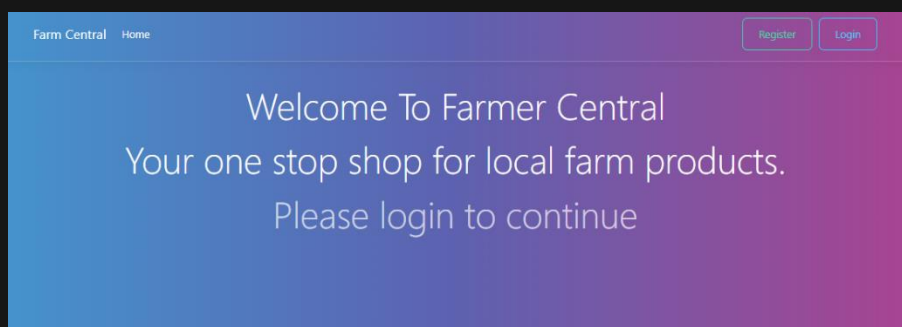
- 3.) Open the solution (.sln) file.

Program.cs	5/27/2023 11:35 AM	C# Source File
ScaffoldingReadMe	5/27/2023 11:50 AM	TXT File
ST10084225_FarmCentral_MVC.csproj	5/28/2023 10:23 PM	C# Project File
ST10084225_FarmCentral_MVC.csproj.user	5/28/2023 10:23 PM	Per-User Project Option...
ST10084225_FarmCentral_MVC.sln	5/27/2023 11:35 AM	Visual Studio Solution

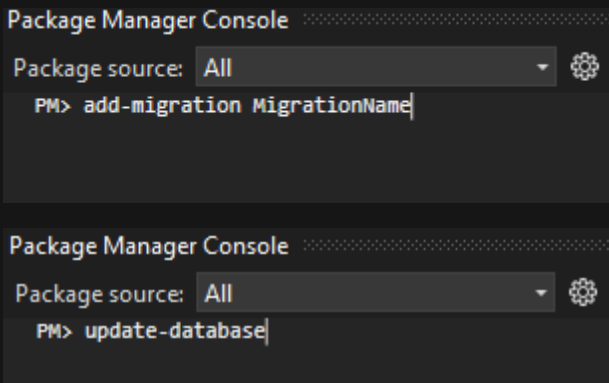
- 4.) Hit the Run button at the top of visual studio.



- 5.) If the website launches without error and allows you to login to/register an account (Your browser version is compatible with my auto-migrated EF Code First database), you may now proceed with Testing.



- 6.) If the website fails to launch or doesn't allow you to login to/register an account (Your browser version is incompatible with my auto-migrated EF Code First database), you will need to proceed through steps 7-9 before you begin Testing.
- 7.) Open the Package Manager console by clicking on Tools at the top of visual studio, Then NuGet Package Manager, then Package Manager Console.
- 8.) In the package manager type the following commands (one at a time, in this order) and hit enter, to create and update the database on your local machine.



- 9.) Hit the Run button at the top of visual studio. If the website launches and allows you to register a new user account without error, you may proceed with Testing, however if the website fails to load, or is not allowing the execution of database operations such as registering a new user, Please contact the developer of this website (contact details found in Developer Info section of document), as your browser or local DBMS may be incompatible with my code (Microsoft tools used only).

**Testing on next page**

## **Testing the app**

This app was designed with real world account authentication in mind, therefore there are many constraints put in place to ensure that users without the required authorization level (User Roles) can't access data they don't have permission to access.

This resulted in a system which needed seeded accounts with which to test the program with, you can find the login details for these accounts below:

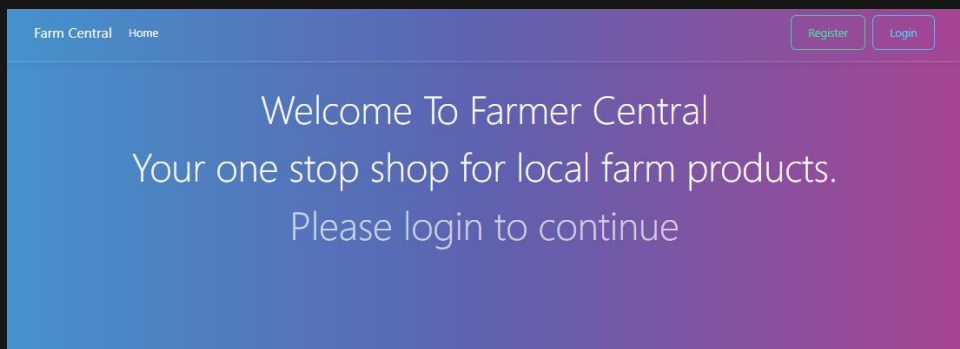
**Note: all of these login details are case-sensitive**

Manager Account:	Username: Manager1 Password: Test@123
Employee Account:	Username: Employee1 Password: Test@123
Farmer Account:	Username: Farmer1 Password: Test@123
Farmer Account:	Username: Customer1 Password: Test@123

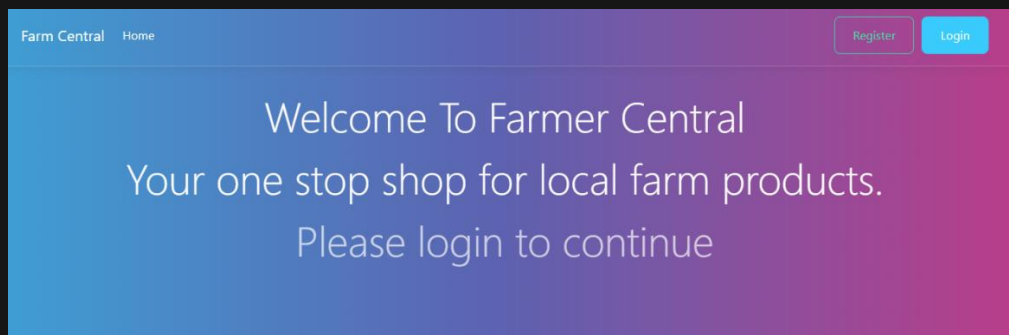
**Note: You may create your own custom accounts for any of these account types, but it must be done from an account with the required authorization level to do so ([See F.A.Q](#)).**

### ***Testing Methodology:***

1.)Launch the Website.

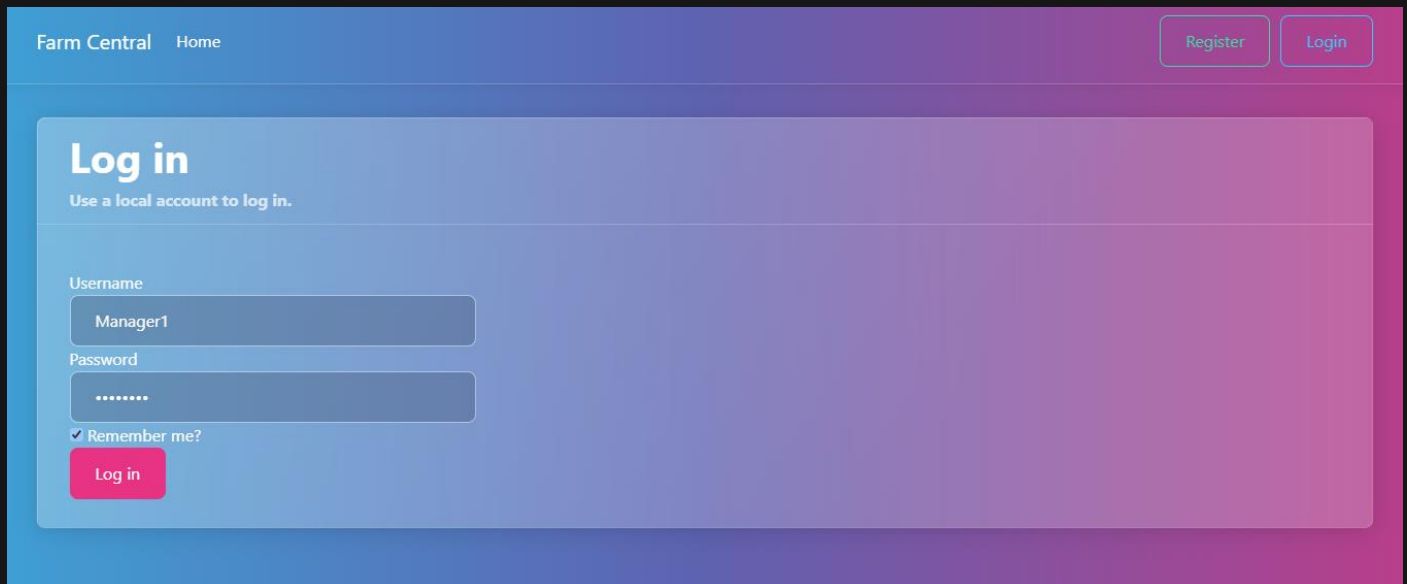


2.)Click the Login button in the top right corner of the screen.



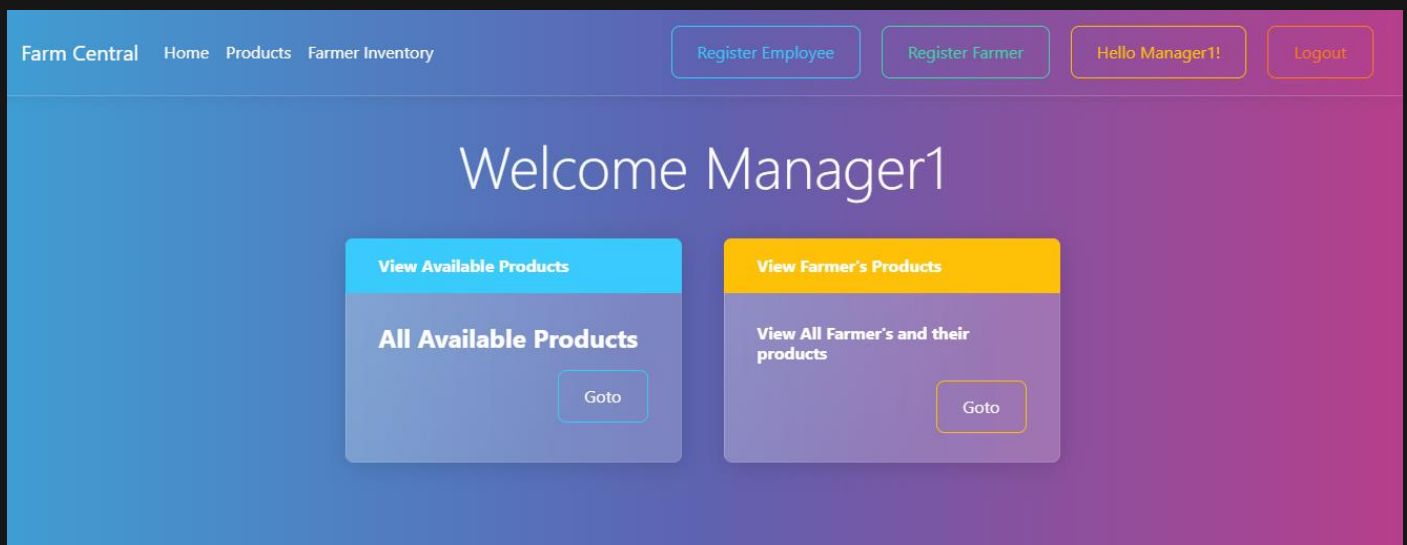


3.) Too login use the details of the account type you'd like to demo (E.g., Manager1).



The screenshot shows the 'Farm Central' login interface. At the top, there is a navigation bar with 'Farm Central' and 'Home' on the left, and 'Register' and 'Login' buttons on the right. The main content area is titled 'Log in' with the subtitle 'Use a local account to log in.' Below this, there are two input fields: 'Username' with the value 'Manager1' and 'Password' with masked characters '\*\*\*\*\*'. A checkbox labeled 'Remember me?' is checked. A red 'Log in' button is positioned below the password field.

4.) Once logged into the account type you'd like to demo, all features available to an account of its authorization level will now be accessible straight from the home screen and the navbar.



The screenshot shows the 'Farm Central' home page after logging in as 'Manager1'. The navigation bar now includes 'Farm Central', 'Home', 'Products', and 'Farmer Inventory' on the left, and 'Register Employee', 'Register Farmer', 'Hello Manager1!', and 'Logout' buttons on the right. The main content area features a large 'Welcome Manager1' greeting. Below the greeting, there are two cards. The first card, titled 'View Available Products', has a blue header and contains the text 'All Available Products' with a 'Goto' button. The second card, titled 'View Farmer's Products', has an orange header and contains the text 'View All Farmer's and their products' with a 'Goto' button.

5.) For a case-by-case testing basis of all the websites features for each user, I have uploaded a demo video to my GitHub (Links found in GitHub section of this document) along with my submission files, I hope this will make marking a little easier for who it may concern.

## **Support**

For support please email: [sivan.moodley02@gmail.com](mailto:sivan.moodley02@gmail.com)

If Urgent contact is needed, please phone me on my cell at: 0815750712

## **GitHub**

- 1.) GitHub POE Part 1 Repo: <https://github.com/VCWVL/prog7311---programming-3a---part-1-ST10084225>
- 2.) GitHub POE Part 2 Repo: <https://github.com/VCWVL/prog7311---programming-3a---part-2-ST10084225>

**Note:** No Kanban added, The VCWVL GitHub Classroom does not support GitHub projects, and therefore no Kanban diagram can be linked to my repos. This is definitely an issue to look into for next semester (hopefully).