

# ReadMe File

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BCA3 Group 2

Programming 3A

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## **The Wood Brick n' Motar Web Application**

### **Version 1.0**

#### **Description**

A comprehensive web-based solution called Wood Stock Manager is made to track wood stock inventory effectively, including incoming and exiting stock, and to ensure seamless association with the relevant farmers. By offering a user-friendly interface and potent tools for real-time monitoring and control, this platform makes management easier. This simplified strategy boosts communication and operational effectiveness.

#### **A guide to installation**

- \*No installation is required for this program
- \*Program runs from a GUI environment
- \*The project can be built by choosing to build from the build menu. The output pane will then display the output where compilation will take place.
- \*To run the code, begin with debugging. A GUI window shall then appear, displaying the introduction of the Wood Store app with a login page to begin the app
- \*Or-. Open the StoreProjOne folder/, Open the bin folder found in the StoeProjOne folder/, Open the debug folder found in the bin folder/Open the StoreProjOne – type: Application
- \*Visual studio is required to run this app.
- \*Open the file containing the program, go to the bin folder, and then open debug, then run the application file

#### **About of the program**

- \*This program is coded using multiple pages. These include the Categories and Farmers and Woods pages which include CRUD razor pages and a model folder which includes Wood.cs and Farmers.cs and Categories.cs classes.
- \*For each of these classes, a page is designed, to allow the user to visually interact
- \*This program also contains a controller that include methods for the different functionalities of the application.
- \*The create and edit razor views allow the user to input personalized data.
- \*Tables, buttons, textboxes, and labels have been used to design the interface as well as css.cs and stylesheets.
- \* User data can be stored in the software between runs. The data be kept in memory and will be shown according to a specific user.
- \* To manipulate the data, LINQ is used.
- \*The data is stored in a SQL database by the software.
- \*The user can sign up and login using an email and password.

- \* The database only contains the password, according to the software.
- \*The user's login and password must be used to access the software.
- \*The user can never see the data of other users and can only view their own data.
- \*Exception handling to allow the program not to function without crashing in the case of the user entering a foreign entry.
- \*The website makes it possible to keep track of your wood supply accurately. You may enter the number, type, and other pertinent information about products that come in and leave out.
- \*Each piece of wood is connected to its corresponding farmer, making it simple to determine who owns what and promoting efficient collaboration and communication.
- \*Users can use search and filter functions to look for products using criteria like farmer name, stock kind, date, or quantity. The search capabilities are further improved by advanced filters and sorting options.
- \*The website provides role-based access control, which enables administrators to grant users access at various levels according to their roles and responsibilities.
- \*Scalability and Integration: The system is built to integrate with current databases and tools, allowing for easy data synchronization. To meet the expanding demands of managing wood stock, it is also expandable.

### **Test Credentials**

**Employee login credentials** - (Consider Employee to be admin). We do not provide the functionality of creating admin from the register , to prevent just anyone from being admin.

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Email: employee@gmail.com

Password: Employee!3

### **Farmer 1 login credentials**

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Email: farmerone@gmail.com

Password: Farmer01!

### **Farmer 2 login credentials**

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Email: farmertwo@gmail.com

Password: Farmer02!

### **Farmer 3 login creditials**

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Email: farmerthree@gmail.com

Password: Farmer03!

### **server name**

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(localdb)\mssqllocaldb

### **database name**

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BrickMotarTwo

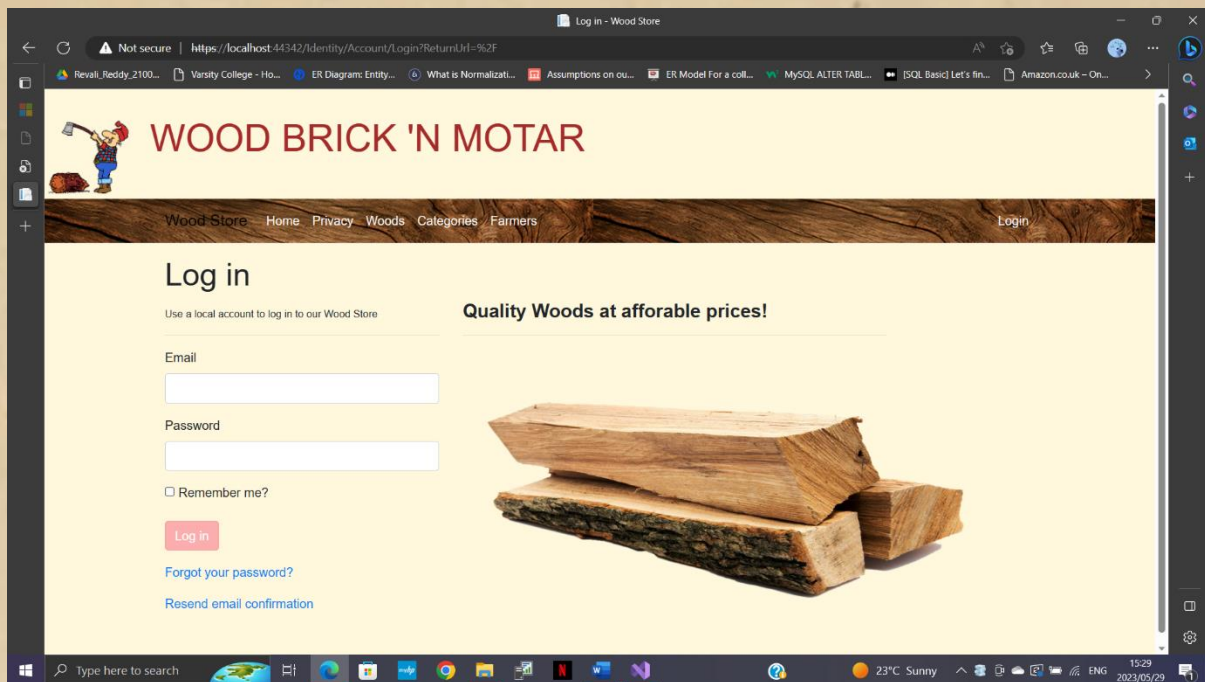
### **Connection String**

-----

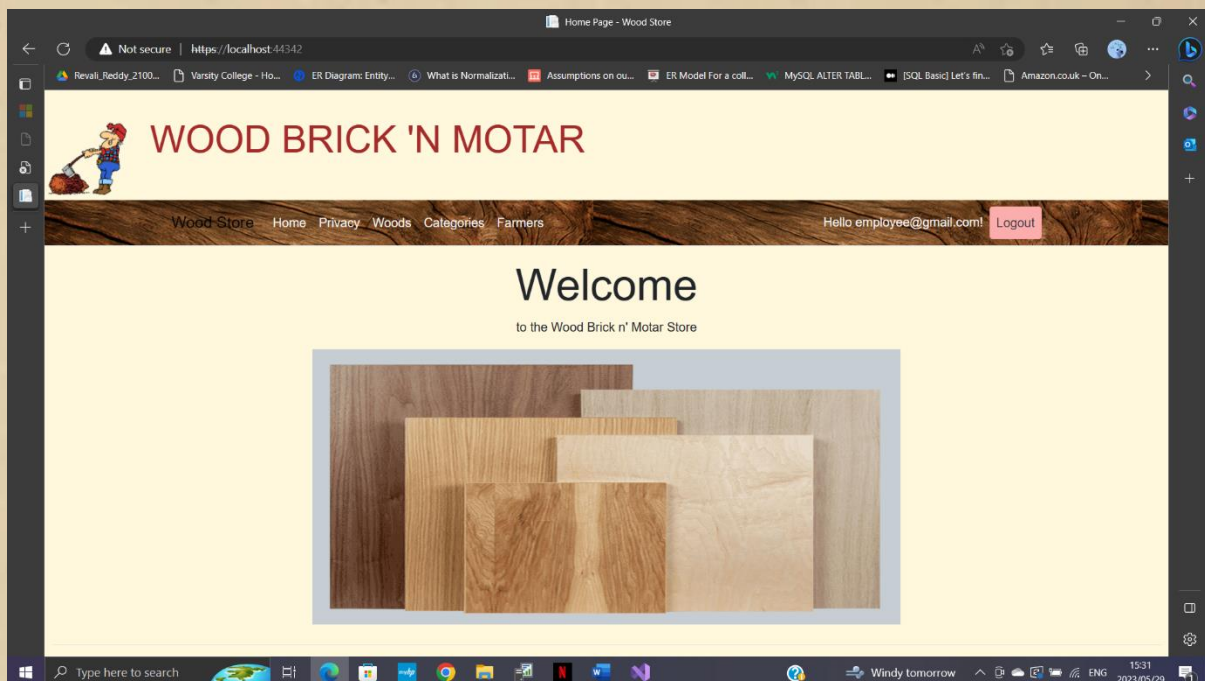
"Server=(localdb)\mssqllocaldb; Database=BrickMotarTwo; Trusted\_Connection = True; MultipleActiveResultSets = true"



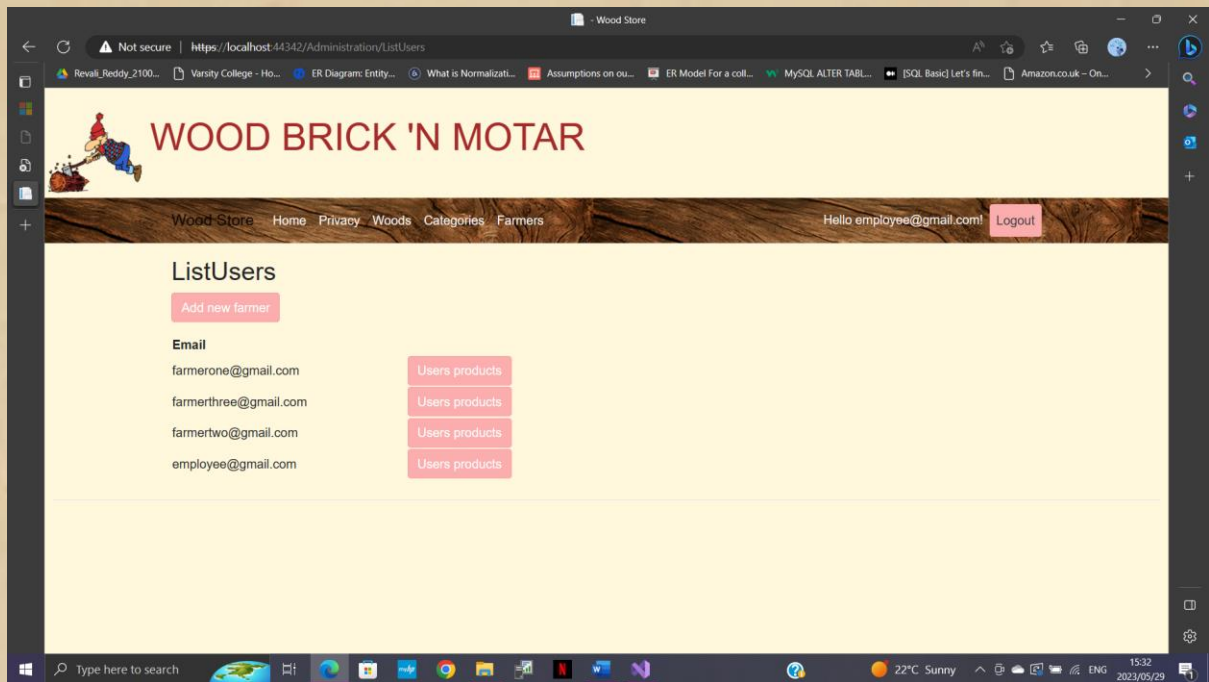
## Usability



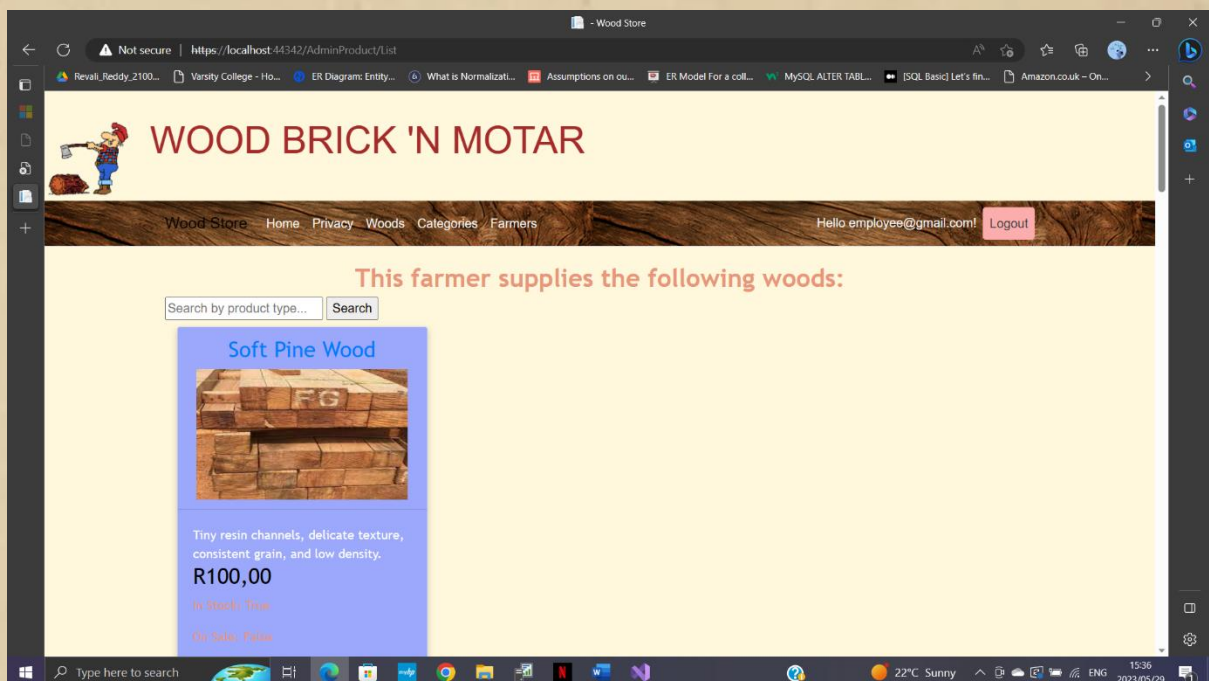
**Screenshot 1:** This is the login page that allows any registered users to login into the website depending on their granted roles.



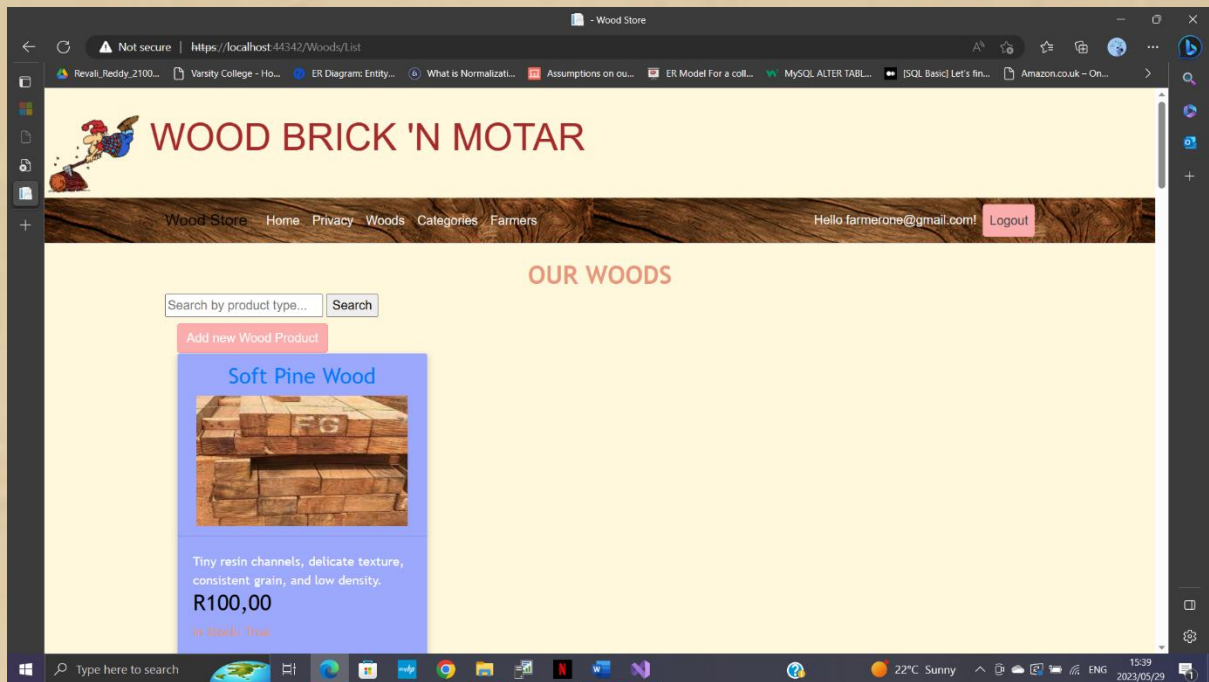
**Screenshot 2:** This is the dashboard that is visible to all users.



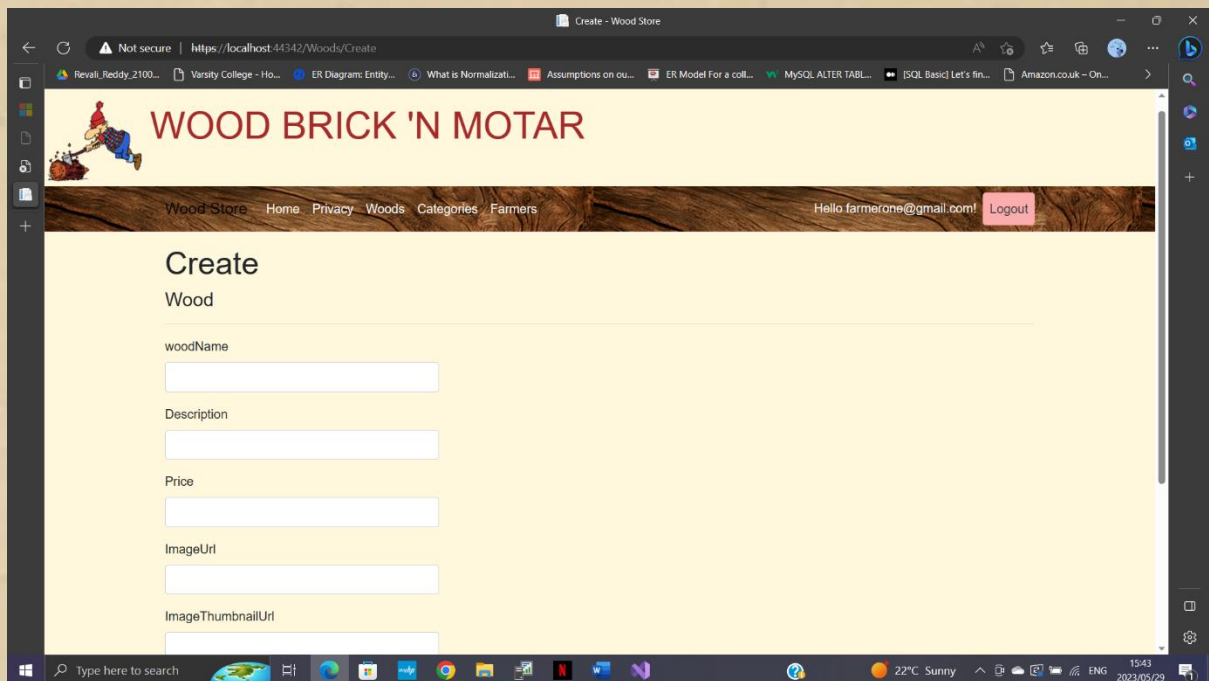
**Screenshot 3:** This page is only visible to the registered Employee (Admin) account. It allows the employee to add/create/register new farmers which is stored in the database. If the Employee clicks on the "Users details" button they will be able to view the specific farmers products.



**Screenshot 4:** In this page the employee will be able to search / filter according to categories.

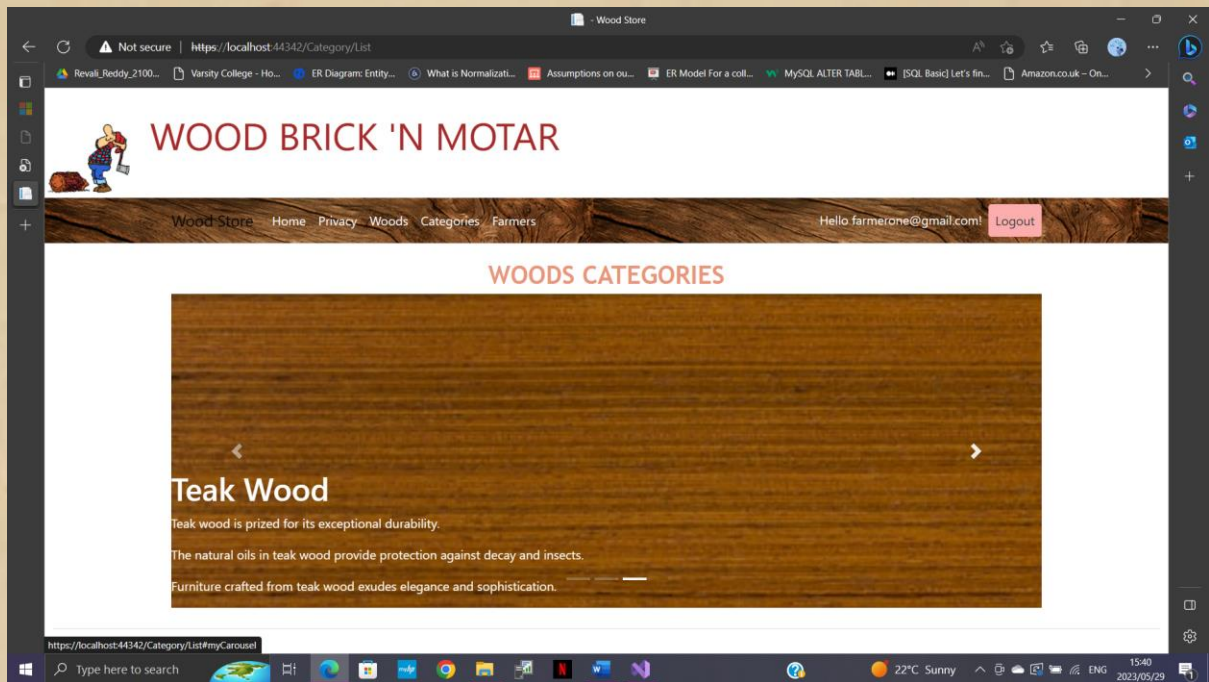


**Screenshot 4:** This page is only visible to the logged in farmer, who will see specific wood products entered by the farmer.



**Screenshot 5:** In this page the logged in employee can add a new product to the profile.





**Screenshot 6:** This is the categories page only visible to the logged in farmer, it utilized a carousel to make it more visually appealing.

### Troubleshooting

\*If the application fails to build there are two possible ways to get it to function

- restart the program

- Open the project file and delete the bin and obj folders. Then open the project again and rebuild program.

### Requirements/Technical specifications

\*This program is built to run on Windows

\*Program is coded in c# html.

\*Interface designed with cshtml

\*The database is updated using migrations - 20230528234440\_first.cs

\*Application uses entity models

\*SSMS to view database – local db

### Technology used in this application.

\*The software used to build this application is Visual Studio 2022.

\*ASP.NET core – with CRUD razor views

## \*Plugins

### Description of the user interface

\*This program is an interactive graphical user interface

\*Opens with a user-friendly dashboard, provided the user is logged in

\*Simple 'logout' button to end application

### Websites used to build this application.

*dotnet-bot (n.d.). DbContext Class (System.Data.Entity). [online] learn.microsoft.com. Available at: <https://learn.microsoft.com/en-us/dotnet/api/system.data.entity.dbcontext?view=entity-framework-6.2.0#:~:text=A%20DbContext%20instance%20represents%20a> [Accessed 29 May 2023].*

*www.youtube.com. (n.d.). C# MVC CRUD Tutorial | Asp.net MVC Full CRUD Operation Using Entity Framework | Simplilearn. [online] Available at: <https://www.youtube.com/watch?v=xFeDCD4si3U> [Accessed 29 May 2023].*

*www.youtube.com. (n.d.). Card Layout - How to use dynamic card in ASP.NET. [online] Available at: <https://www.youtube.com/watch?v=QPGVyJz0J44> [Accessed 29 May 2023].*

*www.youtube.com. (n.d.). How to create Dynamic slider in Asp.net [Using Bootstrap Carousel]. [online] Available at: <https://www.youtube.com/watch?v=U5anLmdMEbl> [Accessed 29 May 2023].*

*www.youtube.com. (n.d.). List view in asp net core mvc. [online] Available at: <https://www.youtube.com/watch?v=nHAMDUtiV6w> [Accessed 29 May 2023].*

*www.youtube.com. (n.d.). Seed Users and Roles using EF Code First approach in ASP.NET Razor Pages. [online] Available at: <https://www.youtube.com/watch?v=wiRRyQOYMHU> [Accessed 29 May 2023].*

*Chris Mantle (23 June 2014) [blog]|Pulling objects from a collection that satisfies a condition|Available: <https://stackoverflow.com/questions/24356861/pulling-objects-from-a-collection-that-satisfies-a-condition>.*

*-w3School[online]|C# Method Parameters|Available: [https://www.w3schools.com/cs/cs\\_method\\_parameters.php](https://www.w3schools.com/cs/cs_method_parameters.php)*

*-<https://stackoverflow.com/questions/33698676/classes-and-base-class-inheritance-in-c-sharp>*

*-<https://stackoverflow.com/questions/2963742/empty-constructor-or-no-constructor>*

*-Maduri P [blog] (8 May 2017) |Navigational panel|Available:<https://www.c-sharpcorner.com/blogs/top-navigation-bar-using-xaml>*

### **Known bugs.**

- \*There are currently no bugs in this program
- \*Program runs efficiently on any browser and device

### **Project status**

- \*This program is in its final stage of development and is in a GUI environment, where users will be able to interact with it in a graphical environment.
- \*It is built in ASP.NET core Web Application (Model-View-Controller)

### **License**

- \*MIT license

### **Developer Information**

- \*Name: Revali Reddy
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- \*Tertiary education:
  - Varsity College: 3rd year Bachelor of Computer Science in applications development [2023]
  - GitHub profile: revalireddy
- \*Email: st10084347@gmail.com

### **FAQ**

Q: Is it possible to leave some textboxes incomplete?

\*No, the program will not crash if textboxes are left incomplete. The user will be alerted to fill in incomplete textboxes. This can be considered as exception handling – good coding practice.

Q: Can farmers register themselves?

\*No, this is a security measure to prevent just anyone from creating an account and accessing different roles.

Q: Will the program handle users?

\*Yes, the program users a list that will allow the number of registered users to increase with no limitations

Q: Can a farmer add new products?

\*Yes, A farmer add new products to the database that will be specific to their registered account

Q: Can I go back to the dashboard

A: Yes, the user can simply click on the "Home" link

Q: Will I be able to access the system without creating an account?

A: No, the system requires the user to create account so that personalized results can be produced to each individual user

Q: How do I see the details of the products?

A: The user is required to click on the "details" button and then see all details of products

### **GitHub Links**

Repository link: <https://github.com/revalireddy/FarmerProject.git>

Kanban link: <https://github.com/users/revalireddy/projects/3>