ST10117268

FarmCentral Web App Prototype

README DOCCUMENT

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What is the FarmCentral Web App Prototype?

This project is named "FarmCentral" it is a **prototype** stock management web application built to track incoming and outgoing stock and which farmer the stock belongs to. The application stores user data in an SQL database and allows Employees and Farmers to log in and manage their inventories and products. Passwords act as a form of data security and allow a logged in Farmer to view only their own stored data and not that of another Farmer whereas Employees can view the stored data of any Farmer. Employees are not able to add new Employees but can add new Farmers to the Database.

When a Farmer logs in to the application they can add new Products and their Price, Description, Units, product Type and Date they are adding them on. When an Employee logs in to the application they can add new Farmers and filter Products by the Farmer who has added them or by the Type of Product.

How to Run the Application

To run the Web Application you need to have Microsoft Visual Studio Code and Microsoft SQL Server installed on your PC or Laptop.

<u>Running the Web App:</u>

1. To run the application which is published to the azure portal can be accessed: https://st10117268prog7311task220220618042029.azurewebsites.net/UsersProducts/PickFarmer

Database Script

Below is the SQL structure of the Database:

```sql
CREATE TABLE Users
(
userID INT PRIMARY KEY IDENTITY NOT NULL,
name VARCHAR(100) NOT NULL,
surname VARCHAR(100) NOT NULL,
email VARCHAR(100) NOT NULL,
password VARCHAR(100) NOT NULL,
role VARCHAR(25) NOT NULL
);

CREATE TABLE Product
(
productID INT PRIMARY KEY IDENTITY NOT NULL,
product_name VARCHAR(50)
);

CREATE TABLE Product_Type
(
productTypeID INT PRIMARY KEY IDENTITY NOT NULL,
productType VARCHAR(50) NOT NULL,
);

CREATE TABLE Users_Product
(
usersProductID INT PRIMARY KEY IDENTITY NOT NULL,
userID  INT  NOT NULL,
productID INT NOT NULL,
productTypeID  INT NOT NULL,
quantity INT,
product_type VARCHAR(50) NOT NULL,
product_date DATE NOT NULL,
FOREIGN KEY (userID) REFERENCES Users (userID),
FOREIGN KEY (productID) REFERENCES Product (productID),
FOREIGN KEY (productTypeID) REFERENCES Product_Type (productTypeID)
);
```

Roadmap

In future releases the web application will be updated to feature a more attractive and user friendly interface. Security will be improved by preventing users from accessing off limits data through the URL and through the inspect element feature in web browsers.

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