



AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)

**Dept. of Computer Science
Faculty of Science and Technology**

CSC2210: OBJECT ORIENTED PROGRAMMING 2

Fall 2025-2026

Section: [G]

Group No: 09

Project Report On

Project name [Farm Invoice Manager]

Supervised By

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Obtained Marks for CO2 and CO3 (Description given in the following page)					
Assessment Criteria	Not Attended/ Incorrect (0)	Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)
Evaluation Criteria (CO2)	Total =		Evaluation Criteria (CO3)		Total =
Requirement fulfillment			Organization of the application		
Validation			Representation and Integration of Database		
Verification			Graphical User Interface		

CO2: Display and verify the mean of a real-life Project using the concepts of C# Graphical User Interface based environment with database integration to depict a desktop-based application.					
Assessment Criteria	Not Attended/ Incorrect (0)	Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)
Evaluation Criteria	Evaluation Definition				
Requirement fulfillment	Fails to demonstrate any understanding of real-life scenario-based project development or functional requirement identification. There is no attempt to depict a project or identify functional requirements accurately.	Demonstrates limited understanding of real-life scenario-based project development and functional requirement identification. The project depicted lacks coherence or relevance to real-life scenarios, and functional requirements are inaccurately identified or insufficiently described.	Presents a basic depiction of a real-life scenario-based project and identifies some functional requirements. However, the project lacks depth or complexity, and some functional requirements may be vaguely defined or missing key details.	Effectively demonstrates a realistic scenario-based project and accurately identifies most functional requirements. The project is well-developed with appropriate complexity, and functional requirements are clearly articulated with relevant details.	Exhibits an exceptional understanding of real-life scenario-based project development and accurately identifies all functional requirements. The project is meticulously developed with thorough attention to detail, reflecting a comprehensive understanding of Object-Oriented Programming project development activities.
Validation	Fails to demonstrate any understanding or implementation of validation forms in their system. There is no attempt to deal with data validation, and validation requirements are completely	Demonstrates limited understanding of validation forms and data validation techniques. While some attempt may be made to implement validation, it is incomplete or poorly executed, leading to	Shows a basic understanding of validation forms and data validation techniques. They attempt to implement validation, but some aspects may be missing or incorrectly implemented, resulting	Effectively demonstrates the use of validation forms and implements data validation techniques. Validation is mostly accurate and comprehensive, ensuring the proper handling of data input and verification	Exhibits an exceptional understanding and implementation of validation forms and data validation techniques. Validation is meticulously implemented with thorough attention to detail, ensuring robust data

	ignored or incorrectly applied.	inadequate handling of data validation.	in partial or inconsistent handling of data validation.	in the system.	validation procedures and contributing to the overall reliability and integrity of the system.
Verificati on	Fails to demonstrate any attempt to verify the system data or functional requirements . There is no evidence of understanding or implementation of verification processes, and data flow is not considered.	Demonstrates limited understanding of verification processes and data flow in the system. Verification attempts are incomplete or inaccurate, and there is insufficient consideration given to ensuring data integrity and functionality.	Shows a basic understanding of verification processes and attempts to verify system data. However, verification efforts may be inconsistent or lack thoroughness, and there may be gaps in ensuring proper functional requirements and data flow.	Identifies and verifies system data, ensuring proper functional requirements are met. Verification efforts are mostly accurate and thorough, with attention to ensuring data integrity and appropriate data flow within the system.	Exhibits an exceptional understanding of verification processes and meticulously verifies system data. Verification efforts are comprehensive and precise, with a keen focus on ensuring all functional requirements are met and maintaining proper data flow throughout the system.

CO3: Prepare and Explain a real life desktop based application synthesizing several component of C# along with development tools to adhere the given requirements.

Assessment Criteria	Not Attended/ Incorrect (0)	Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)
Evaluation Criteria	Evaluation Definition				
Organization of the application	Fails to identify any suitable real time application or requirements for project development activities related to OOP.	Limited understanding about the project scopes and scenarios or identification of functional requirements.	Lacks depth or relevance to OOP project development activities and may contain inaccuracies. Real-life scenarios are mentioned, but the discussion lacks depth or clarity.	Consider and integrate the idea of several core aspects of the project along with relevance to real-life scenarios. Demonstrating a solid understanding of the application presentation.	Generalize and exhibits an exceptional understanding of project preparation according to a to real-life scenarios. Also contains proper and insightful identification of the system which is comprehensive and precise.
Representation and Integration of Database	Fails to identify and present any understanding or implementation of database. Also failed to integrate the data with the project itself.	Limited understanding of the database concepts or their proper way of using in a real time project. While some attempt may be made to implement but it is incomplete or poorly executed, leading to inadequate design.	Lacks depth or relevance to database integration with the application. Shows a basic understanding but some aspects may be missing or incorrectly implemented, resulting in partial or inconsistency. May lack proper normalization.	Integrate the database with the forms properly and implements it with proper validation which is mostly accurate and comprehensive, ensuring the proper handling of data input and verification along with general normalization.	Exhibits an exceptional understanding and implementation of database ensuring attention to detail, and robust data manipulation procedures and contributing to the overall clarity.
Graphical User Interface	Fails to present or prepare GUI based application interfaces. There is no evidence of creating or integrating such things according to their usefulness.	Limited understanding of graphical user interfaces. Lack of design knowledge. Very poor attempt to make such things which are currently obsolete or can't be identified as coherent.	Shows a basic understanding of creating user interfaces. Most of them are interconnected but maybe some of them lack it. However, most of it can be described as user friendly.	Effectively identifies and meet the consider the simplicity. Design related works are mostly accurate and taken proper attention to ensuring a user-friendly coherent system.	Exhibits an exceptional work design following a high standard of simple and elegant work. Several controls and mechanism has been organized in a preferred way according to the coherent usage .

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Chapter 01: Introduction

The **Farm Invoice Manager – Billing Management System** is a desktop-based application developed using **C# Windows Forms** and **SQL Server** to efficiently manage billing, sales, products, customers, and users in a farm-based business environment. The primary goal of this system is to simplify and automate the manual invoice and sales management process, reducing errors and improving productivity. This system provides a **secure login mechanism** with role-based access for **Admin and Employee**, ensuring proper data security and controlled access. Admin users can manage products, users, customers, memberships, and generate sales reports, while employees can perform sales operations and view necessary information based on their permissions. The application supports complete **product management, customer management, invoice generation, sales reporting, and printable invoices**. Features such as **password recovery, username and password reset, premium membership handling, date-wise sales reports, and graphical sales analysis** enhance usability and decision-making. With a user-friendly interface and structured data handling, the Farm Invoice Manager helps farm businesses maintain accurate records, track inventory, manage customers, and generate reliable financial reports. Overall, this project demonstrates effective use of object-oriented programming, database connectivity, and real-world business logic implementation in a desktop application.

Chapter 02: User Story

The **Farm Invoice Manager – Billing Management System** is designed with two essential user roles in mind: **Admin** and **Employee**. Each role has specific responsibilities and access permissions to ensure smooth, secure, and efficient management of farm billing and sales operations. Below is a brief overview of how each user interacts with the system.

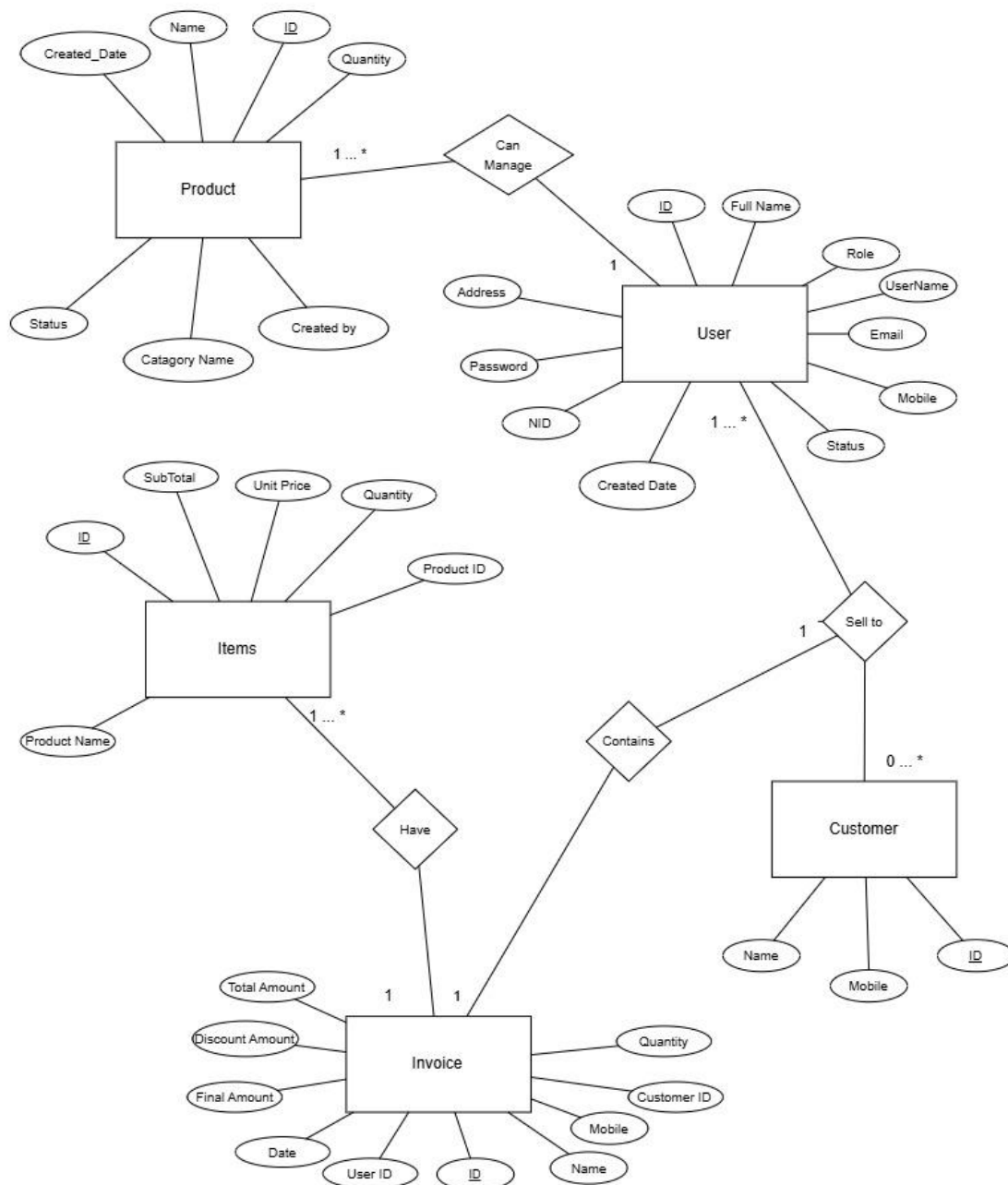
As an Admin

- Log in securely to the admin dashboard using valid credentials.
- Add, update, or remove system users and manage their personal and login information.
- Add new farm products, update product details such as name, category, stock, and unit price, and remove unavailable products.
- Manage customer information, including customer name and mobile number.
- Identify and manage premium members for special benefits or discounts.
- Monitor and manage all sales transactions and invoices.
- Generate, view, and print invoices for customers.
- View sales reports with date-wise summaries and graphical representations.
- Review and update product lists, customer records, user data, and sales information.
- Reset usernames and passwords to maintain system security.
- Log out safely to protect system data.

As an Employee

- Log in securely to the employee dashboard using authorized credentials.
- View personal information and account details.
- Add customer information during sales transactions.
- Create sales invoices by selecting products and entering quantities.
- View daily and previous sales reports as permitted.
- Print invoices for customers when required.
- Reset own username and password for security purposes.
- Log out safely after completing work.

Chapter 03a: ER Diagram



Explanation of Entities and Relationships:

UserInfo (Stores user information)

- USER_ID (Primary Key)
- ROLE (Admin / Employee)
- FULL_NAME
- USERNAME (Unique)
- EMAIL (Unique)
- MOBILE (Unique)
- PASSWORD
- NID (Unique)
- ADDRESS
- CREATED_DATE
- STATUS (Active / Inactive)

CustomerInfo (Stores customer details)

- CUSTOMER_ID (Primary Key)
- CUSTOMER_NAME
- CUSTOMER_MOBILE (Unique recommended)

ProductInfo (Stores product and inventory details)

- PRODUCT_ID (Primary Key)
- PRODUCT_NAME
- QUANTITY (Stock)
- CATEGORY_NAME
- UNITPRICE
- CREATED_DATE
- IS_AVAILABLE
- CREATED_BY_USER_ID (Foreign Key)

Invoice (Stores invoice billing details)

- INVOICE_ID (Primary Key)
- USER_ID (Foreign Key)
- CUSTOMER_ID (Foreign Key)
- CUSTOMER_NAME (Stored for quick display)
- CUSTOMER_MOBILE (Stored for quick display)
- TOTAL_AMOUNT
- DISCOUNT_AMOUNT
- FINAL_AMOUNT
- INVOICE_DATE

InvoiceItems (Stores invoice item details)

- INVOICE_ITEM_ID (Primary Key)
- INVOICE_ID (Foreign Key)
- PRODUCT_ID (Foreign Key)
- PRODUCT_NAME
- QUANTITY
- UNIT_PRICE
- SUB_TOTAL

Chapter: 03b – SQL Queries

1. Database Creation

The database is created to store all information related to users, customers, products, invoices, and sales records.

Database Name: FarmInvoiceManager

This database serves as the central storage system for the entire application.

2. Table Creation

Several tables are created to define the structure of the database. These tables represent the core entities of the Farm Invoice Manager system, including:

- **UserInfo** – stores admin and employee information
- **CustomerInfo** – stores customer details
- **ProductInfo** – stores product information
- **InvoiceDetails** – stores invoice summary data
- **InvoiceItems** – stores item-wise invoice details

3. Insert Queries (Create Operation)

Insert queries are used to add new records into the database. Examples include:

- Adding new users (Admin / Employee)
- Adding customers
- Adding products
- Creating invoices and invoice items

4. Select Queries (Read Operation)

Select queries are used to retrieve data from the database for display and reporting purposes. They are used to:

- Show user lists
- Display customer information
- Load product lists
- Generate invoices
- View sales reports

5. Update Queries (Update Operation)

Update queries are used to modify existing records in the database. They are mainly used for:

- Updating user information
- Updating product details
- Resetting username or password
- Updating invoice or stock data

6. Delete Queries (Delete Operation)

Delete queries are used to remove unwanted or obsolete records from the database. Examples include:

- Deleting users
- Deleting products
- Deleting customers
- Deleting invoices and invoice items

```
CREATE TABLE [dbo].[UserInfo] (  
    [USER_ID] NVARCHAR(10) NOT NULL,  
    [ROLE] NVARCHAR(10) NOT NULL,  
    [FULL_NAME] NVARCHAR(50) NOT NULL,  
    [USERNAME] NVARCHAR(50) NOT NULL,  
    [EMAIL] NVARCHAR(50) NOT NULL,  
    [MOBILE] NVARCHAR(20) NOT NULL,  
    [PASSWORD] NVARCHAR(50) NOT NULL,  
    [NID] NVARCHAR(20) NOT NULL,  
    [ADDRESS] NVARCHAR(50) NOT NULL,  
    [CREATED_DATE] DATE NOT NULL,  
    [STATUS] BIT NOT NULL,  
    CONSTRAINT [PK_UserInfo] PRIMARY KEY CLUSTERED ([USER_ID] ASC)  
);
```

```
CREATE TABLE dbo.CustomerInfo (  
    CUSTOMER_ID NVARCHAR(10) NOT NULL PRIMARY KEY,  
    CUSTOMER_NAME NVARCHAR(50) NOT NULL,  
    CUSTOMER_MOBILE NVARCHAR(20) NOT NULL  
);
```

```
CREATE TABLE [dbo].[ProductInfo] (  
    [PRODUCT_ID] NVARCHAR(10) NOT NULL PRIMARY KEY,  
    [PRODUCT_NAME] NVARCHAR(50) NOT NULL,  
    [QUANTITY] INT NOT NULL,  
    [CATEGORY_NAME] NVARCHAR(50) NOT NULL,  
    [UNITPRICE] FLOAT NOT NULL,  
    [CREATED_DATE] DATE NOT NULL,  
    [IS_AVAILABLE] BIT NOT NULL,  
    [CREATED_BY_USER_ID] NVARCHAR(10) NOT NULL,  
    FOREIGN KEY ([CREATED_BY_USER_ID]) REFERENCES [dbo].[UserInfo]([USER_ID])  
);
```

```
CREATE TABLE dbo.InvoiceItems (  
    INVOICE_ITEM_ID INT IDENTITY(1,1) PRIMARY KEY,  
    INVOICE_ID NVARCHAR(10) NOT NULL,  
    PRODUCT_ID NVARCHAR(10) NOT NULL,  
    PRODUCT_NAME NVARCHAR(100) NOT NULL,  
    QUANTITY INT NOT NULL,  
    UNIT_PRICE DECIMAL(10,2) NOT NULL,  
    SUB_TOTAL DECIMAL(10,2) NOT NULL,  
    CONSTRAINT FK_InvoiceItems_ProductInfo  
        FOREIGN KEY (PRODUCT_ID) REFERENCES dbo.ProductInfo(PRODUCT_ID)
```

);

```
CREATE TABLE dbo.InvoiceDetails (  
    INVOICE_ID NVARCHAR(10) NOT NULL PRIMARY KEY,  
    USER_ID NVARCHAR(10) NOT NULL,  
    CUSTOMER_ID NVARCHAR(10) NOT NULL,  
    CUSTOMER_NAME NVARCHAR(50) NOT NULL,  
    CUSTOMER_MOBILE NVARCHAR(20) NOT NULL,  
    TOTAL_AMOUNT DECIMAL(10,2) NOT NULL,  
    DISCOUNT_AMOUNT DECIMAL(10,2) NOT NULL,  
    FINAL_AMOUNT DECIMAL(10,2) NOT NULL,  
    INVOICE_DATE DATE NOT NULL,  
    FOREIGN KEY (USER_ID) REFERENCES dbo.UserInfo(USER_ID)  
);
```

FormLogin

```
string query = $"SELECT USER_ID, FULL_NAME, ROLE, STATUS  
FROM UserInfo  
WHERE (USERNAME = '{username}' OR USER_ID = '{username}')
```

AND PASSWORD = '{password}'";

FormAddCustomer

```
SELECT MAX(CUSTOMER_ID) FROM CustomerInfo;
```

```
INSERT INTO CustomerInfo (CUSTOMER_ID, CUSTOMER_NAME,  
CUSTOMER_MOBILE)  
VALUES ('{newCustomerId}', '{this.txtCustomerName.Text}', '{this.txtMobile.Text}');
```

FormAddProduct

```
SELECT ISNULL(MAX(CAST(SUBSTRING(PRODUCT_ID,5,10) AS INT)),0) FROM  
ProductInfo
```

```
INSERT INTO ProductInfo (PRODUCT_ID, PRODUCT_NAME, QUANTITY,  
CATEGORY_NAME, UNITPRICE, CREATED_DATE, IS_AVAILABLE,  
CREATED_BY_USER_ID)  
VALUES (@ID, @NAME, @QTY, @CAT, @PRICE, @DATE, @STATUS,  
@CREATED_BY_USER_ID)
```

FormAddSales

```
SELECT UNITPRICE, QUANTITY FROM ProductInfo WHERE PRODUCT_ID =  
'{cmbProduct.SelectedValue}';
```

```
SELECT PRODUCT_ID, PRODUCT_NAME, UNITPRICE, QUANTITY, CREATED_DATE  
FROM ProductInfo WHERE PRODUCT_ID = '{productId}';
```

```
SELECT PRODUCT_ID, PRODUCT_NAME, IS_AVAILABLE FROM ProductInfo WHERE  
IS_AVAILABLE = 1;
```

```
SELECT CUSTOMER_ID, CUSTOMER_MOBILE FROM CustomerInfo;
```

```
SELECT CUSTOMER_NAME FROM CustomerInfo WHERE CUSTOMER_MOBILE = '{cmbNumber.Text.Trim()}';
```

```
INSERT INTO InvoiceDetails (INVOICE_ID, USER_ID, CUSTOMER_ID, CUSTOMER_NAME, CUSTOMER_MOBILE, TOTAL_AMOUNT, DISCOUNT_AMOUNT, FINAL_AMOUNT, INVOICE_DATE) VALUES (...)
```

```
INSERT INTO InvoiceItems (INVOICE_ID, PRODUCT_ID, PRODUCT_NAME, QUANTITY, UNIT_PRICE, SUB_TOTAL) VALUES (...)
```

```
UPDATE ProductInfo SET QUANTITY = QUANTITY - {soldQuantity} WHERE PRODUCT_ID = '{productId}';
```

FormAddUser

```
SELECT ISNULL(MAX(CAST(SUBSTRING(USER_ID,3,10) AS INT)),0) FROM UserInfo WHERE USER_ID LIKE '[AE]-%'
```

```
INSERT INTO dbo.UserInfo (USER_ID, ROLE, FULL_NAME, USERNAME, EMAIL, MOBILE, PASSWORD, NID, ADDRESS, CREATED_DATE, STATUS) VALUES (@USER_ID, @ROLE, @FULL_NAME, @USERNAME, @EMAIL, @MOBILE, @PASSWORD, @NID, @ADDRESS, CAST(GETDATE() AS DATE), @STATUS)
```

FormAdminView

```
SELECT * FROM UserInfo;
```

```
SELECT * FROM CustomerInfo;
```

```
DELETE FROM UserInfo WHERE USER_ID = 'userId';  
SELECT * FROM UserInfo WHERE FULL_NAME LIKE '%searchText%' OR USERNAME LIKE '%searchText%' OR USER_ID LIKE '%searchText%' ORDER BY USER_ID;
```

```
SELECT * FROM UserInfo WHERE USER_ID = 'adminUserID';
```

```
DELETE FROM CustomerInfo WHERE CUSTOMER_ID = 'customerId';
```

```
SELECT * FROM CustomerInfo WHERE CUSTOMER_MOBILE LIKE '%searchText%' ORDER BY CUSTOMER_ID;
```

FormEditUser

```
SELECT *  
FROM UserInfo  
WHERE USER_ID = '{UserId}';
```

```
UPDATE UserInfo SET  
FULL_NAME = '{fullName}',  
EMAIL = '{email}',  
USERNAME = '{username}',  
PASSWORD = '{password}',  
MOBILE = '{mobile}',  
NID = '{nid}',  
ADDRESS = '{address}';
```

```
ROLE = '{role}',  
STATUS = {status}  
WHERE USER_ID = '{UserId}';
```

FormEmployee

```
SELECT *  
FROM UserInfo  
WHERE USER_ID = '{UserID}';
```

```
SELECT *  
FROM CustomerInfo;
```

```
SELECT *  
FROM CustomerInfo  
WHERE CUSTOMER_MOBILE LIKE '% {searchText} %'  
ORDER BY CUSTOMER_ID;
```

FormFindPassword

```
SELECT PASSWORD  
FROM UserInfo  
WHERE USER_ID = '{userId}'  
AND USERNAME = '{username}'  
AND MOBILE = '{mobile}';
```

FormInvoicePrint

```
SELECT CUSTOMER_NAME, CUSTOMER_MOBILE,  
TOTAL_AMOUNT, DISCOUNT_AMOUNT, FINAL_AMOUNT, INVOICE_DATE  
FROM InvoiceDetails  
WHERE INVOICE_ID = '{InvoiceID}';
```

```
SELECT P.PRODUCT_NAME, I.QUANTITY, I.UNIT_PRICE, I.SUB_TOTAL  
FROM InvoiceItems I  
INNER JOIN ProductInfo P ON I.PRODUCT_ID = P.PRODUCT_ID  
WHERE I.INVOICE_ID = '{InvoiceID}';
```

FormManageProducts

```
SELECT *  
FROM ProductInfo;
```

```
SELECT *  
FROM ProductInfo  
WHERE PRODUCT_NAME LIKE '% {searchText} %'  
OR PRODUCT_ID LIKE '% {searchText} %'  
ORDER BY PRODUCT_ID;
```

```
DELETE  
FROM ProductInfo  
WHERE PRODUCT_ID = '{productId}';
```

FormReset

```
SELECT USERNAME, PASSWORD
FROM UserInfo
WHERE USER_ID = '{UserId}';
```

```
UPDATE UserInfo
SET USERNAME = '{newUserName}', PASSWORD = '{newPassword}'
WHERE USERNAME = '{currentUsername}' AND PASSWORD = '{currentPassword}';
```

FormUpdateProduct

```
SELECT *
FROM ProductInfo
WHERE PRODUCT_ID = @ID;
```

```
UPDATE ProductInfo
SET PRODUCT_NAME = @NAME,
QUANTITY = @QTY,
CATEGORY_NAME = @CAT,
UNITPRICE = @PRICE,
CREATED_DATE = @DATE,
IS_AVAILABLE = @STATUS
WHERE PRODUCT_ID = @ID;
```

FromSalesReport

```
SELECT * FROM InvoiceDetails;
```

```
SELECT INVOICE_DATE, SUM(CAST(FINAL_AMOUNT AS float)) AS TotalSales
FROM InvoiceDetails
GROUP BY INVOICE_DATE
ORDER BY INVOICE_DATE;
```

```
SELECT INVOICE_DATE, SUM(CAST(FINAL_AMOUNT AS float)) AS TotalSales
FROM InvoiceDetails
WHERE INVOICE_DATE >= '{fromDate}'
AND INVOICE_DATE <= '{toDate}'
GROUP BY INVOICE_DATE
ORDER BY INVOICE_DATE;
```

```
SELECT *
FROM InvoiceDetails
WHERE INVOICE_DATE >= '{fromDate}'
AND INVOICE_DATE <= '{toDate}'
ORDER BY INVOICE_DATE;
```

```
SELECT PRODUCT_ID, PRODUCT_NAME, QUANTITY, UNIT_PRICE, SUB_TOTAL
FROM InvoiceItems
WHERE INVOICE_ID = '{invoiceId}';
```

```
SELECT *
FROM InvoiceDetails
WHERE CUSTOMER_MOBILE LIKE '%{mobile}%'
ORDER BY INVOICE_DATE;
```

```
DELETE FROM InvoiceItems
```

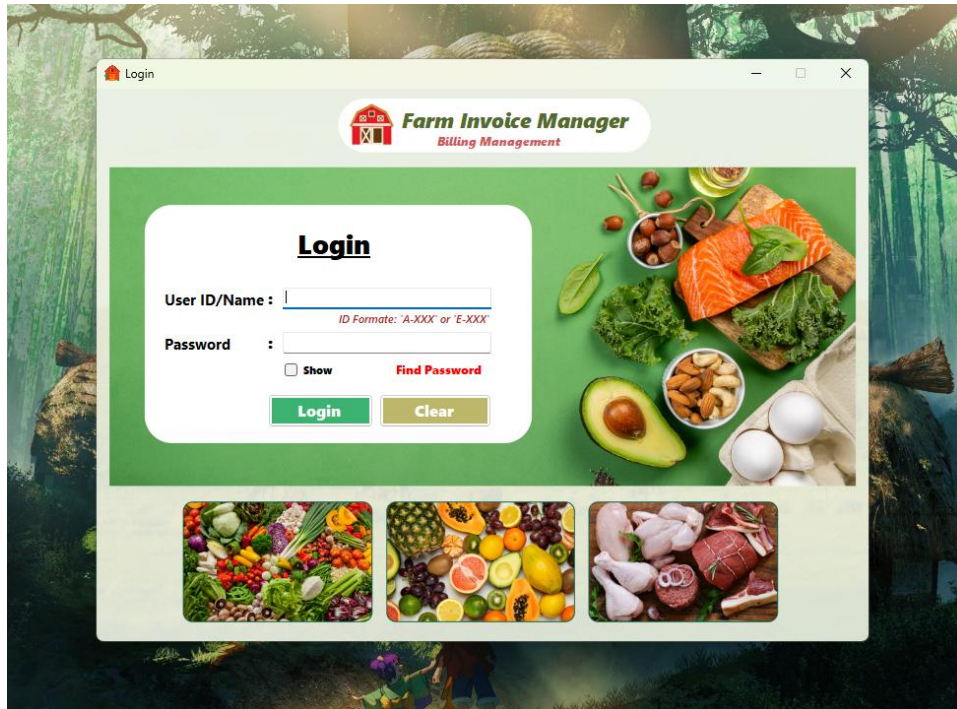
```
WHERE INVOICE_ID = '{invoiceId}';
```

```
DELETE FROM InvoiceDetails  
WHERE INVOICE_ID = '{invoiceId}';
```

Chapter 04: Screenshots

Form Name: Login Form

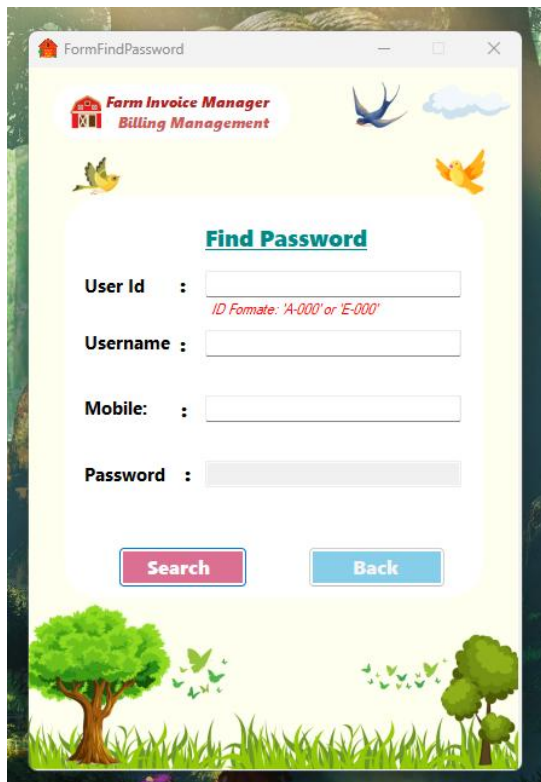
Purpose: User authentication (Admin / Employee)



The screenshot shows a web application window titled "Login". The header features the "Farm Invoice Manager" logo with the tagline "Billing Management". The main content area has a green background with a collage of fresh food items including salmon, avocado, eggs, and various fruits. A white login form is centered, containing the title "Login", a "User ID/Name" field with a hint "ID Format: 'A-XXXX' or 'E-XXXX'", a "Password" field with a "Show" checkbox and a "Find Password" link, and "Login" and "Clear" buttons. Below the form are three smaller images of food products.

Form Name: Find Password

Purpose: Recover login credentials



The screenshot shows a web application window titled "FormFindPassword". The header features the "Farm Invoice Manager" logo with the tagline "Billing Management". The main content area has a light yellow background with a decorative border of trees and butterflies. A white form is centered, containing the title "Find Password", and four input fields: "User Id" (with a hint "ID Format: 'A-000' or 'E-000'"), "Username", "Mobile", and "Password". At the bottom are "Search" and "Back" buttons.

Form Name: Admin Dashboard

Purpose: Admin main control pane

AdminView

Farm Invoice Manager
Billing Management

Welcome, Rafiq Ahmed

Insert Update Delete Refresh

Search by Full Name, Username, or User ID

Users Information

UNIQUE ID	ROLE	NAME	EMAIL ADDRESS	MOBILE NUMBER	NID	ADDRESS
A-001	admin	Rafiq Ahmed	rafiq@gmail.com	01710000001	1234567890	Dhaka, Bangladesh
A-002	admin	Shahidul Islam	shahidul@gmail.com	01710000002	22345678901234567	Chittagong, Bangladesh
A-003	admin	Nusrat Jahan	nusrat@gmail.com	01710000003	3234567890	Syhet, Bangladesh
E-004	employee	Amina Khatun	amina@gmail.com	01810000004	4234567890	Khulna, Bangladesh
E-005	employee	Jamil Hossain	jamil@gmail.com	01810000005	52345678901234567	Barisal, Bangladesh
E-006	employee	Mehedi Hasan	mehedi@gmail.com	01810000006	6234567890	Rangpur, Bangladesh
E-007	employee	Sumaiya Islam	sumaiya@gmail.com	01810000007	7234567890	Rajshahi, Bangladesh
E-008	employee	Farhana Akter	farhana@gmail.com	01810000008	82345678901234567	Mymensingh, Bangladesh
E-009	employee	Tanvir Rahman	tanvir@gmail.com	01810000009	9234567890	Comilla, Bangladesh

Manage User's

Manage Product

Add Sell

Sell Report's

Information

Show Customer

Reset Username And Password

Logout

Form Name: Employee Dashboard

Purpose: Employee main control panel

FormEmployee

Farm Invoice Manager
Billing Management

Welcome, Amina Khatun

About Farm Invoice Manager

Farm Invoice Manager is a desktop-based software designed to simplify and streamline the billing and management processes for modern farm operations. It helps manage orders, invoices, and customer information while also controlling user roles. The software features separate dashboards for both admins and employees, allowing for easy management of sales, product additions, customer profiles, and report generation.

This system is developed using C# and database integration, providing users with a seamless graphical user interface.

Information

Show Customer

Add Sell

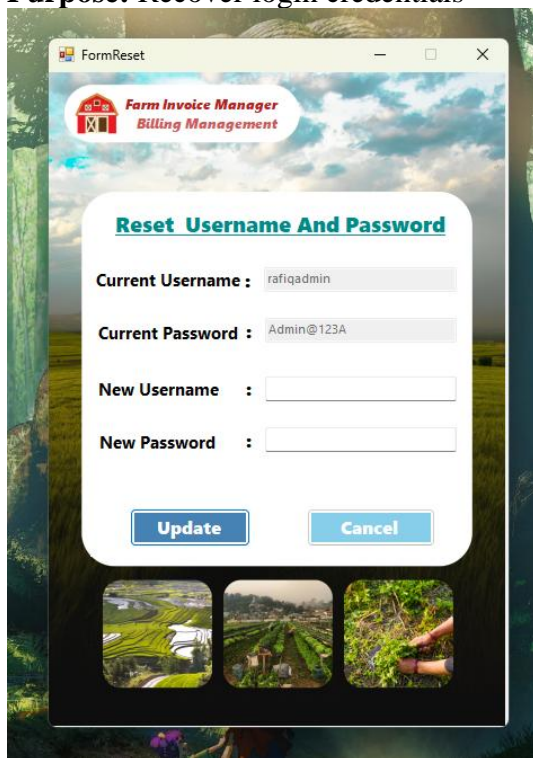
Sell Report's

Reset Username And Password

Logout

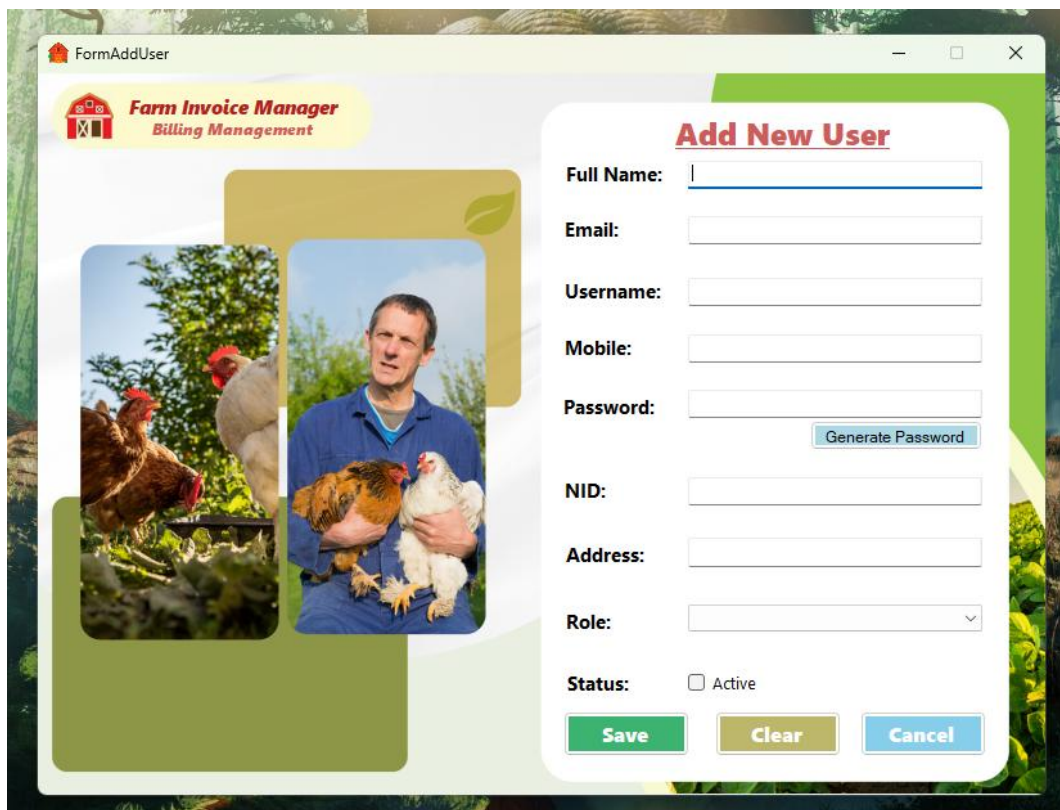
Form Name: Reset Password Form

Purpose: Recover login credentials



Form Name: Add New User Form

Purpose: Create admin or employee account



Form Name: Edit Existing User Form

Purpose: Update user information

Edit Existing User

Full Name : Rafiq Ahmed
✓ Looks good

Email : rafiq@gmail.com
✓ Looks good

Username :
✓ Looks good (Can't Be Changed)

Password :
✓ Looks good (Can't Be Changed)

Mobile : 01710000001
✓ Looks good

NID : 1234567890
✓ Looks good

Address : Dhaka, Bangladesh
✓ Looks good

Role : Admin
(Can't Be Changed)

Status : ☒ Active

Update **Clear** **Cancel**

Form Name: Manage Products Form

Purpose: View, update, delete products

Product Information

Selected: FIM-001 - Rice 1kg

PRODUCT ID	PRODUCT NAME	STOCKS	CATAGORY	UNIT PRICE	STORING DATE	AVAILABLE STATUS	CREATED_BY_USE
FIM-001	Rice 1kg	200	Grain	65	1/1/2026	True	A-001
FIM-002	Wheat 1kg	150	Grain	60	1/2/2026	True	A-001
FIM-003	Corn 1kg	120	Grain	55	1/3/2026	True	A-001
FIM-004	Potato 1kg	300	Vegetable	20	1/4/2026	True	A-002
FIM-005	Onion 1kg	250	Vegetable	25	1/5/2026	True	A-002
FIM-006	Garlic 1kg	100	Vegetable	45	1/6/2026	True	A-002
FIM-007	Spinach 1kg	80	Vegetable	30	1/7/2026	True	A-003
FIM-008	Cabbage 1kg	90	Vegetable	22	1/8/2026	True	A-003
FIM-009	Cauliflower 1kg	70	Vegetable	35	1/9/2026	True	A-003
FIM-010	Tomato 1kg	110	Vegetable	28	1/10/2026	True	A-003
FIM-011	Cow Milk 1L	200	Dairy	60	1/11/2026	True	A-001
FIM-012	Goat Milk 1L	120	Dairy	75	1/12/2026	True	A-001
FIM-013	Eggs 12pcs	180	Poultry	110	1/13/2026	True	A-001
FIM-014	Chicken Meat 1kg	80	Poultry	180	1/14/2026	True	A-002
FIM-015	Live Chicken	60	Poultry	220	1/15/2026	True	A-002
FIM-016	Chicken Feed 1kg	300	Feed	35	1/16/2026	True	A-002
FIM-017	Rice Bran 1kg	180	Feed	28	1/17/2026	True	A-003
FIM-018	Mustard Seeds 1kg	50	Seed	140	1/18/2026	True	A-001
FIM-019	Rice Seeds 1kg	90	Seed	85	1/19/2026	True	A-001

Form Name: Add Product Form

Purpose: Add new product information.

The screenshot shows a web application window titled "FormAddProduct". The header includes a logo for "Farm Invoice Manager Billing Management" and a circular image of hands planting seedlings. The main form area is titled "Add Product" and contains the following fields:

- Name:
- Quantity:
- Category Name:
- Unit Price:
- Adding Date:
- Status: ☐ Active

At the bottom of the form are three buttons: "Add" (green), "Clear" (yellow), and "Cancel" (blue). The background features a red barn and two cows in a field.

Form Name: Update Product Form

Purpose: Update existing product details.

The screenshot shows a web application window titled "FormUpdateProduct". The header includes the same "Farm Invoice Manager Billing Management" logo and a circular image of a tractor. The main form area is titled "Update Product" and contains the following fields:

- Name: ✓ Looks good
- Quantity: ✓ Looks good
- Category Name: ✓ Looks good
- Unit Price: ✓ Looks good
- Adding Date: ✓ Looks good
- Status: ☒ Active

At the bottom of the form are three buttons: "Update" (green), "Clear" (yellow), and "Cancel" (blue). The background features a large sun and a tractor in a field.

Form Name: Personal Information Form

Purpose: View logged-in user details.

The screenshot shows the 'Personal Information' form in the 'Farm Invoice Manager' application. The interface includes a sidebar with navigation options: Manage User's, Manage Product, Add Sell, Sell Report's, Information, Show Customer, Reset Username And Password, and Logout. The main content area displays the user's details in a form with the following fields:

Field	Value
User Id	A-001
Full Name	Rafiq Ahmed
Email	rafiq@gmail.com
Username	rafiqadmin
Password	Admin@123A
Mobile	01710000001
NID	1234567890
Address	Dhaka, Bangladesh
Role	admin
Status	True

Form Name: Show Customer Form

Purpose: View premium customer list.

The screenshot shows the 'Premium Member' table in the 'Farm Invoice Manager' application. The table displays a list of premium customers with their IDs, names, and mobile numbers. The interface includes a sidebar with navigation options: Manage User's, Manage Product, Add Sell, Sell Report's, Information, Show Customer, Reset Username And Password, and Logout. The main content area displays the table with the following data:

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER MOBILE
PC-001	Rahim Uddin	01712345678
PC-002	Karim Ahmed	01823456789
PC-003	Sadia Islam	01934567890
PC-004	Nusrat Jahan	01645678901
PC-005	Tanvir Hasan	01556789012
PC-006	Faruk Hossain	01799900000
PC-007	Lamia Akter	01888881111
PC-008	Rezaul Karim	01977772222
PC-009	Mina Khatun	01666663333
PC-010	Sohail Rana	01755554444

Form Name: Personal Information Form (Employee)

Purpose: View logged-in employee details.

The screenshot shows a web application window titled 'FormEmployee'. The header includes a logo for 'Farm Invoice Manager Billing Management' and a welcome message 'Welcome, Amina Khatun'. The left sidebar contains navigation buttons: 'Information', 'Show Customer', 'Add Sell', 'Sell Report's', 'Reset Username And Password', and 'Logout'. The main content area is titled 'Personal Information' and displays the following details:

User Id :	E-004
Full Name:	Amina Khatun
Email:	amina@gmail.com
Username:	aminakhatun
Password:	Emp@123Aa
Mobile:	01810000004
NID:	4234567890
Address:	Khulna, Bangladesh
Role:	employee
Status:	True

Form Name: Show Customer Form (Employee)

Purpose: View premium customer list.

The screenshot shows the 'Premium Member' section of the 'FormEmployee' application. It features a search bar and a table listing premium customers. The table has columns for 'CUSTOMER ID', 'CUSTOMER NAME', and 'CUSTOMER MOBILE'.

	CUSTOMER ID	CUSTOMER NAME	CUSTOMER MOBILE
▶	PC-001	Rahim Uddin	01712345678
	PC-002	Karim Ahmed	01823456789
	PC-003	Sadia Islam	01934567890
	PC-004	Nusrat Jahan	01645678901
	PC-005	Tanvir Hasan	01556789012
	PC-006	Faruk Hossain	01799990000
	PC-007	Lamia Akter	01888881111
	PC-008	Rezaul Karim	01977772222
	PC-009	Mina Khatun	01666663333
	PC-010	Sohail Rana	01755554444
	PC-011	Rishad	01788998899
	PC-012	Shafi	01799991111

Form Name: Add Customer Form

Purpose: Add new customer information

FormAddCustomer

Farm Invoice Manager
Billing Management

Add Customer

Customer Name :

Mobile Number :

Save **Clear** **Back**

Form Name: Add Sales Form

Purpose: Create and manage customer sales invoices.

FormAddSales

Farm Invoice Manager
Billing Management

Invoice Information

Customer Name :

Number :

Invoice Date : 1/21/2026

MemberShip :

Add New

Add Product

Product :

Unit Price :

Available Stocks :

Quantity :

Total :

Add Item

Total Amount

Sub Total :

Discount :

Net Payable :

Save Invoice

Added Items Date : 1/21/2026

PRODUCT ID	PRODUCT NAME	STOCKS	UNIT PRICE	STORING DATE	QUANTITY	TOTAL
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Remove Item **Clear**

Form Name: Sales Report Form
Purpose: View and analyze date-wise sales information.

FromSalesReport

Back

Sales Report

Farm Invoice Manager
Billing Management

Select Date

From Date: 1/21/2026 To Date: 1/21/2026 Search

Summary

Total Invoices
14

Total Sales
Tk 5,842.00

Avarage Sales
Tk 417.29

Sales Overview

Date	Sales
02-Jan	335
03-Jan	400
04-Jan	380
05-Jan	212
06-Jan	184
07-Jan	540
08-Jan	1270
09-Jan	1080
10-Jan	730
11-Jan	285
12-Jan	406

Invoices List

Selected: INV-001 - Rahim Uddin

Search by Customer Number

	INVOICE ID	USER ID	CUSTOMER ID	CUSTOMER_NAME	CUSTOMER_MOBILE	AMOUNT	DISCOUNT	FINAL AMOUNT	IN
▶	INV-001	A-001	PC-001	Rahim Uddin	01712345678	385.00	50.00	335.00	1/1
	INV-002	A-001	PC-002	Karim Ahmed	01823456789	430.00	30.00	400.00	1/2
	INV-003	A-002	PC-003	Sadia Islam	01934567890	480.00	100.00	380.00	1/3
	INV-004	A-002	PC-004	Nusrat Jahan	01645678901	232.00	20.00	212.00	1/4
	INV-005	A-003	PC-005	Tanvir Hasan	01556789012	384.00	200.00	184.00	1/5
	INV-006	A-003	PC-006	Faruk Hossain	01799990000	600.00	40.00	560.00	1/6

Invoices Details

	PRODUCT ID	PRODUCT NAME	UNIT PRICE	QUANTITY	SUB TOTAL
▶	FIM-001	Rice 1kg	65.00	5	325.00
	FIM-004	Potato 1kg	20.00	3	60.00

Refresh

Print Invoice

Delete Invoice