Retail Shop Billing System using C# and SQL

PROBLEM STATEMENT

The project aims to create a DMART billing system using C# and SQL. This system is designed to help manage customer, supplier, and product information, as well as generate bills for customers. The main objectives include creating a user-friendly interface to interact with the database, allowing users to view, edit, delete, and add records. The system should calculate and display the total cost, including taxes and discounts, and provide the ability to print bills.

INTRODUCTION

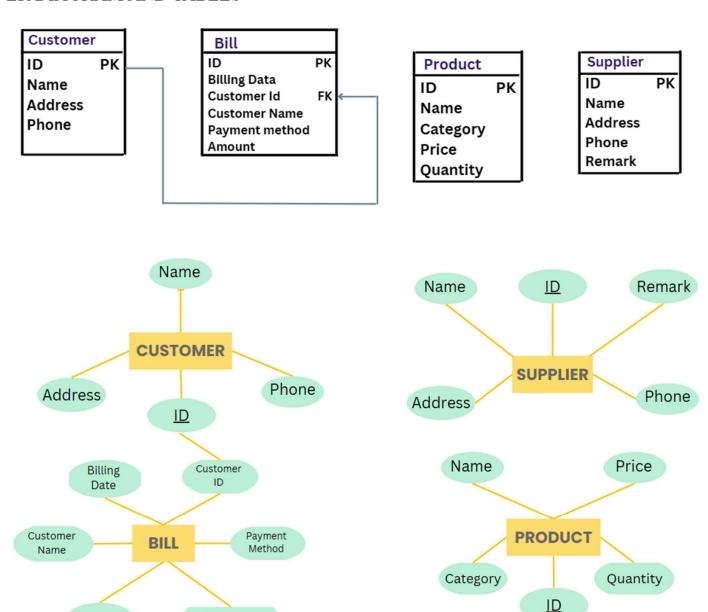
The project utilizes C# and SQL in Visual Studio to achieve the following functionalities:

the main menu. Also includes a button "Continue as User" directly leading to the billing page.
2. Main Menu: The main menu offers six primary actions:
☐ View Customers
☐ View Products
☐ View Suppliers
☐ Add Customer
☐ Add Product
☐ Add Supplier
☐ Two additional options: "Back" to return to the login page and "Go to Billings" to access the billing window.
3. <u>View Windows</u> : The "View" options for Customers, Products and Suppliers allow the user to see the respective tables. User can also edit or delete records in these windows.

1. Login Page: Users start with a login page where they enter a username and password. Successful login leads to

- 4. Add Windows: User can input data to add new customers, products, or suppliers to the database.
- 5. <u>Message Box</u>: After editing, deleting, or adding any record, a message box is displayed. It is also displayed if any information block is empty or if any invalid data is put in the text boxes.
- 6. <u>Billing Window</u>: This window displays customer details (Name and ID) and billing date. The user can select products from the available products table and enter the quantity in the box, which is added to the bill table automatically. If the quantity entered is more than the items available, we get a message box displaying "The product is out of stock". The system calculates and displays the sub-total. User then input GST and a discount, and the grand total is calculated and displayed. There is also a "View Bills" button to access stored bills, and a "Print" button to save and print the bill which gets displayed in the print dialog box.

ER DIAGRAM AND TABLES



OUTPUT (WINDOWS)

ID

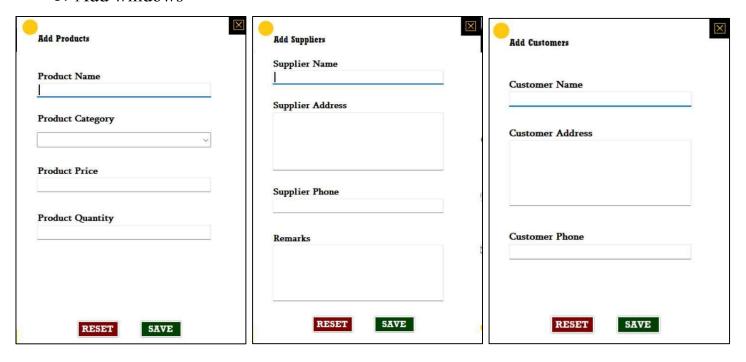
Amount

DMART POS LOGIN User Name Admin Password Password Continue As User

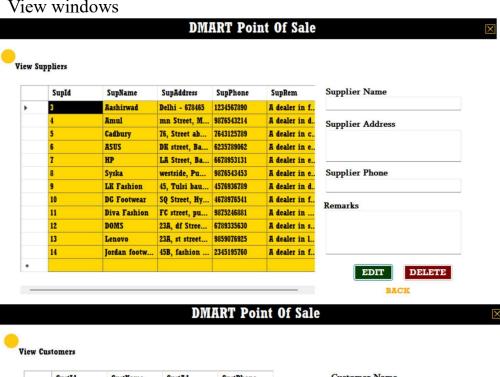
2. Main Menu



3. Add windows

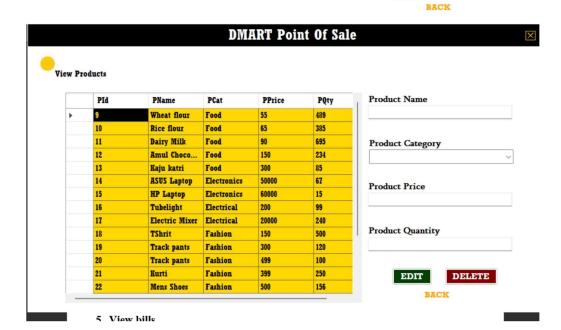


4. View windows







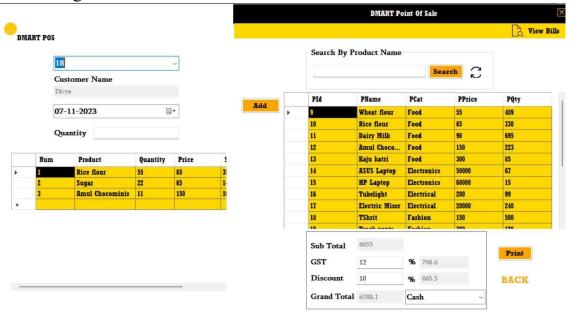


5. View bills



I	d	BDate	CustId	CustName	PMethod	Amt
15	5	15-10-2023	17	Suresh	Debit Card	344.5
16	6	15-10-2023	15	Durva	Credit Card	280.5
17	7	15-10-2023	20	Rehan	Debit Card	1255.68
18	B	15-10-2023	18	Divya	Debit Card	2861.25
19	9	20-10-2023	22	Anushka	Cash	3100
20	0	20-10-2023	22	Atharva	Cash	3040
21	1	20-10-2023	22	Pooja	Cash	1890
22	2	20-10-2023	13	Ananya	Debit Card	1170
23	3	07-11-2023	16	Atharva	Debit Card	1060

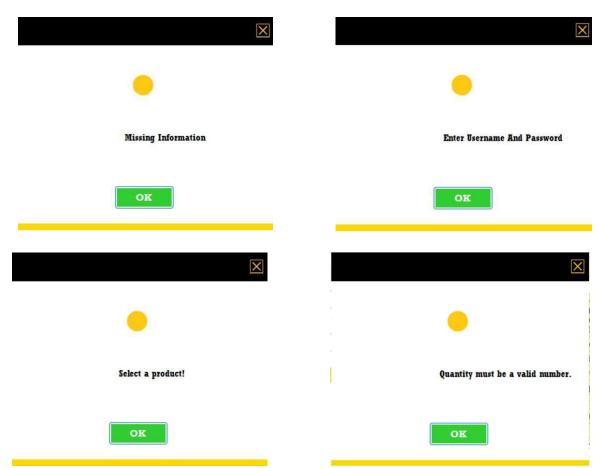
6. Billing



7. Message boxes







8. Bill printed

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*******
        DMART POS
Customer Name: Divya
Date: 07-11-2023
S.No Product Price Quantity Total
   Rice flour 65
                55
                       3575
                22
                       1430
   Amul Chocomtatois
                11
                       1650
Grand Total: ₹ 6788.1
*******
Paid Using Cash
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CONCLUSION

The Billing System project successfully addresses the need for a user-friendly application to manage customer, supplier, and product data and generate bills. It provides a smooth and efficient way to handle these tasks and ensures accurate billing calculations. Users can access the system with ease, make necessary updates, and generate professional bills for customers. It offers an intuitive interface and efficient functionalities, making it a valuable tool for businesses.

FUTURE SCOPE

The project has several potential future enhancements, including improved user authentication and security, barcode scanning and inventory management features, supplier and purchase order management, online payment processing, scalability, etc. These developments would make the system more versatile, efficient, and user-friendly, catering to a wider range of business needs and industries.

REFERENCES

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