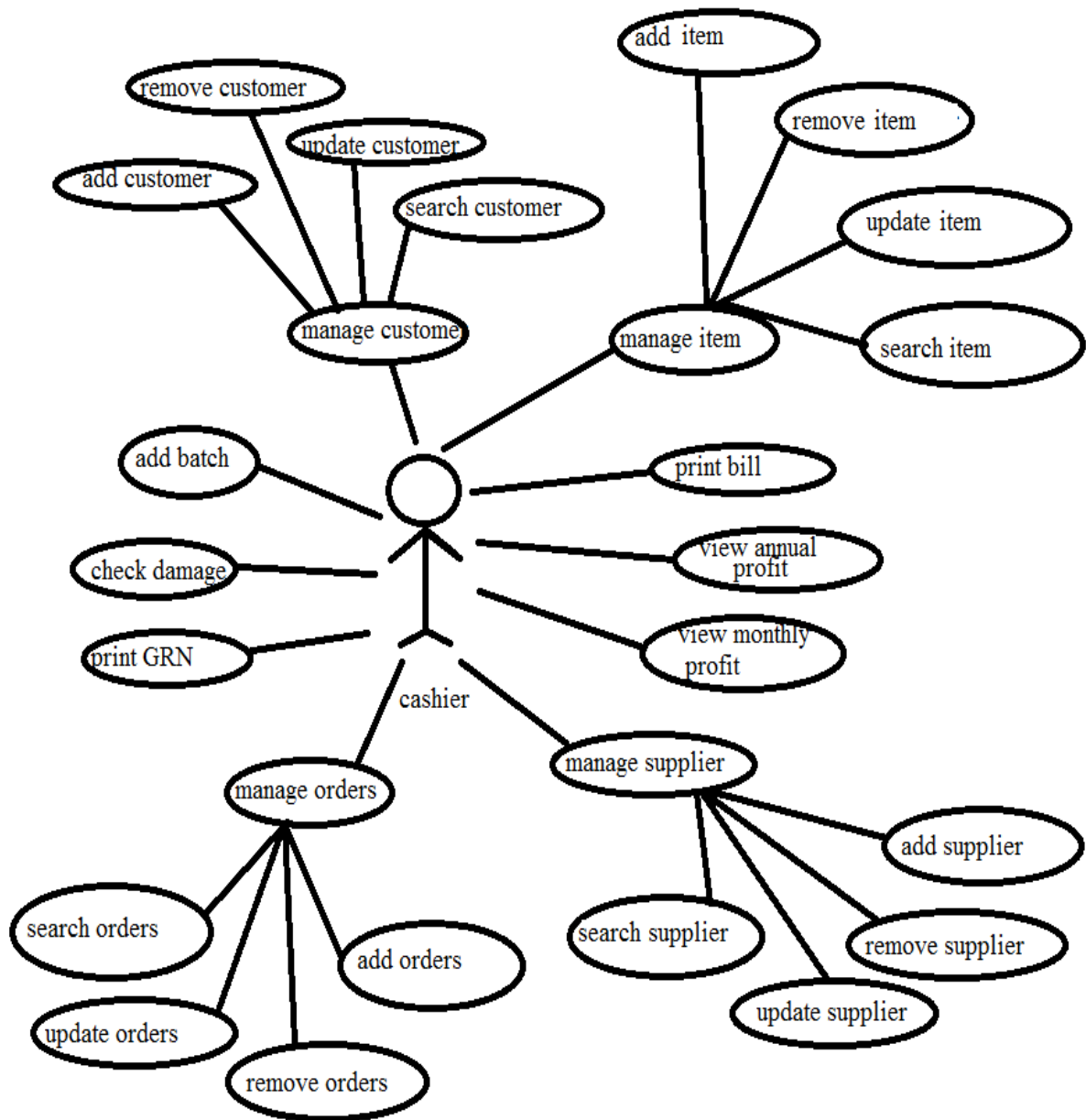


SAREE SHOP- POS System

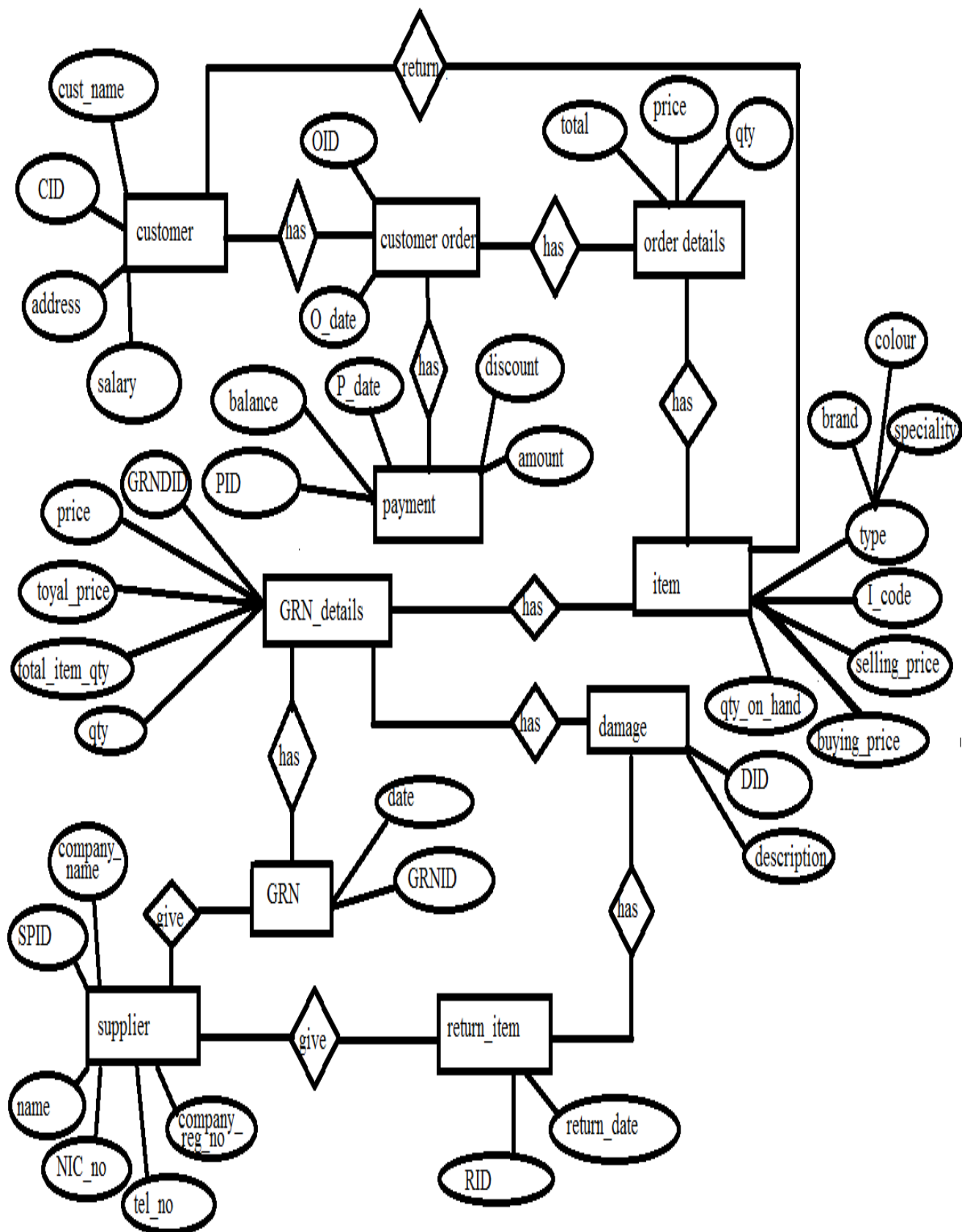
Content

1. Complete use case diagram
2. Entity Relationship Diagram (ERD)
3. Logical schema of above ERD
4. All user interfaces and explain each interface
5. Security features of the software

1.0 Use Case Diagram



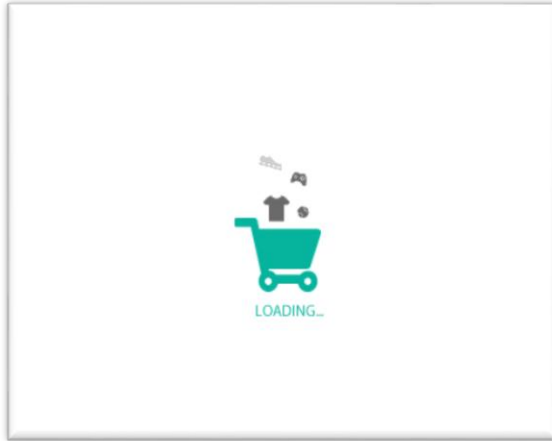
2. Entity Relationship Diagram (ERD)



3. Logical schema of above ERD

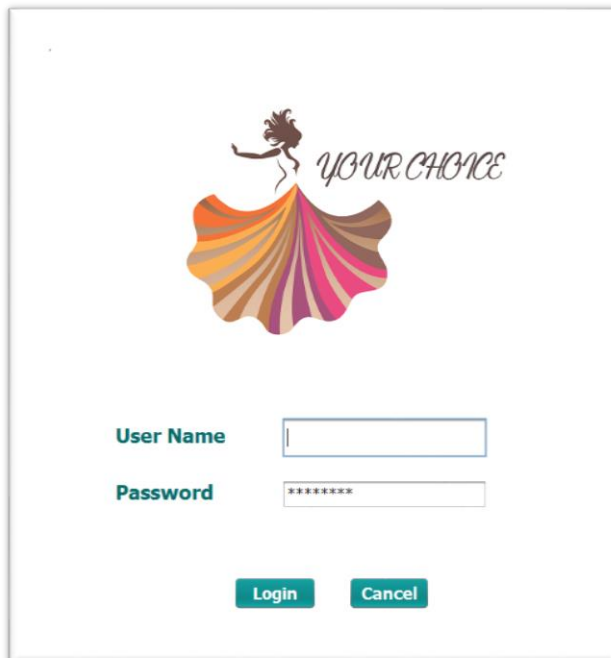
4. INTERFACES

4.1 Splash Screen



This interface is a graphical control element consisting of a window containing a gif. This usually appears when software is launching.

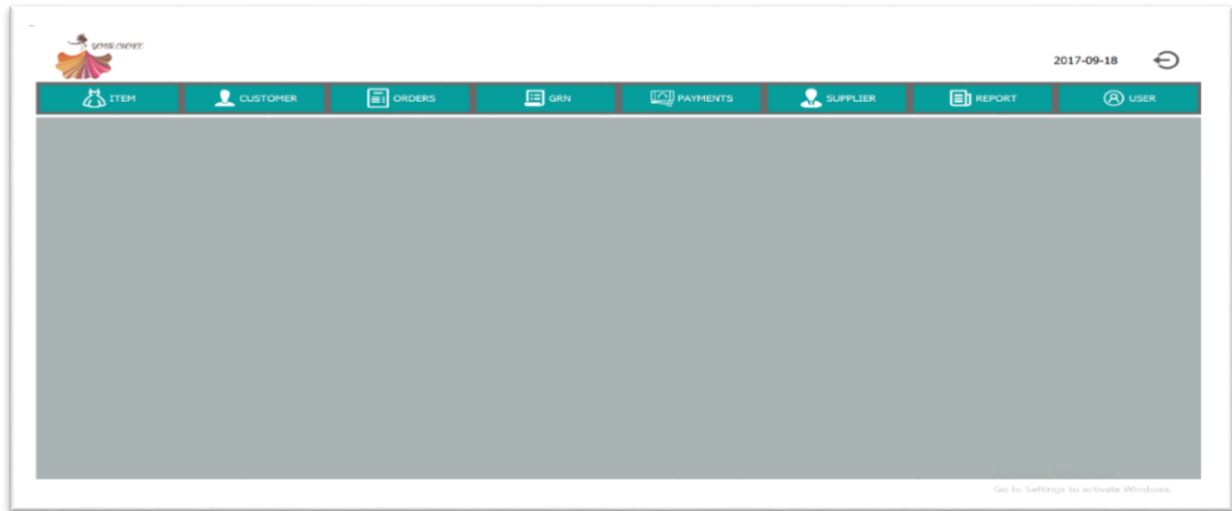
4.2 Login Interface

A square window with a thin grey border. At the top center is a logo featuring a stylized figure in a colorful, multi-colored dress with the text "YOUR CHOICE" in a cursive font. Below the logo, there are two labels: "User Name" and "Password", both in a green sans-serif font. To the right of each label is a white input field with a thin blue border. The "Password" field contains several asterisks. At the bottom of the window, there are two green buttons with white text: "Login" and "Cancel".

Login Interface contains the logo of the shop, fields to input username and password. When you click Login button if username and password matches homepage will appear. If needed you can use cancel button. Then all the fields will be cleared.

4.2 Home Page

All buttons are displayed to owner. For other users Orders and report buttons only are visible.



Home page has buttons to link to the forms in the system. They are item, customer, orders, GRN, payments, supplier, reports and user. In the top right corner logout button is located. When it is clicked homepage closed and login form appears. In the home page I put a panel to load other panel forms such as customer form, item form etc.

4.3 Item Interface

The screenshot shows the 'Item Interface' of the application. The top navigation bar is the same as the Home Page. The left sidebar contains a form with the following fields: 'Item Code' (with a refresh icon), 'Type', 'Brand', 'Colour', 'Description', 'Buying price', 'Selling Price', and 'Qty On Hand' (with a numeric input field). The main area is titled 'View All Item' and contains a table with the following data:

Item Code	Type	Brand	Colour	Description	Buying Price	Selling Price	Qty On Hand
I0001	HandLoom	Wijaya Saree	Purple	With White ...	4000.00	4500.00	3
I0002	Silk	Saratha Saree	Pink and Ye...	With seque...	4500.00	4850.00	6
I0003	Printed	Wijaya Saree	MultiColour	With gold d...	6000.00	6500.00	5
I0004	Coton	Sri Palli Saree	Blue	With Little fl...	3800.00	4200.00	5

The right sidebar contains three buttons: 'Add', 'Update', and 'Remove'. At the bottom right, there is a 'Windows' taskbar.

All the items are show in the table. When an item is selected all the data is shown in text fields. Then if needed it can be updated or deleted. You can also add Items using this form. Id is auto generated for the item. Small refresh button is used to generate id. Other refresh button is used to load data on the table.

4.4 Customer Interface

Customer ID	Name	NIC No	Tel No	Address
Cash Customer	Cash Customer		0	
Cu0001	Kumari Perera	907634521V	775634562	N0.34,Main Road,Amba...
Cu0002	Sunitha Perera	947678515V	715334562	N0.54,School Road,Am...
Cu0003	Samadhi Kariyawasam	876634516V	775674562	N0.134,Main Road,Bala...
Cu0004	Achintha Silva	907634612V	775633456	N0.37,Wimalasooriya R...
Cu0005	Subodha Pathirana	877634501V	765334577	N0.99,Main Road,Batap...

It views all customers, can be used to add, update or delete customers.

All the customers are viewed in the table. The refresh button under the table refreshes the data on the table. We can search customers using customer name. When one customer is selected the data is shown in the text fields. When the refresh button near those text fields is clicked customer id is auto generated. When that cancel button is clicked all the data on that text fields are erased.

4.4 Supplier Interface

Supplier ID	Name	Company	NIC No	Tel No
S0001	S.U.Perera	Perera Sarees	827923712V	715551111
S0002	Kamilla Darshana	New Indian Sarees	837945712V	736666432
S0003	Sithara De Soya	Saree Corner	839241439V	715590350
S0004	S.Y.Perera	MS Fashions	953943712V	715375956
S0005	T.U.Silva	Saree Corner	927843712V	715509894

All the Suppliers are shown in the table. When a one is selected all the data is shown in the text fields. Supplier ID is auto generated. This form can also be used to add, update or remove a Supplier.

4.5 Orders Interface

2017-09-18

ITEM CUSTOMER ORDERS GRN PAYMENTS SUPPLIER REPORT USER

View All Orders View Orders by Order id O0001

Order ID	Date	Customer ID	Total Price	Total Qty
O0001	2016-04-05	Cu0001	9000.00	2
O0002	2016-20-15	Cu0002	12000.00	2
O0003	2017-08-15	Cu0003	9000.00	2

Item Code Qty Price

10001	1	4500
10003	1	6500

Order ID O0004 Order Date 2017-09-18

Customer ID Customer ID Cash Customer Select From Customer

Item Code Item Code Type Type Brand Brand

Description Description Price Price Colour Colour

Qty On Hand Qty On Hand Qty 0 Select From Item

Item Code	Type	Brand	Colour	Description	Price	Qty
-----------	------	-------	--------	-------------	-------	-----

Total Qty Total Qty Total Amount Total Amount Discount Discount

Net Amount Net Amount Cash Cash Balance Balance

Go to Settings to activate Windows.

This form is used to view and add orders. All orders are viewed in a table. When a order is clicked its details are shown in the table below. The refresh button refreshes tables.

Order id is auto generated. System date is set as the order date. One can give a customer id if he know it exactly or one can select a customer from “Select from customer” button. The form which appears after clicking that button is given below.

Select Customer -

Cust Name Cash Cust

Cust_ID	Name	NIC_No	Tel_No	Address
Cash Customer	Cash Customer	0		

Go to Settings to activate Windows.

If the customer is not a one which you do not need to keep data stored, you can check cash customer check box.

You can enter an item code if you know exactly. When you enter it all the data is filled regarding that item. Else you can use “Select from item” button to select an item. The form which appears after clicking this is given below.

Select Item

Select Item

I Code	Type	Brand	Colour	Description	Buying Price	Selling Price	Qty On Hand
10001	HandLoom	Wijaya Saree	Purple	With White flowers	4000.00	4500.00	3
10002	Silk	Saritha Saree	Pink and Yellow	With sequences	4500.00	4850.00	6
10003	Printed	Wijaya Saree	MultiColour	With gold design	6000.00	6500.00	5
10004	Coton	Sri Pali Saree	Blue	With Little flowers	3800.00	4200.00	5

In the “qty on hand” text field current stock quantity is shown. When the order qty of an item is added the qty on hand text field updates automatically. Then right button should be clicked to add that item to the order items table or cross button should be clicked to clear the all the data regarding item text fields. After adding all the items to that table to generate total amount and total qty, the right button near the bottom of the table must be clicked. If needed a discount can be given. After adding discount net amount is created. Then after inputting cash balance is auto created. If you need to cancel the order the cancel button near balance text field must be clicked.

4.6 GRN Interface

2017-09-18

ITEM CUSTOMER ORDERS GRN PAYMENTS SUPPLIER REPORT USER

View All GRNs View All GRNs GRN ID GRN0001

GRN ID	Supplier ID	Date	Total Qty	Total Price
GRN0001	S0001	2016-03-04	20	43000.00

GRN ID: GRN0003 Date: 2017-09-18

Supplier ID: SupName: Company: Go To Supplier

Item Code: Type: Brand: Description: Colour: Price: Qty On Hand: Qty: Go To Item

Item Code	Main Type	Brand	Description	Colour	Price	Qty

Total Qty: Total Price:

Activate Windows

This form is used to add and view GRNs. All GRNs are shown in the table and when a GRN is selected the details of that GRN is show in the table below. The refresh button in the bottom is used to refresh tables.

GRN id is auto generated. System date is given as the GRN date. You can search a supplier entering the id of a supplier or you can select a supplier from “Go to supplier” button. Form is given below.

Supplier ID	Name	Company Name	NIC no	Tel No
S0001	S.U.Perera	Perera Sarees	827923712V	715551111
S0002	Kamila Darshana	New Indian Sarees	837945712V	756666432
S0003	Sithara De Soyza	Super Sarees	857943452V	715557859
S0004	S.Y.Perera	MS Fashions	953943712V	715375956
S0005	T.U.Silva	Saree Corner	927843712V	715509894

Item can be searched by entering id or you can use the button “Select from Item” to choose item.

Qty on hand is updated with the qty of item in GRN is added. After adding all items total price, qty are auto calculated.

4.7 Payments

Payments has two main parts. They are customer payments and supplier payments. Each has a form only to view payments. Customer payments show the payments done by customer when placing an order. Supplier order showa all details of payments done to supplier when a GRN is created.

4.7.1.Customer Payments

Customer Payment ID

Payment Date

Order ID

Amount

Discount

Net Amount

Cash

Balance

View All Customer Payments

Select Date Payment ID

Payment ID	Payment Date	Order ID	Amount	Discount	Net Amount	Cash	Balance
O0003	2017-08-15	O0003	11000.00	2000.00	9000.00	1000.00	10000.00

PAYMENTS

Go to Settings to activate Windows.

Customer payments can be searched by customer id, date and order id.

4.7.2 Supplier Payments

Customer Payment ID: 00003

Payment Date: 2017-08-15

Order ID: 00003

Amount: 11000.00

Discount: 2000.00

Net Amount: 9000.00

Cash: 1000.00

Balance: 10000.00

View All Customer Payments

Select Date: Payment ID: 00003

Payment ID	Payment Date	Order ID	Amount	Discount	Net Amount	Cash	Balance
00003	2017-08-15	00003	11000.00	2000.00	9000.00	1000.00	10000.00

PAYMENTS

Customer Payments

Supplier Payments

Go to Settings to activate Windows.

Supplier payments can be searched by supplier id, payment id and payment date.

In both forms when a row in the table is clicked the data is shown in the text fields.

4.8 Supplier Interface

Supplier ID: 50003

Name: Silthara De Soyza

Company Name: Super Sarees

NIC_NO: 857943452V

Tel No: 715557859

View All Suppliers

Supplier ID	Name	Company	NIC No	Tel No
50001	S.U.Perera	Perera Sarees	827923712V	715551111
50002	Kamila Darshana	New Indian Sarees	837945712V	756666432
50003	Silthara De Soyza	Super Sarees	857943452V	715557859
50004	S.Y.Perera	MS Fashions	953943712V	715375956
50005	T.U.Silva	Saree Corner	927843712V	715509894

SUPPLIER

Add

Update

Remove

This interface is used to add, remove, view and update suppliers. All suppliers are listed in the table with details. When a supplier data on the table is clicked those details are shown in text fields. Supplier id is auto generated. Refresh button and cancel buttons work same as in the customer form item form etc.

4.9 Users Interface

The screenshot displays the 'Users Interface' of a software application. At the top, there is a teal navigation bar with icons and labels for 'ITEM', 'CUSTOMER', 'ORDERS', 'GRN', 'PAYMENTS', 'SUPPLIER', 'REPORT', and 'USER'. The 'USER' tab is currently selected. Below the navigation bar, the main content area is divided into two sections. On the left, there is a form titled 'Add Remove Update Users.....' with input fields for 'User ID', 'Name', 'Preferred Name', 'Password', 'Tel No', and 'NIC No'. On the right, there is a sidebar with a 'USER' header, a user icon, and three buttons: 'Add' (with a plus icon), 'Update' (with a circular arrow icon), and 'Remove' (with a minus icon). The date '2017-09-18' is displayed in the top right corner. At the bottom right, there is a Windows watermark and a message: 'Go to Settings to activate Windows.'

S

Users interface is used by the owner to add, remove or update users and user details of this system.

5. Security Features of the software.

In the logging page username and password is checked. Only the owner can access all the forms in the homepage. When cashier or other user is logged in they only can access Orders form. So other users only can add orders. They can't change any other data or manage users.