Sales Outlet Management System

Project Document Submitted By
D.L.C.Amarasinghe (962291465V)
To The
Software Engineering Panel

In partial fulfilment of the requirement
For passing 1st Semester software project

Software Engineering Level 1
of The

Institute of Java & Software Engineering

IJSE®

2017

Content

3. User Interfaces

3.1. User Login

RUHUNU RASARA Sales Outlet

Teller System

USER ID: 0134611

PASSWORD: *******

LOGIN   CANCEL

Department of Agriculture 2017 @ copyright All Rights Reserved

Figure 3.1.1

User can get the access to the system by entering User ID and its corresponding password correctly. If any user enters his/her username and password the system automatically recognize the account and the user is allowed to enter to the system. (Figure 3.1.1)

3.2. Place Order - Retail Panel

Figure 3.2.1

Figure 3.2.2

When a customer comes to the shop to buy goods for retail, user should use the panel 'Place Order-Retail'.

Order ID(Label)

The system automatically generates the corresponding Order ID which should come next and it is loaded to the Order ID label. (Figure 3.2.1)

Product Code(Combo Box)

Product Codes of the Product table have loaded to the 'Product Code' combo box. When user selects an item code, other fields(description, unit qty, selling unit price and qty on hand) fill automatically at the same time with reference to the selected product code. (Figure 3.2.1)

So, user can select the required products by going through the description.

Order Table

After filling qty and discount, user can put these product details into the 'List of Products' table. Product Count, Total Amount, Total Discount, Net Amount update simultaneously, when user adds these product details. (Figure 3.2.1)

If system user adds a product which was previously added to the 'List of Products' table, that product record updates in that table.

Remove Item(Button)

User can remove a record from 'List of Products' table by using this button.

Add Order(Button)

Adding payment details to the Customer Payment table, order to the Orders table, order details to the Order Detail table and updating product stock of the Product table, occur in relation to the database by clicking on this button.

After that, an invoice is also generated including all the details. (Figure 3.2.2)

Data validation features have been added to this panel. User can not enter product details to the 'List of Products' table, if user has typed an invalid qty or an invalid discount to the text fields. System user has to enter correct data to those text fields to proceed.

3.3. Place Order – WholeSale Panel

Figure 3.3.1

Figure 3.3.2

When a customer come to the shop to buy goods for WholeSale, user should use the panel 'Place Order-WholeSale'.

Customer ID(Combo Box)

Customer IDs of the Customer table have loaded to the customer ID combo box. When user selects a customer ID, customer name text field fills automatically at the same time with reference to the selected customer ID. (Figure 3.3.1)

So, user can select customers by going through their name.

Order ID(Label)

The system automatically generates the corresponding Order ID which should come next and it is loaded to the Order ID label. (Figure 3.3.1)

Product Code(Combo Box)

Product Codes of the Product table have loaded to the 'Product Code' combo box. When user selects an item code, other fields(description, unit qty, selling unit price and qty on hand) fill automatically at the same time with reference to the selected product code. (Figure 3.3.1)

So, user can select the required products by going through the description.

Order Table

After filling qty and discount, user can put these product details into the 'List of Products' table. Product Count, Total Amount, Total Discount, Net Amount update simultaneously, when user adds these product details. (Figure 3.3.1)

If system user adds a product which was previously added to the 'List of Products' table, that product updates in that table.

Remove Item(Button)

User can remove a record from 'List of Products' table by using this button.

Add Order(Button)

Adding payment details to the Customer Payment table, order to the Orders table, order details to the Order Detail table and updating product stock of the Product table, occur in relation to the database by using this button.

After that, an invoice is also generated including all the details. (Figure 3.3.2)

Data validation features have been added to this panel. User can not enter product details to the 'List of Products' table, if user has typed an invalid qty or an invalid discount to the text fields. System user has to enter correct data to those text fields to proceed.

3.4. Place Good Receive Note

Figure 3.4.1

Figure 3.4.2

When a supplier comes to the shop to supply goods, system user should use the panel 'Place Good Receive Note'.

Good Receive Note ID(Label)

The system automatically generates the corresponding GRN ID which should come next and it is loaded to the GRN ID label. (Figure 3.4.1)

Supplier ID(Combo Box)

Supplier IDs of the Supplier table have loaded to the supplier ID combo box. When user selects a supplier ID, 'Supplier Name' text field fills automatically at the same time with reference to the selected supplier ID. (Figure 3.4.1)

So, user can select the supplier by going through their name.

Product Code(Combo Box)

Product Codes of the Product table have loaded to the 'Product Code' combo box. When user selects an item code, other fields(description, unit qty, selling unit price and qty on hand) fill automatically at the same time with reference to the selected product code. (Figure 3.4.1)

So, user can select the required products by going through the description.

Order Table

After filling qty and discount, user can put these product details into the 'List of Products' table. Product Count, Total Amount update simultaneously, when user adds these product details. (Figure 3.4.1)

If system user adds a product which was previously added to the 'List of Products' table, that product updates in that table.

Remove Item(Button)

User can remove a record from 'List of Products' table by using this button.

Add Order(Button)

Adding payment details to the Customer Payment table, order to the Supplier Orders table, good receive details to the Good Receive Detail table and updating product stock of the Product table, occur in relation to the database by using this button.

After that, an invoice is also generated including all the details. (Figure 3.4.2)

Data validation features have been added to this panel. User can not enter product details to the 'List of Products' table, if user has typed an invalid buying qty or an invalid buying unit price to the text fields. System user has to enter correct data to those text fields to proceed.

3.5. Customer Payment Panel

Figure 3.5.1

Figure 3.5.2

Figure 3.5.3

When a customer wants to pay for the invoice, system user can use this panel.

Order ID(Combo Box)

All the Order IDs related to the orders that are not paid, load to this combo box. So, the system user can select the relevant Order ID with the help of the invoice. (Figure 3.5.1)

Consequently relevant payment ID, total bill value, net bill value, total discount and No of products also load to the labels of payment ID, total bill value, net bill value, total discount, No of products respectively. (Figure 3.5.1)

Cash Payments(Radio Button)

User can select 'Cash Payments' radio button, if customer makes payments from cash. When user enters cash amount that is paid, balance is calculated automatically in the 'Balance' text field. (Figure 3.5.1)

Cheque Payments(Radio Button)

   User can select this radio button, if customer makes payments from cheques.

System user can enter the cheque No and the bank – branch code for relevant text fields.

(Figure 3.5.2)

   After that, a bill is generated including all the details. (Figure 3.5.3)

   Data validation features have been added to this panel. User can't print the bill, if

cash amount is less than the net bill value or entries are invalid for the text fields of Cash,

Cheque No, Bank – Branch Code.

   System user has to enter appropriate data to those text fields to proceed.

3.6. Supplier Payment Panel

Figure 3.6.1

Figure 3.6.2

When a system user wants to pay for an invoice of a supplier, system user can use this panel.

GRN ID(Combo Box)

All the GRN IDs related to the supplier orders that are not paid, load to this combo box. So, the system user can select the relevant GRN ID with the help of the invoice. (Figure 3.6.1)

Consequently relevant payment ID, total bill value, No of products also load to the labels of payment ID, total bill value, No of products respectively. (Figure 3.6.1)

Cash Payments(Radio Button)

User can select 'Cash Payments' radio button, if user makes payments to the supplier from cash.

Cheque Payments(Radio Button)

User can select this radio button, if user makes payments to the supplier from cheques. System user can enter the cheque No for the relevant text field. (Figure 3.6.2)

Finally, user can update 'Supplier Payment' table with cheque No, payment date, paid status by using 'Accept' button.

Data validation features have been added to this panel. User can't save data, if cash amount is less than the total bill value or entries are invalid for the text fields of Cash, Cheque No.

System user has to enter appropriate data to those text fields to proceed.

3.7. Manage Customer Panel

Figure 3.7.1

Basically, user can handle 'Customer' table through this panel.

New Customer(Button)

User can get the customer ID that should come next in the 'Customer' table to the 'Customer ID' label. After filling all the text fields, user can add customer to the 'Customer' table of the database by using the button 'Add New'.

Add New/Remove/Update(Buttons)

System user can perform basic curd operations to the Customer table.

List of Customers(Table)

All the data in the Customer table of the database has loaded to this table.

So, user can easily browse customers. When user selects a customer from this table, all the details related to the customer, load to the relevant text fields. (Figure 3.7.1)

So, user can do basic curd operations such as delete, update. (Figure 3.7.1)

Also, data validation features have been added to the text fields in this panel.

3.8. Manage Product Panel

Figure 3.8.1

Basically, user can handle 'Product' table through this panel.

New Product(Button)

User can get the product ID that should come next in the 'Product' table to the 'Product ID' label. After filling all the text fields, user can add product to the 'Product' table of the database by using the button 'Add New'.

Add New/Remove/Update(Buttons)

System user can perform basic curd operations to the Product table.

List of Products(Table)

All the data in the Product table of the database has loaded to this table.

So, user can easily browse products. When user selects a product from the table, all the details related to the product, load to the relevant text fields. (Figure 3.8.1)

So, user can do basic curd operations such as delete, update. (Figure 3.8.1)

Also, data validation features have been added to the text fields in this panel.

3.9. Manage Supplier Panel

Figure 3.9.1

Basically, user can handle 'Customer' table through this panel.

New Customer(Button)

User can get the supplier ID that should come next in the 'Supplier' table to the 'Supplier ID' label. After filling all the text fields, user can add supplier to the 'Supplier' table of the database by using the button 'Add New'.

Add New/Remove/Update(Buttons)

System user can perform basic curd operations to the Supplier table.

List of Customers(Table)

All the data in the Supplier table of the database has loaded to this table. So, user can easily browse suppliers. When user selects a supplier from the table, all the details related to the supplier, load to the relevant text fields. (Figure 3.9.1)

So, user can do basic curd operations such as delete, update. (Figure 3.9.1) Also, data validation features have been added to the text fields in this panel.

3.10. Daily Sales Report Dialog

Figure 3.10.1

Figure 3.10.2

System user can take transaction reports for a selected day. This report contains daily sales of the sales outlet and it can also be taken as a print out.When user enters a day which the report should be taken, user can visualize the report, if such report exists related to the transaction date. (Figure 3.10.1)

Daily sales table contains the whole qty that was sold, total amount that was earned in sales and net amount that gets after deducting the discounts, for each sold product in the particular entered day. (Figure 3.10.1)

Finally, system user can print this report. (Figure 3.10.2)

Data validation features have been applied in this panel. User can't view any report, unless the entered date matches with the correct date format, mentioned in this panel. System user has been avoided clicking the 'Print Report' button, by disabling that button, if any record does not exist with regard to the 'Daily Sales' table.
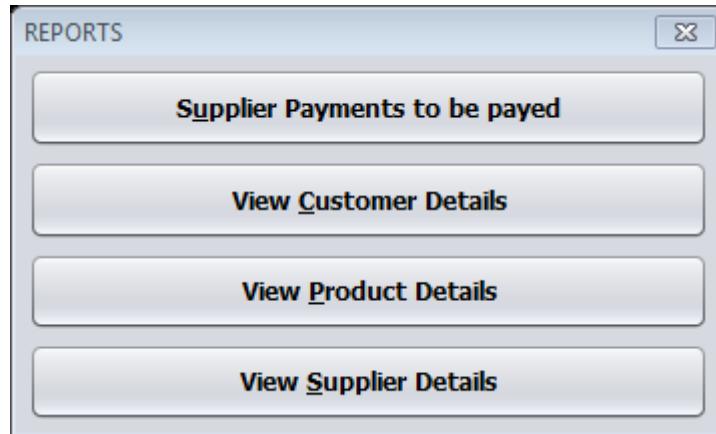
<div align="center">**3.11. Essential Reports Dialog**</div>

<div align="center">**Figure 3.11.1**</div>

Basically user can view essential reports through this dialog. (Figure 3.11.1)

Supplier Payments to be Payed

System user can view suppliers who have not been paid for their supplier orders, loads to this report. The report contains the total number of products that was bought without making payments and total amount that is to be paid for each supplier who are not paid by the sales outlet.

View Customer Details

User can view the 'Customer' table in the database.

View Product Details

User can view the 'Customer' table in the database.

View Supplier Details

User can view the 'Customer' table in the database.

<div align="center">

4. User Friendly Features

</div>

In addition to the above mentioned details, all the panels and dialogs have been included tool - tip texts to make the user convenient in using the features of the UIs and key binding method to use the designed software using key board.