



SP Project - System Design

Diploma in ICT

College of Technology - Ratnapura

Submitted by:

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Requirement for shoe manufacturing institute

“Wing shoe” is a small-scale shoe manufacturing institute which is located in Rathnapura district. They sell ladies slippers as whole sale and also serve walk in customers. They have a shop in Millavitiya.

They accept special orders like wedding shoes. They have 3 types of sales normal, special and whole sale. They give a unique number to every order and the store the customer’s name, Type of order, Item name, unit price, quantity, total price and order date. They keep their customers information. They give a unique number to a customer and the stores their name, telephone number, Gender and customer’s address. Normally they deliver the special orders with a week. They have an inventory for shoes in their stores, they give an ID for each design, they identify shoes uniquely with design id and size. They have 3 to 10 sizes. And also, they store shoe quantity, unit price and manufactured date. They keep a different inventory for their materials. They for materials they give an ID to identify materials uniquely. And also, they store materials name, quantity which are in their stores, date of purchase, unit price, total price and supplier’s name. they keep their supplier’s information. They label their suppliers with supplier id to identify each supplier uniquely. And they keep supplier name, telephone number, address, total amount, paid amount and amount to be paid. Usually, they settle their suppliers bills within a month. When someone buy 12 or more than shoes, they identify it as whole sale and they give a 20% discount for whole sales. their issuing a bill for every order. In their bill they provide date of ordered, type of order, customer name, design name, design id, size, quantity, unit price, total price and type of payment. When someone order a special order, they add an advance payment to the bill.

They don’t have any IT related someone to handle the software so they need a user-friendly system that can easily complete their business activities. They need to start working on the shop system immediately with shoe inventory, customer inventory, order and the billing system.

Requirements

Functional

- System shall have a shoe Inventory and allows to display the inventory, add new shoe designs and quantity which are available in the stores.
- System shall have a Customer Contact list and allows to display, update and add new customer into it.
- System shall have a way to add new order, allow to update it and way to find it.
- When a whole sale order system shall automatically add 20% discount on to it.
- System shall generate an invoice for every order.

Non-Functional

- System must work smoothly without errors.
- Need a user-friendly interface.
- Users should be able to navigate its interface easily
- System needs to have accurate calculations.
- System must be work on windows operating system

System Interfaces

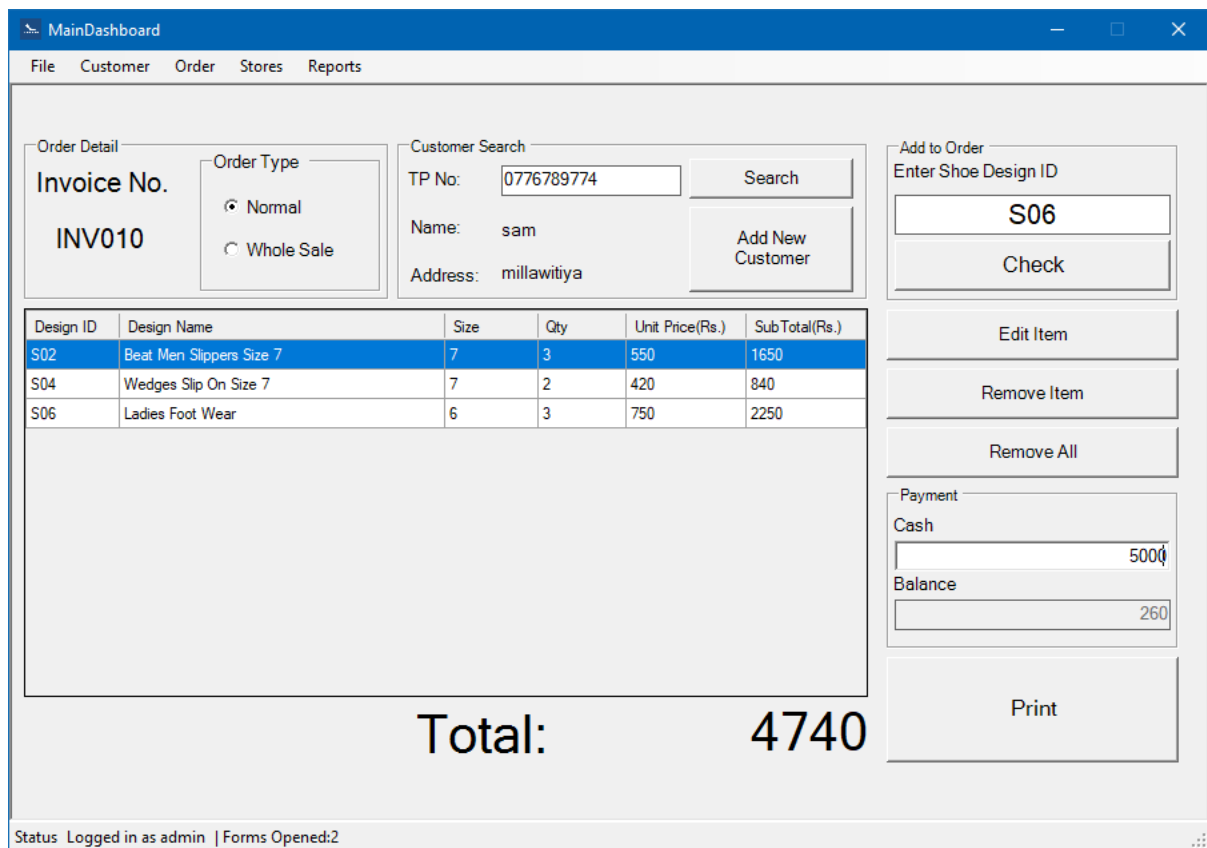
01. Log in form

The screenshot shows a web application window titled "MainDashboard". The top navigation bar includes "File", "Customer", "Order", "Stores", and "Reports". The main content area is split into two sections. On the left, there is a large image of a blue high-heeled shoe with a colorful floral pattern, shown from a side profile and a top-down perspective. On the right, the "Wing Shoe Billing System" login form is displayed. It includes fields for "UserName" and "Password", a "Show password" checkbox, and a "Log in" button. The status bar at the bottom indicates "Status Logged in as No One Forms".

02. MDI Home Form

The screenshot shows a web application window titled "MainDashboard". The top navigation bar includes "File", "Customer", "Order", "Stores", and "Reports". The main content area is divided into three sections. On the left, there is a "Shoe Search" section with a "Shoe Search" input field and a "Search" button. In the center, there is a large image of a blue and white athletic shoe. On the right, there are three sections of buttons: "Order" (New Order, View Order History, Edit Orders), "Shoe Store" (Update Store, Store Report), and "Customer" (Update Customer List, View Customer List). The status bar at the bottom indicates "Status Logged in as admin | Forms Opened:1".

a. Invoice form



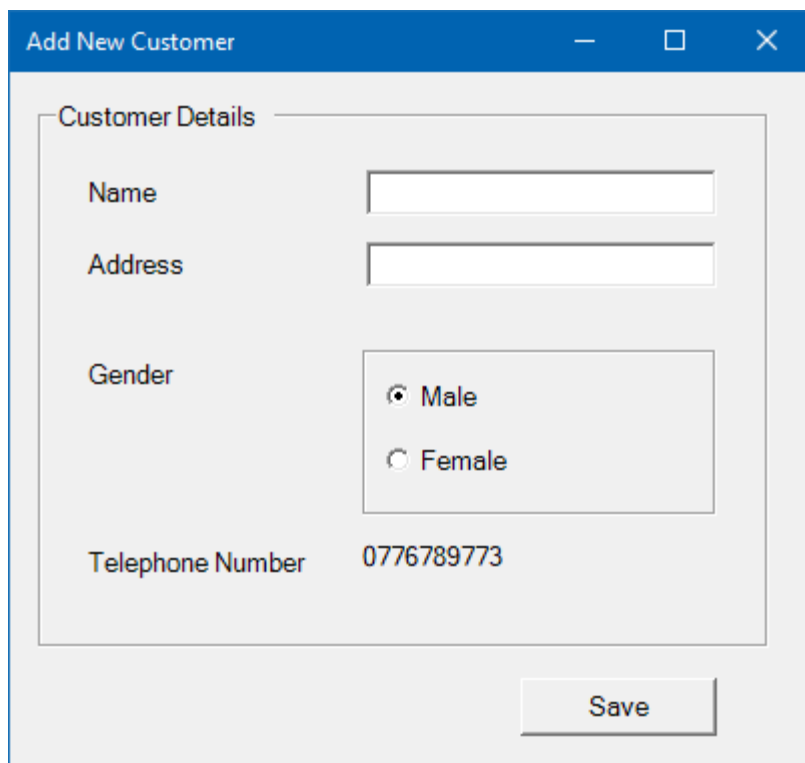
The screenshot shows the 'MainDashboard' application window. The top menu bar includes 'File', 'Customer', 'Order', 'Stores', and 'Reports'. The main content area is divided into several sections:

- Order Detail:** Displays 'Invoice No. INV010'.
- Order Type:** Radio buttons for 'Normal' (selected) and 'Whole Sale'.
- Customer Search:** Fields for 'TP No.' (0776789774), 'Name' (sam), and 'Address' (millawitiya). Includes 'Search' and 'Add New Customer' buttons.
- Add to Order:** 'Enter Shoe Design ID' field with 'S06' entered, and a 'Check' button.
- Table:** A table with 6 columns: Design ID, Design Name, Size, Qty, Unit Price(Rs.), and SubTotal(Rs.). It lists three items: S02 (Beat Men Slippers Size 7), S04 (Wedges Slip On Size 7), and S06 (Ladies Foot Wear).
- Payment:** 'Cash' field with '5000' entered, 'Balance' field with '260' entered, and a 'Print' button.
- Total:** Large text display showing 'Total: 4740'.

The status bar at the bottom indicates 'Status: Logged in as admin | Forms Opened:2'.

Design ID	Design Name	Size	Qty	Unit Price(Rs.)	SubTotal(Rs.)
S02	Beat Men Slippers Size 7	7	3	550	1650
S04	Wedges Slip On Size 7	7	2	420	840
S06	Ladies Foot Wear	6	3	750	2250

b. Add New Customer Form



The screenshot shows the 'Add New Customer' form window. It contains the following fields and controls:

- Customer Details:**
 - Name:** Text input field.
 - Address:** Text input field.
 - Gender:** Radio buttons for 'Male' (selected) and 'Female'.
 - Telephone Number:** Text input field with the value '0776789773'.
- Save:** A button at the bottom right of the form.

c. Add items to order form

Item Add

Design ID	Design Name	Size	In stock	Unit Price(Rs.)
S06	HighHeels	5	10	750
S06	Ladies Foot Wear	6	13	750

Quantity

Subtotal

Add to order

i. Add quantity form

frmAddQuantity

Design ID

S02

Name

Beat Men Slippers Size 7

Size

7

Stock

32

Unit Price

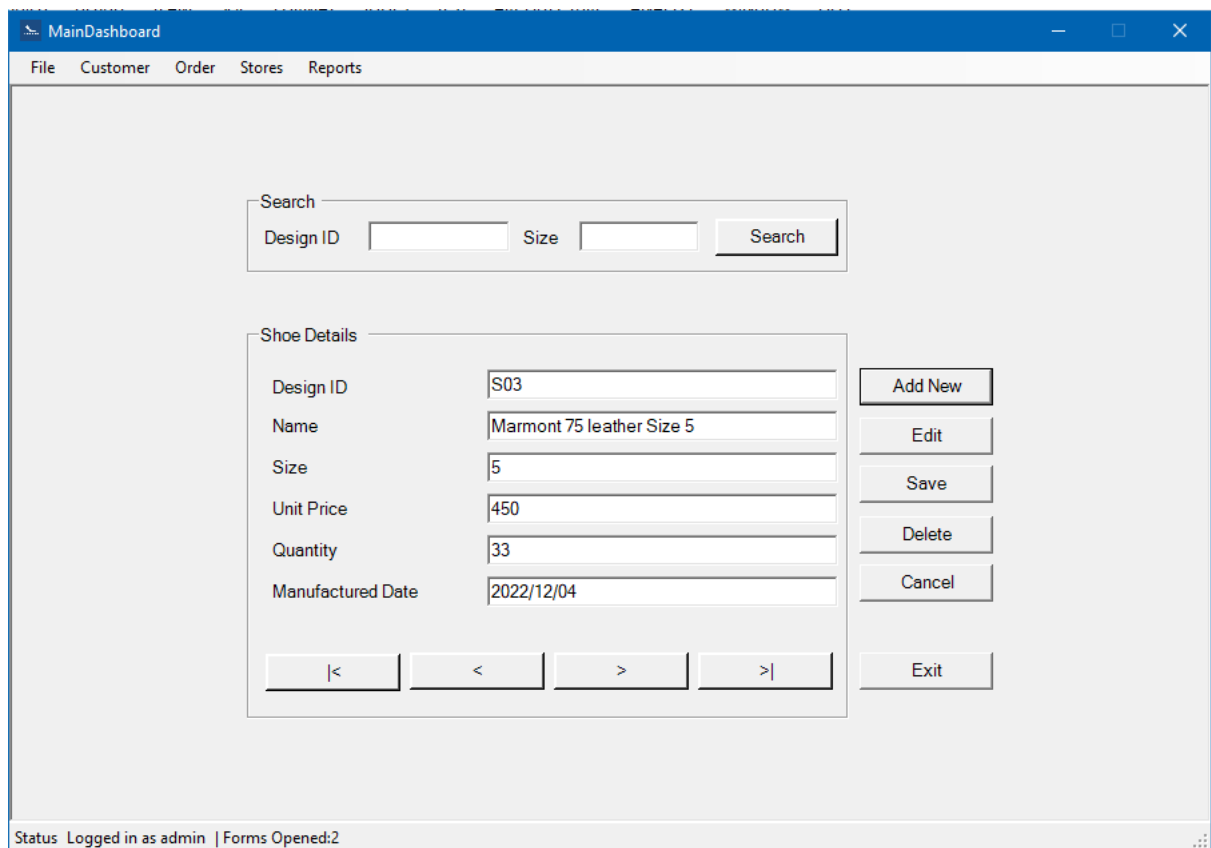
550

Quantity

Subtotal

Add

03. Store Update Form



The screenshot shows a web application window titled "MainDashboard" with a menu bar containing "File", "Customer", "Order", "Stores", and "Reports". The main content area features a "Search" section with input fields for "Design ID" and "Size", and a "Search" button. Below this is a "Shoe Details" form with the following fields: "Design ID" (S03), "Name" (Marmont 75 leather Size 5), "Size" (5), "Unit Price" (450), "Quantity" (33), and "Manufactured Date" (2022/12/04). To the right of the form are buttons for "Add New", "Edit", "Save", "Delete", "Cancel", and "Exit". At the bottom of the form are navigation buttons: "<|", "<", ">", and ">|". The status bar at the bottom indicates "Status: Logged in as admin | Forms Opened:2".

Search

Design ID Size

Shoe Details

Design ID

Name

Size

Unit Price

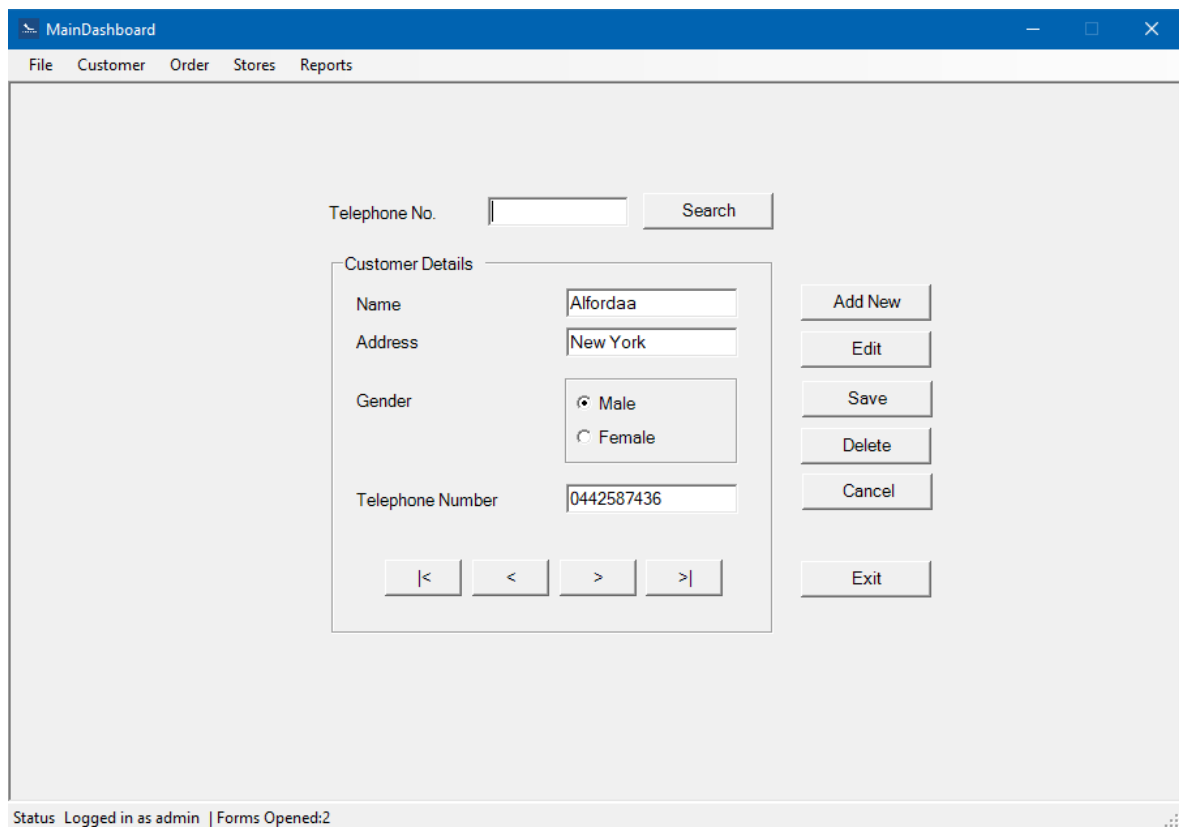
Quantity

Manufactured Date

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Status: Logged in as admin | Forms Opened:2

04. Customer Update Form



The screenshot shows a web application window titled "MainDashboard" with a menu bar containing "File", "Customer", "Order", "Stores", and "Reports". The main content area features a "Telephone No." section with an input field and a "Search" button. Below this is a "Customer Details" form with the following fields: "Name" (Alfordaa), "Address" (New York), "Gender" (Male selected), and "Telephone Number" (0442587436). To the right of the form are buttons for "Add New", "Edit", "Save", "Delete", "Cancel", and "Exit". At the bottom of the form are navigation buttons: "<|", "<", ">", and ">|". The status bar at the bottom indicates "Status: Logged in as admin | Forms Opened:2".

Telephone No.

Customer Details

Name

Address

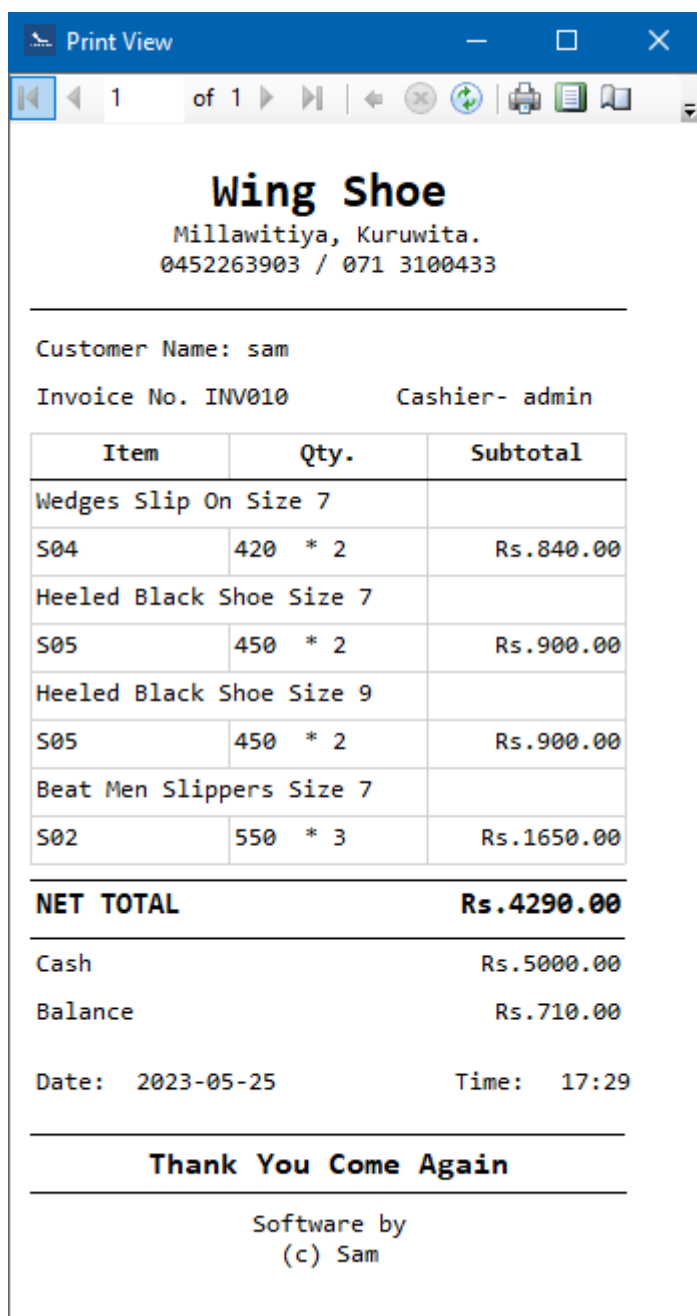
Gender ☒ Male ☐ Female

Telephone Number

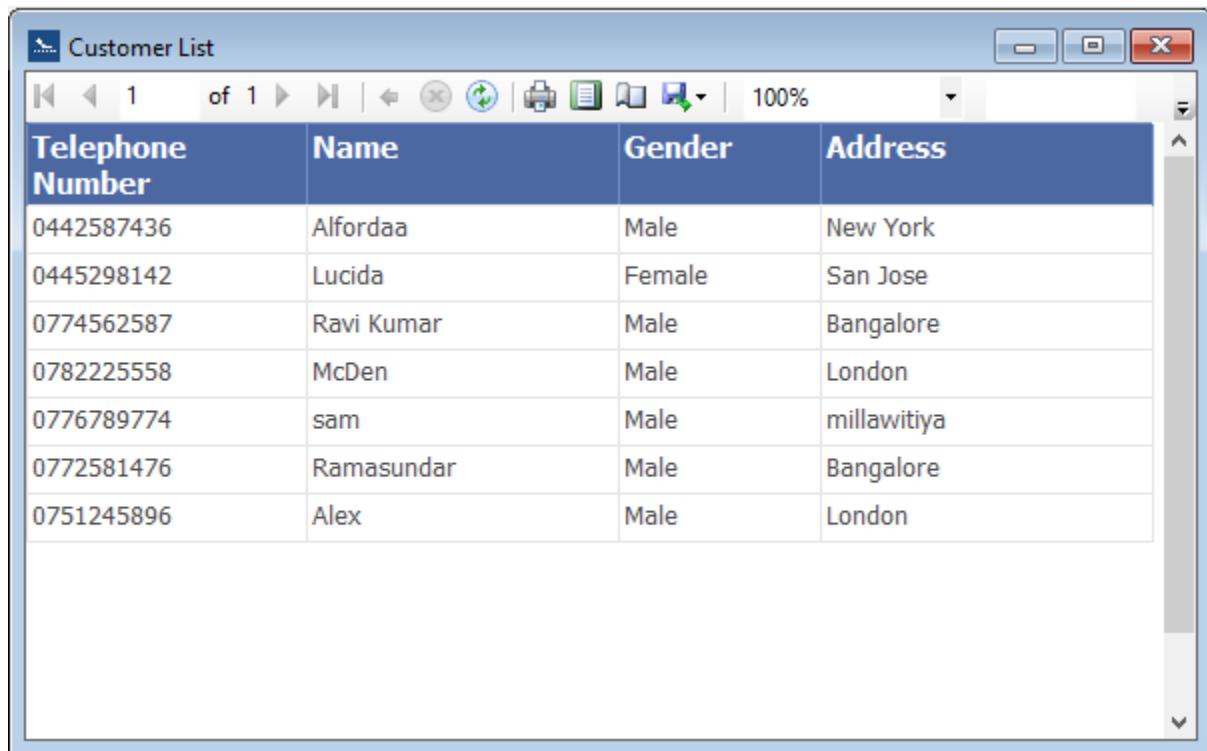
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Status: Logged in as admin | Forms Opened:2

a. Invoice



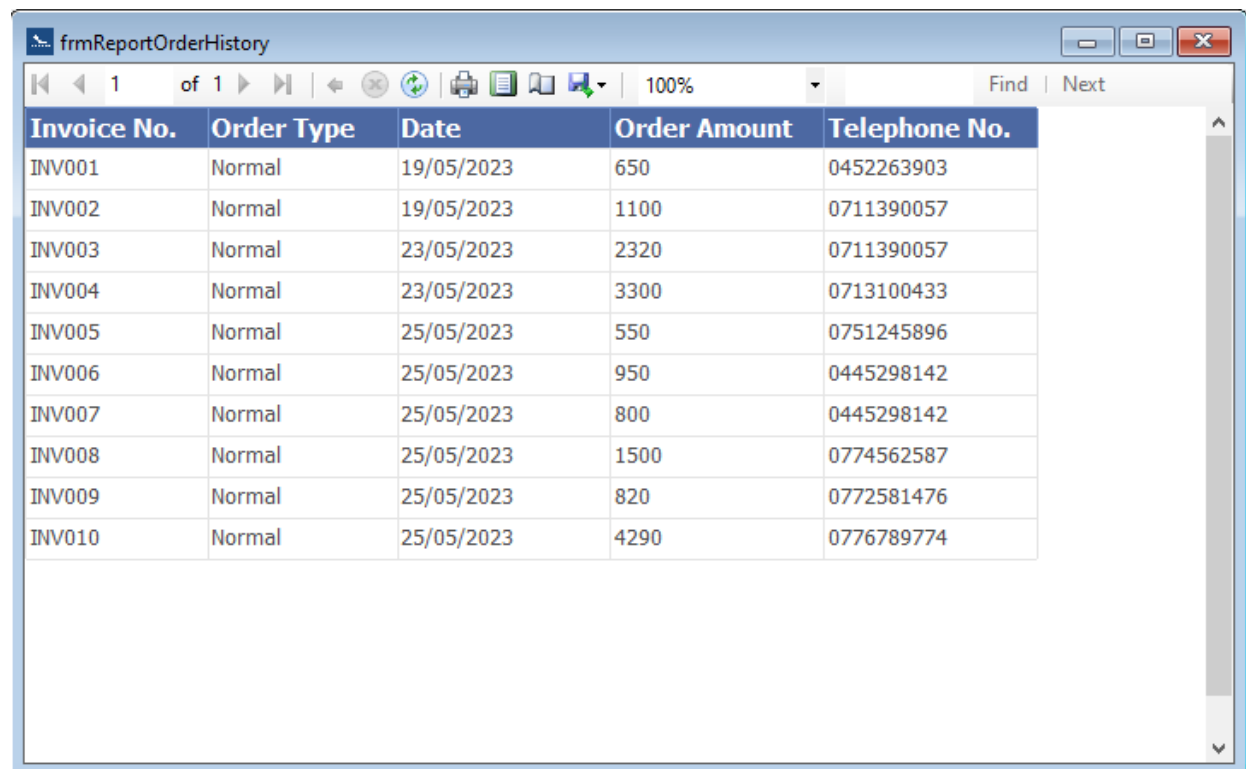
b. Customer Report



Customer List

Telephone Number	Name	Gender	Address
0442587436	Alfordaa	Male	New York
0445298142	Lucida	Female	San Jose
0774562587	Ravi Kumar	Male	Bangalore
0782225558	McDen	Male	London
0776789774	sam	Male	millawitiya
0772581476	Ramasundar	Male	Bangalore
0751245896	Alex	Male	London

c. Order History



frmReportOrderHistory

Invoice No.	Order Type	Date	Order Amount	Telephone No.
INV001	Normal	19/05/2023	650	0452263903
INV002	Normal	19/05/2023	1100	0711390057
INV003	Normal	23/05/2023	2320	0711390057
INV004	Normal	23/05/2023	3300	0713100433
INV005	Normal	25/05/2023	550	0751245896
INV006	Normal	25/05/2023	950	0445298142
INV007	Normal	25/05/2023	800	0445298142
INV008	Normal	25/05/2023	1500	0774562587
INV009	Normal	25/05/2023	820	0772581476
INV010	Normal	25/05/2023	4290	0776789774

Relationship Diagram

