ITALIANO HUB MANAGEMENT SYSTEM

Using

VB.NET 2010

SQL SERVER 2008

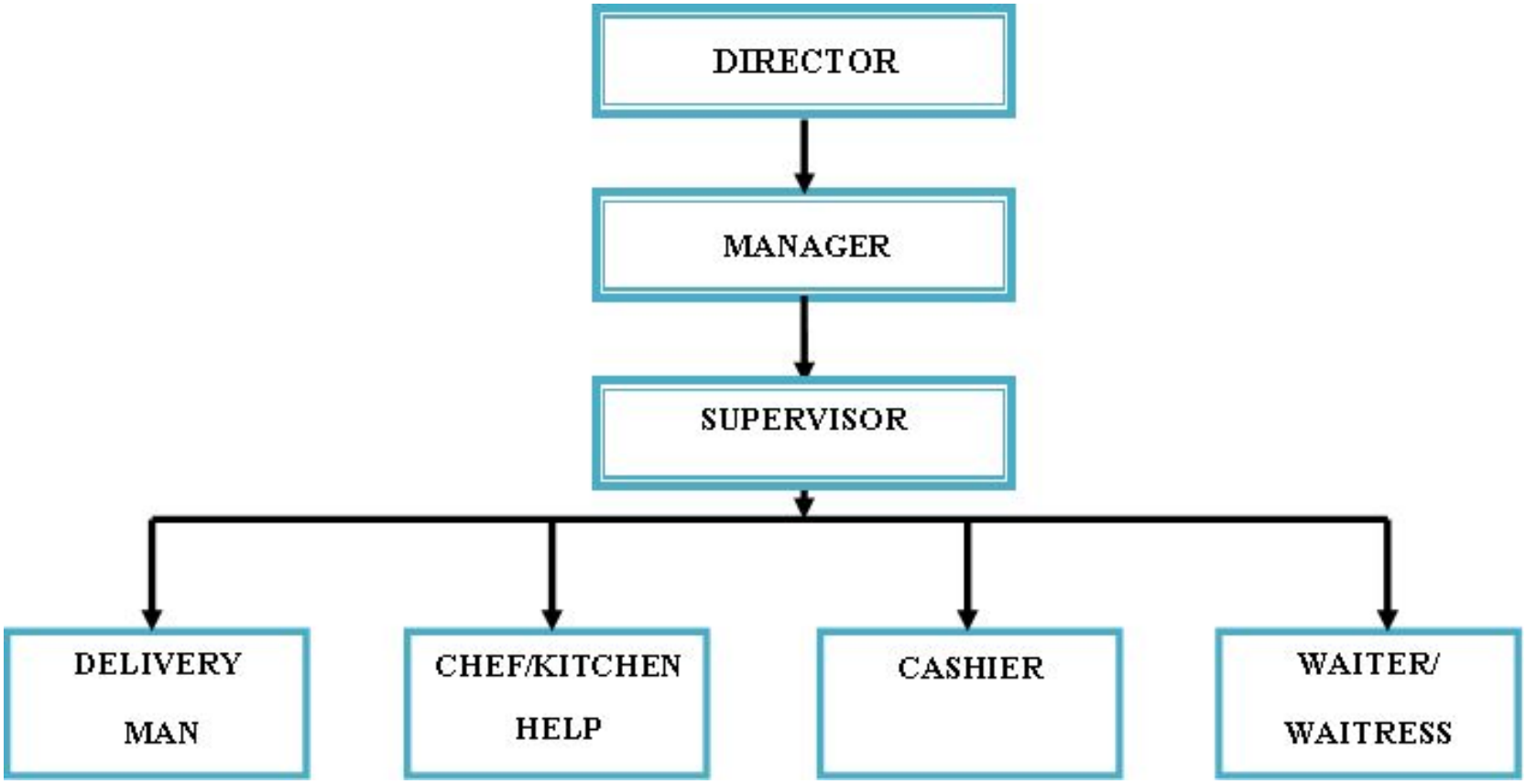
INRTODUCTION

- Italiano Hub Management System is a software that integrates all the activities of a restaurant. It is the solution of many complex tasks done in this field.
- With the help of this project, time, money and resources can be saved and gives a promised service to customers.
- All the information stored in the computer can be easily retrieved by giving simple commands.
- The project is designed according to the requirements of the user.

OBJECTIVE

- The objective of Italiano Hub Management System is to provide the user with a user friendly software that makes the process of maintaining records easy, systematic and fast.
- It speeds up the ordering process. Instead of noting down the details on a paper, the user can store it in the system and retrieve it as per the requirement.
- It keeps customer as well as order record.
- Unauthorised access is prevented.
- User friendly interface
- It reduces paper work and the load on the staff.

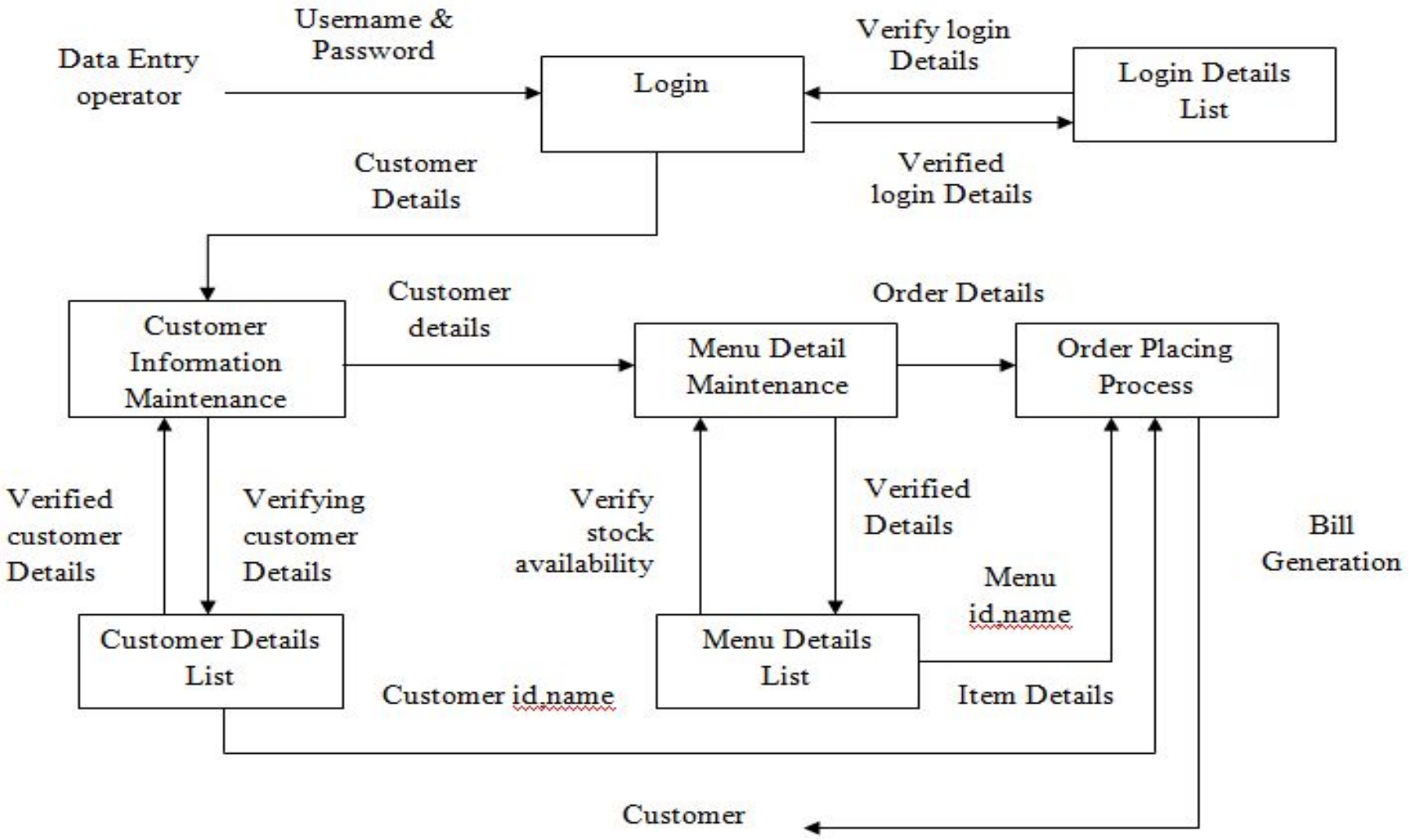
ORGANISATIONAL STRUCTURE



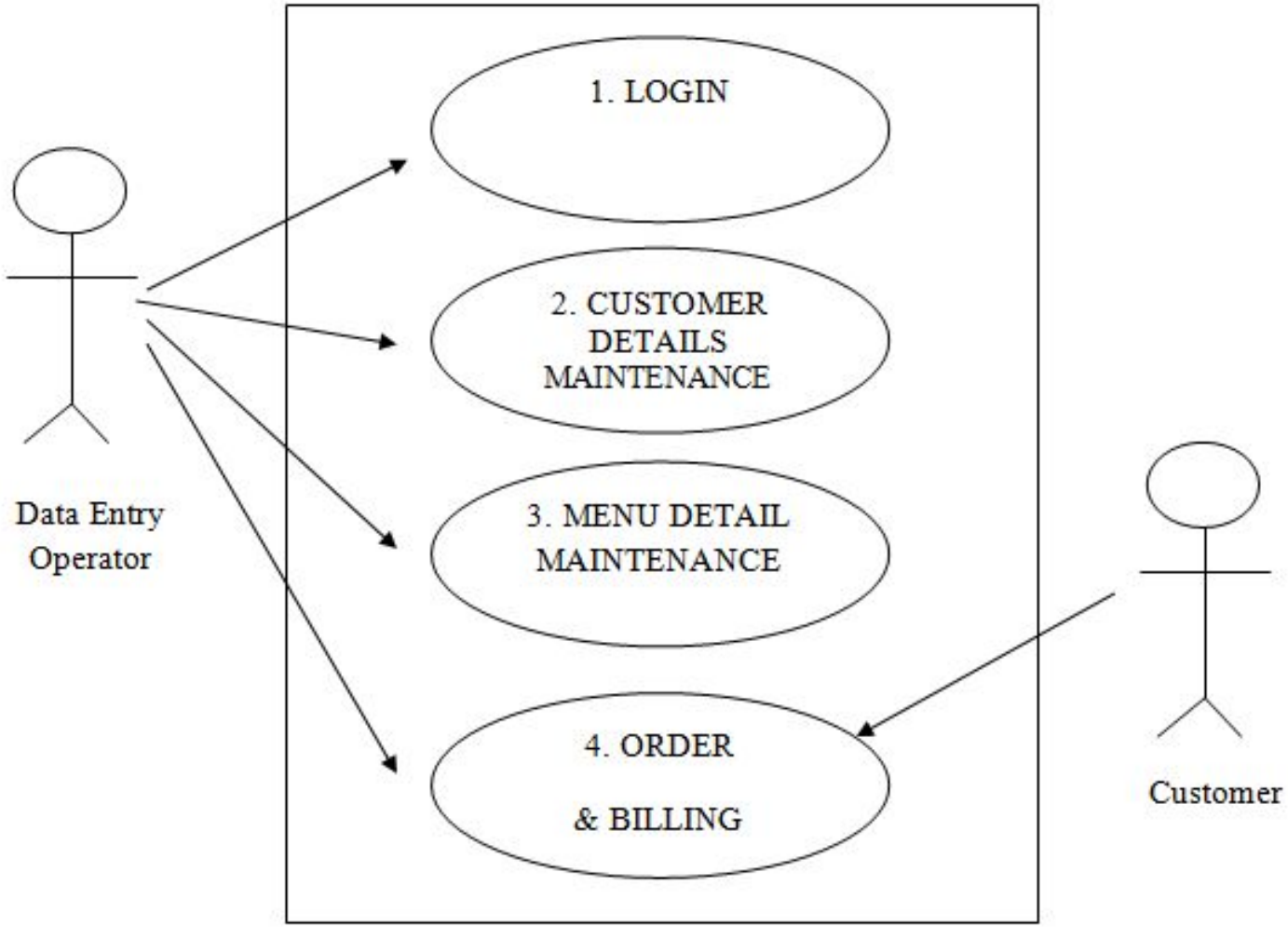
LIST OF PROCESSES

- Login Process
- Customer Details Maintenance Process
- Menu Details Maintenance Process
- Order and Billing Process

Block Diagram of The System

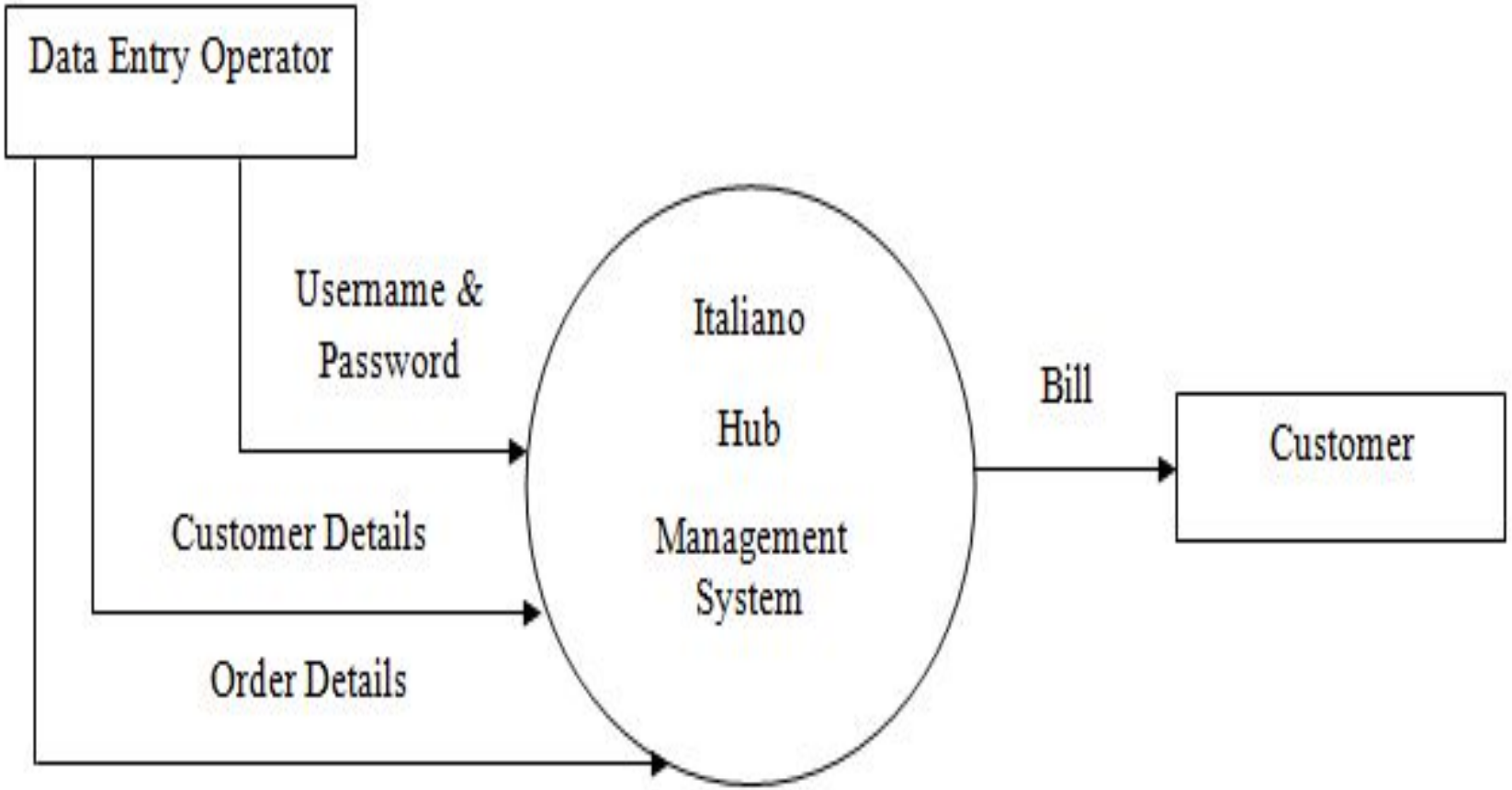


USE CASE DIAGRAM

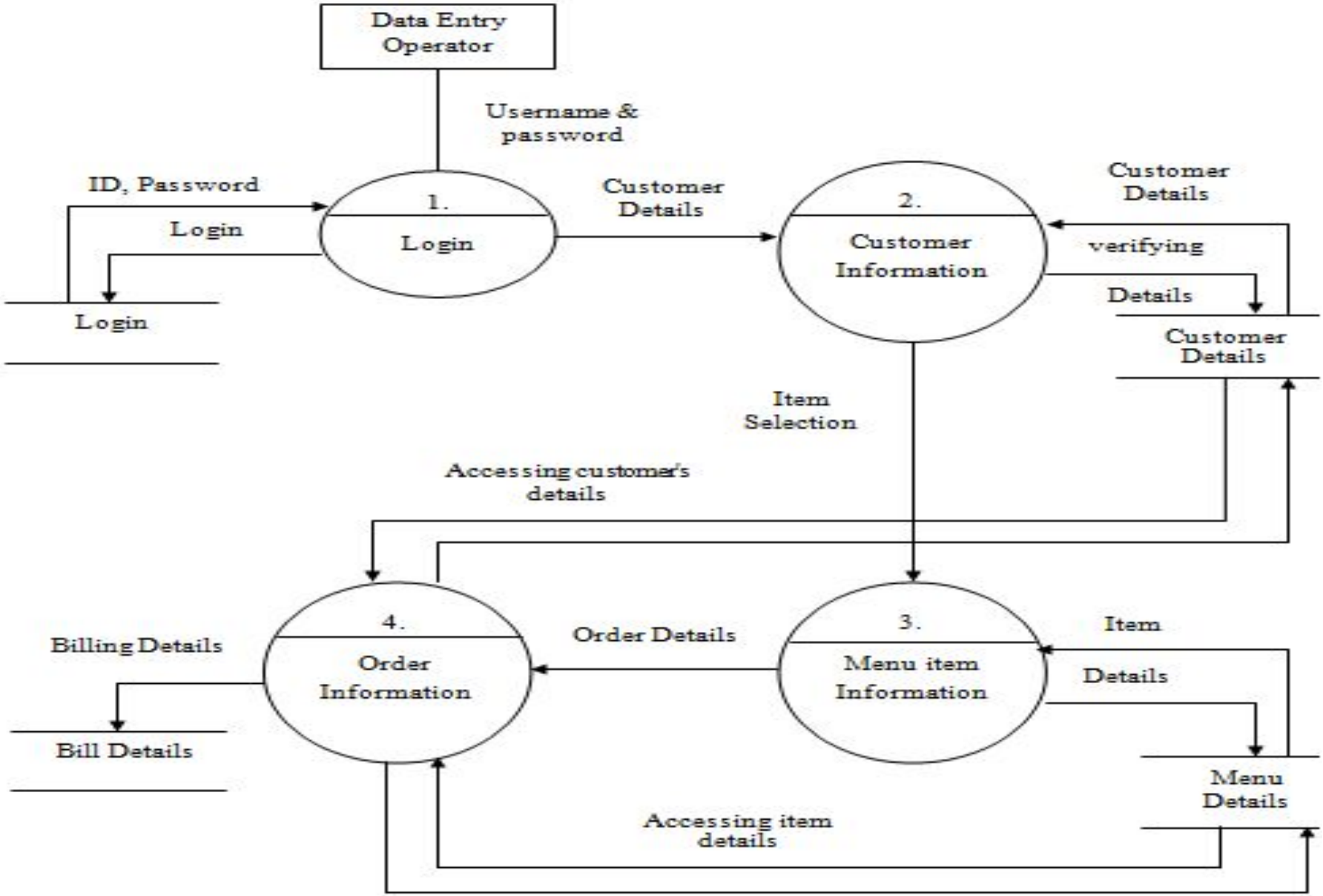


DATA FLOW DIAGRAM

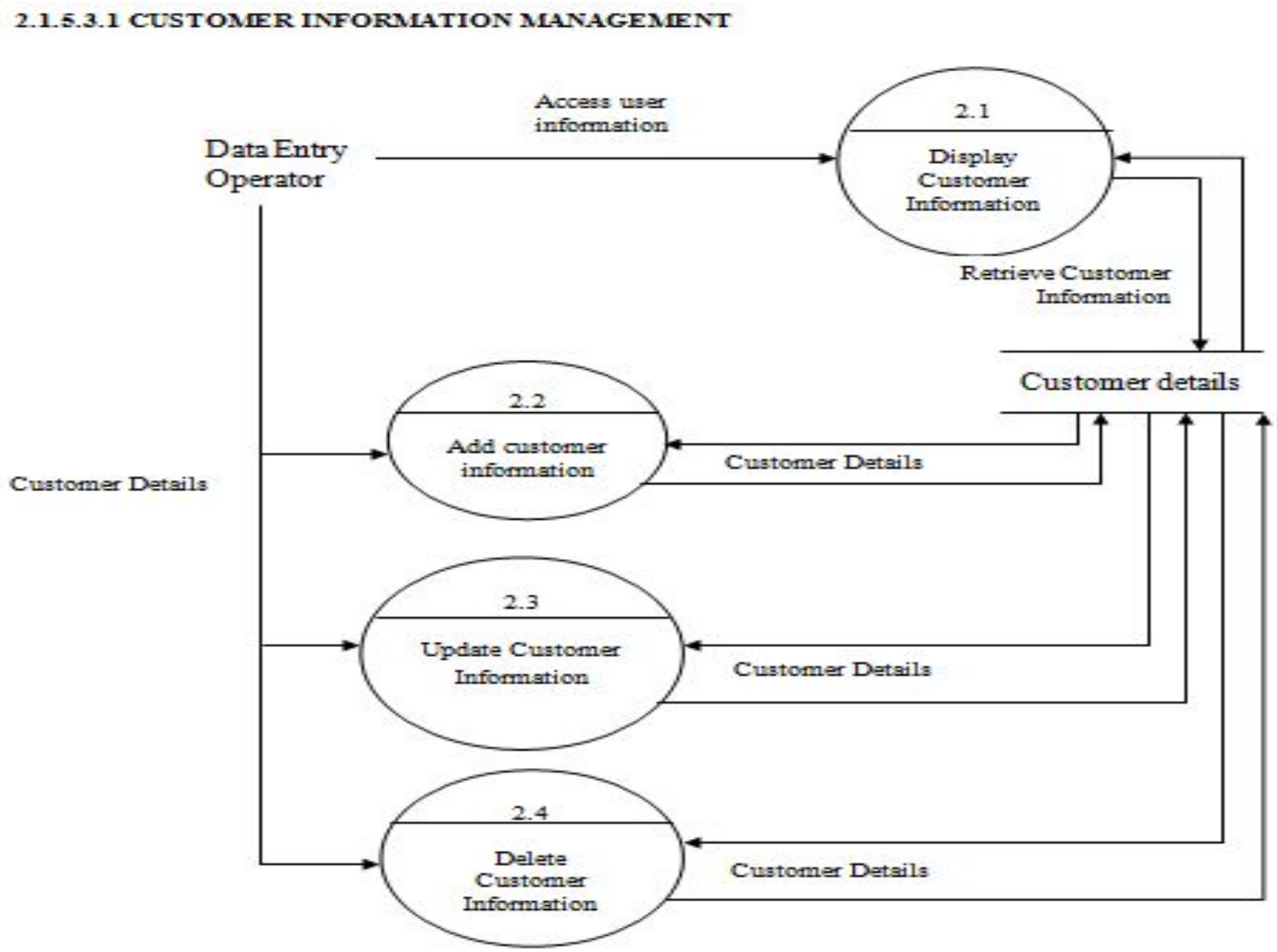
DFD (LEVEL – **0**)


Data Entry Operator
Username &
Password
Customer Details
Order Details
Italiano
Hub
Management
System
Bill
Customer

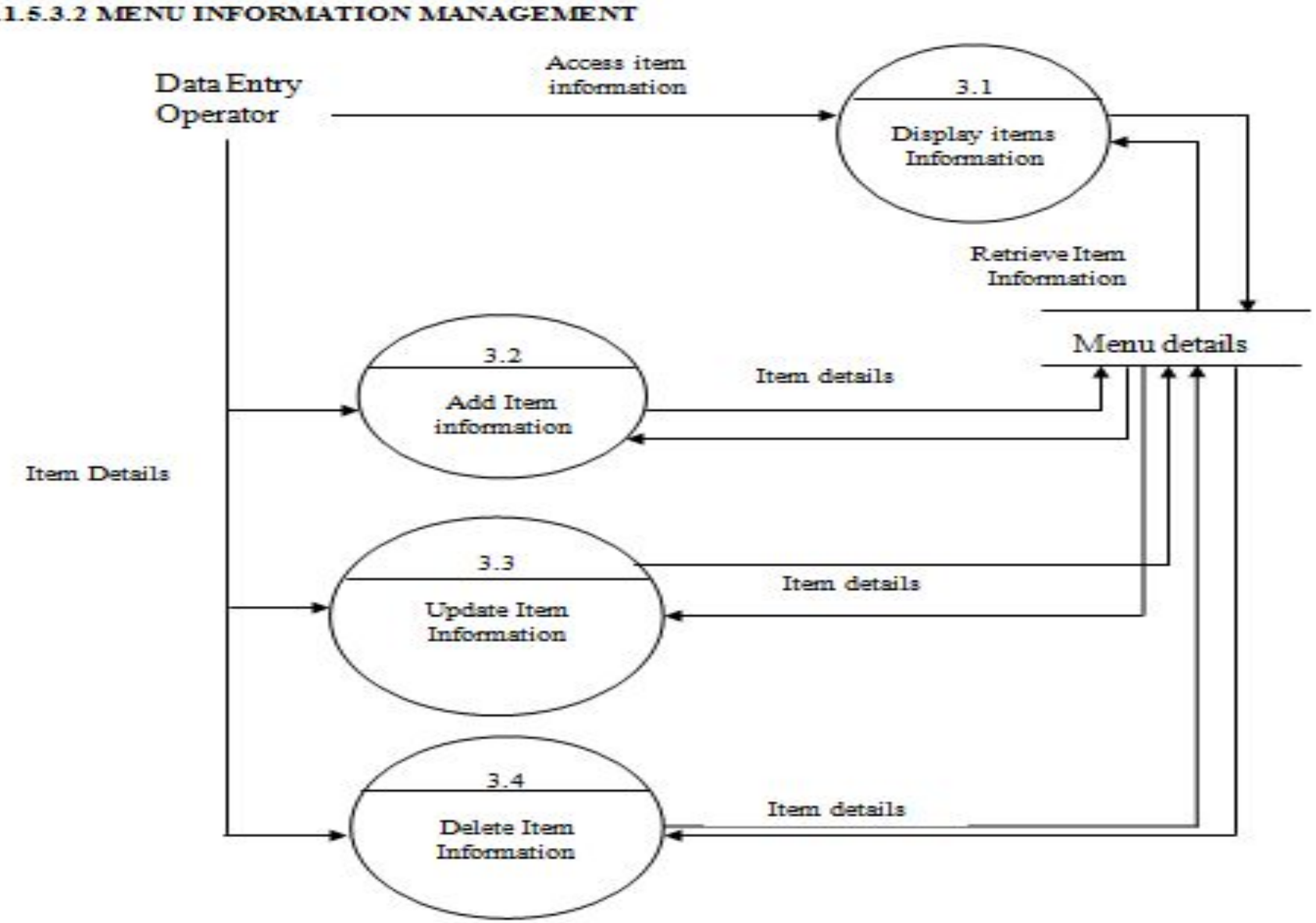
DFD (LEVEL – 1)


Data Entry Operator
Username & password
ID, Password
Login
1.
Login
Login
Customer Details
2.
Customer Information
Customer Details
verifying
Details
Customer Details
Item Selection
Accessing customer's details
4.
Order Information
Billing Details
Bill Details
Order Details
3.
Menu item Information
Item
Details
Menu Details
Accessing item details

DFD (LEVEL – 2)

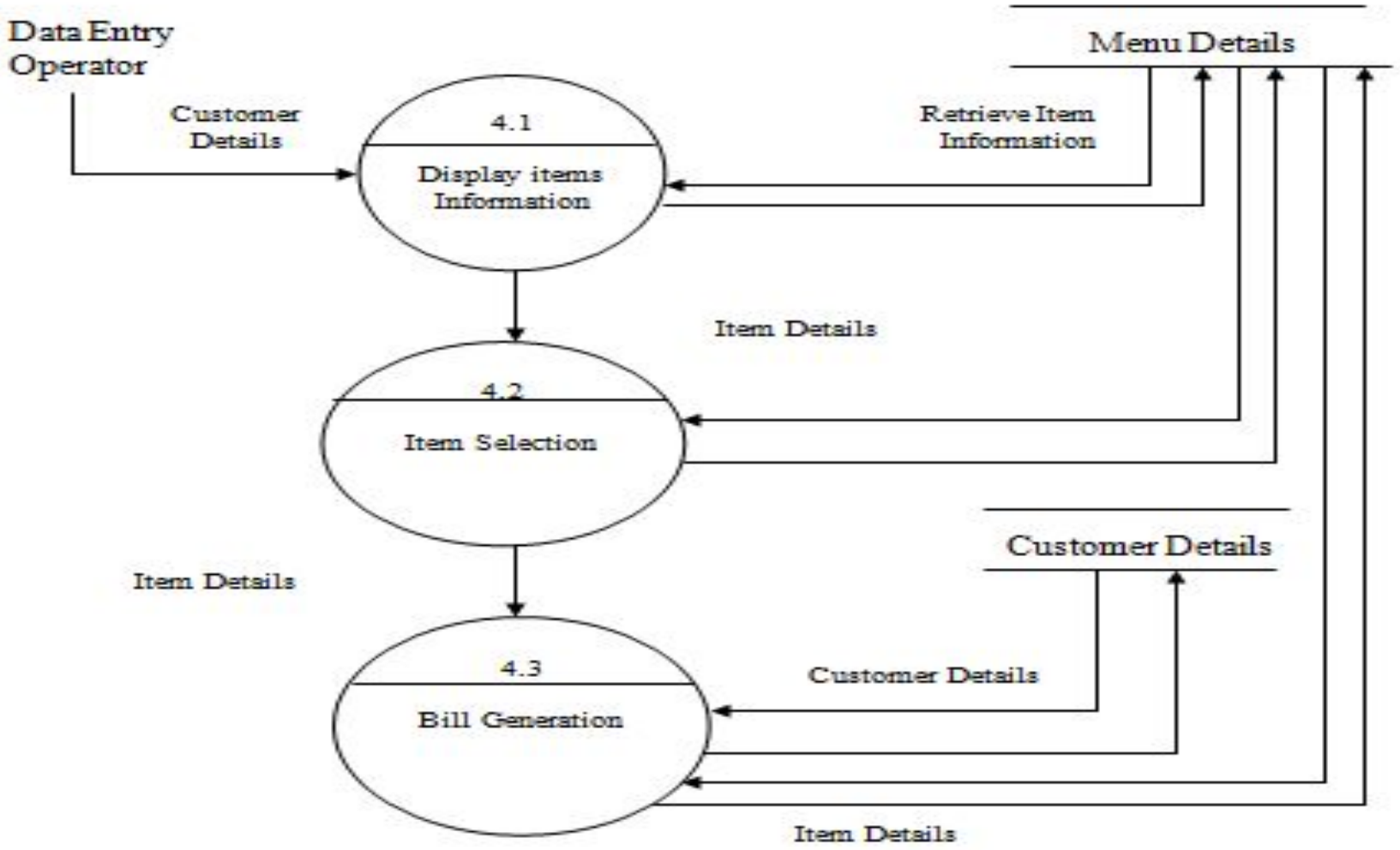

2.1.5.3.1 CUSTOMER INFORMATION MANAGEMENT
Access user information
Data Entry Operator
2.1
Display Customer Information
Retrieve Customer Information
Customer details
2.2
Add customer information
Customer Details
Customer Details
2.3
Update Customer Information
Customer Details
2.4
Delete Customer Information
Customer Details

DFD (LEVEL – 2)

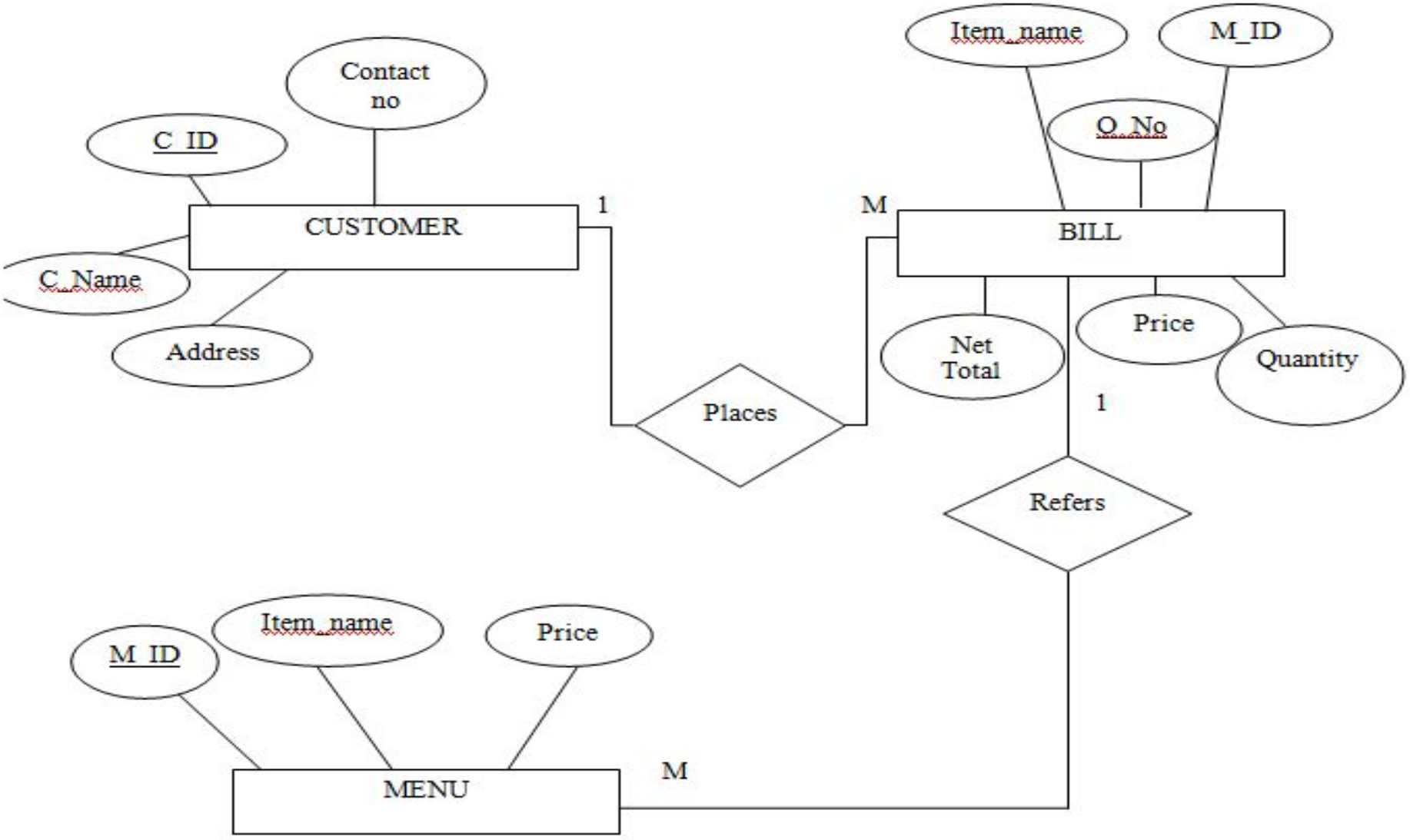

2.1.5.3.2 MENU INFORMATION MANAGEMENT
Data Entry Operator
Access item information
3.1
Display items Information
Retrieve Item Information
Menu details
3.2
Add Item information
Item details
Item Details
3.3
Update Item Information
Item details
3.4
Delete Item Information
Item details

DFD (LEVEL – 2)

2.1.5.3.3 CUSTOMER'S ITEM CHOICE INFORMATION MANAGEMENT / ORDER MANAGEMENT



ER-DIAGRAM


Item_name
M_ID
Contact no
O_No
C_ID
CUSTOMER
1
M
BILL
C_Name
Address
Net Total
Price
Quantity
Places
1
Refers
Item_name
M_ID
Price
MENU
M

DATABASES

LOGIN TABLE

COLUMN NAME	FIELD TYPE	SIZE	PRIMARY KEY	NULL	DESCRIPTION
Username	Varchar	50	Yes	NOT NULL	Username
Password	Varchar	50	No	NOT NULL	Password

TABLE 1: LOGIN TABLE

CUSTOMER RECORD TABLE

COLUMN NAME	FIELD TYPE	SIZE	PRIMARY KEY	NULL	DESCRIPTION
C_ID	Numeric	-	Yes	NOT NULL	Unique ID of the customer
C_Name	Varchar	50	No	NOT NULL	Name of the customer
Address	Varchar	50	No	NOT NULL	Address Of customer
Contact_No	Bigint	-	No	NOT NULL	Phone number of the customer

TABLE 2:CUSTOMER RECORD TABLE

MENU RECORD TABLE

COLUMN NAME	FIELD TYPE	SIZE	PRIMARY KEY	NULL	DESCRIPTION
M_ID	Numeric	-	Yes	NOT NULL	ID of Menu Item
M_Name	Varchar	50	No	NOT NULL	Name Of Menu Item
Price	Money	-	No	NOT NULL	Price Of the item

TABLE 3:MENU RECORD TABLE

ORDER AND BILL TABLE

COLUMN NAME	FIELD TYPE	SIZE	PRIMARY KEY	NULL	DESCRIPTION
O_NO	Int	-	Yes	NOT NULL	Order number
M_ID	nvarchar	MAX	No	NOT NULL	Menu Item ID
Item_Name	Varchar	40	No	NOT NULL	Name Of Item
Quantity	Number	-	No	NOT NULL	Quantity Of Item Ordered
Price	Money	-	No	NOT NULL	Price Per Item
Net Total	Money	-	No	NOT NULL	Quantity * Price

TABLE 4:ORDER AND BILL TABLE

VALIDATIONS

- In case of menu item deletion, Menu ID cannot be left empty.
- For updating or adding a menu item, fields cannot be left empty.
- To delete a customer, the user must provide the customer ID.
- For updating or adding a customer, fields cannot be left empty.
- There is a validity check for username and password.

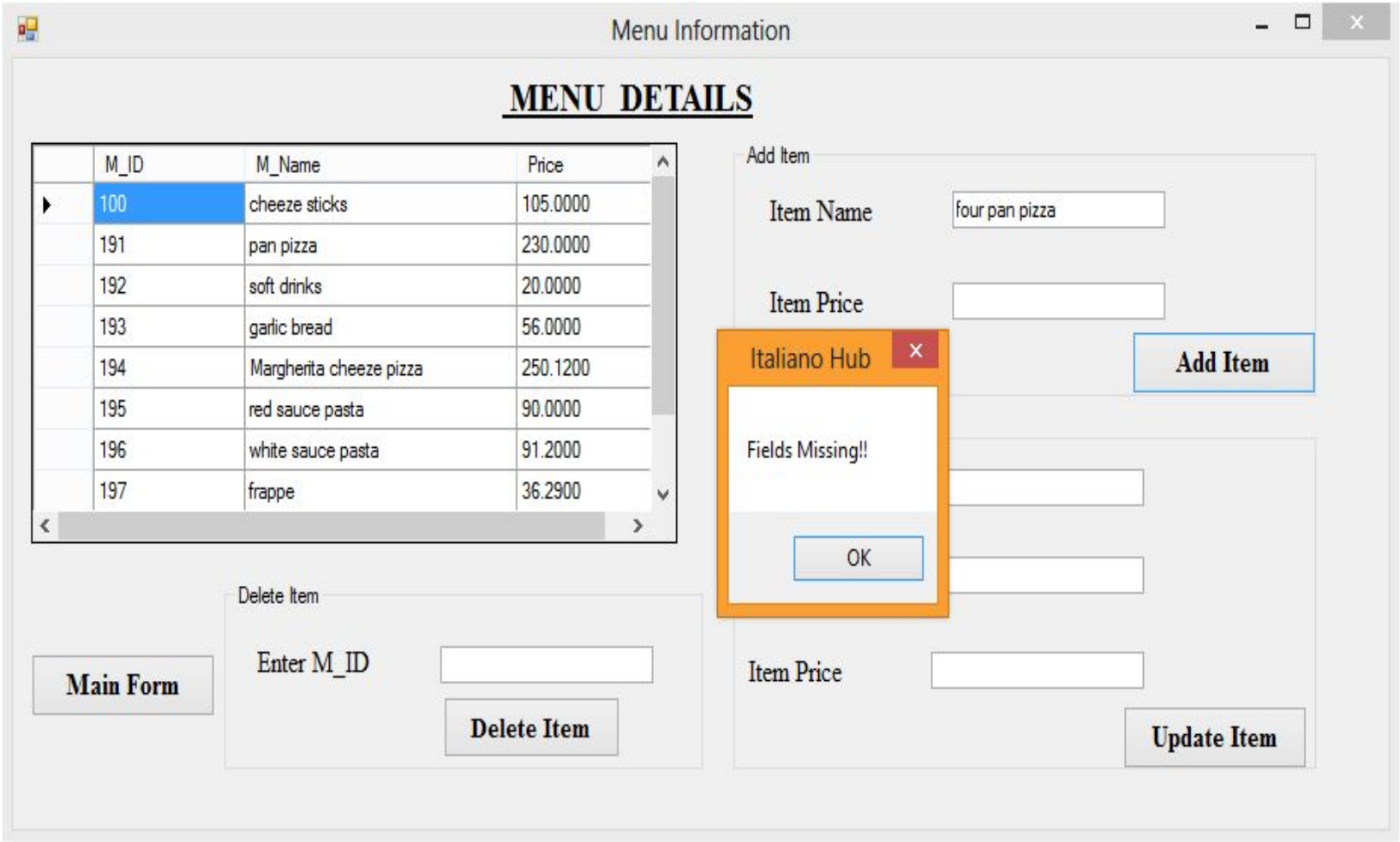
PROGRAM EXECUTION

LOGIN FORM

Login
ITALIANO HUB MANAGEMENT SYSTEM
Invalid Username or Password!!!!
OK
LOGIN
Username:
italiano
Password:
Login
Cancel
System developed by Saloni Pharma and Sakshi Dewangan

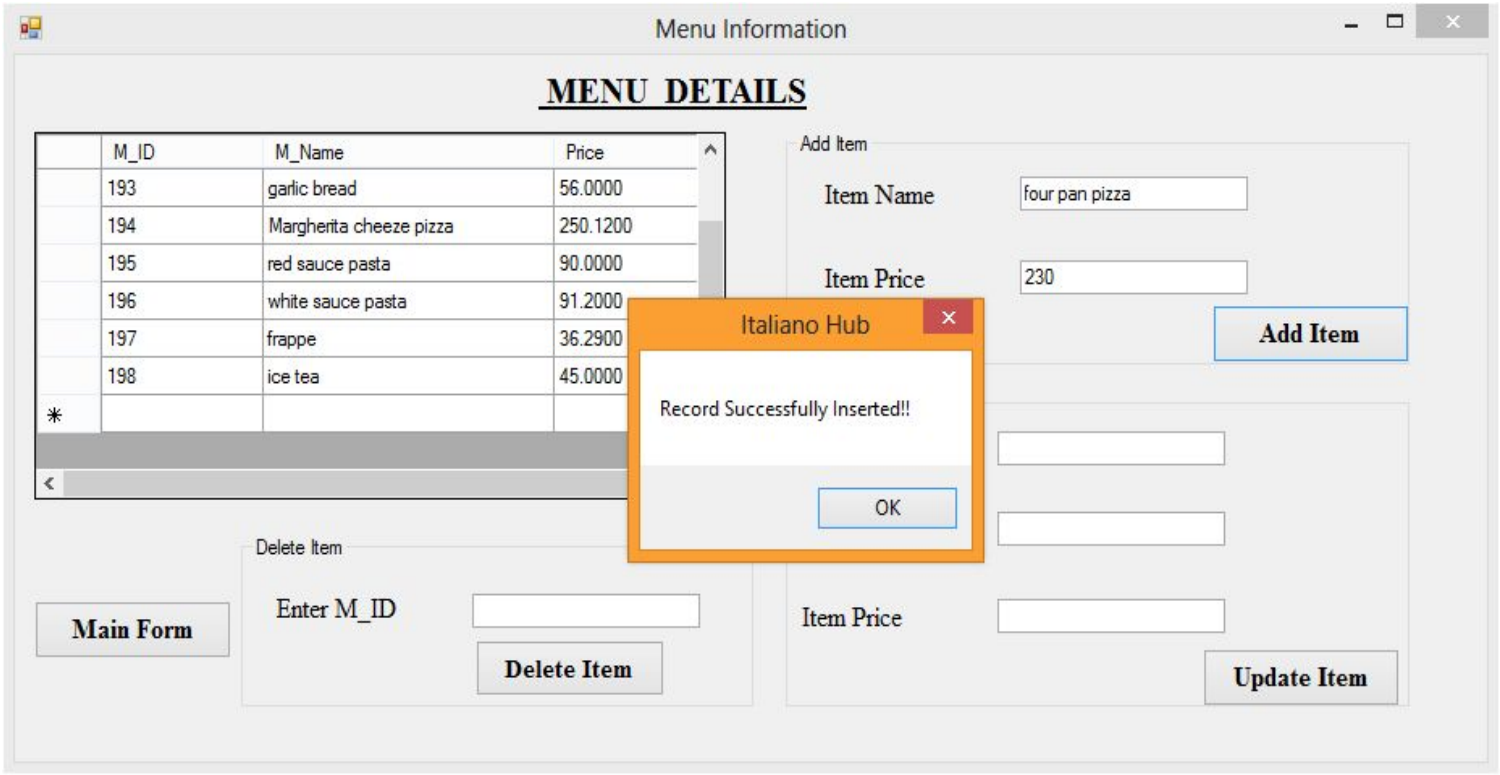
NAVIGATION FORM

MENU DETAILS FORM

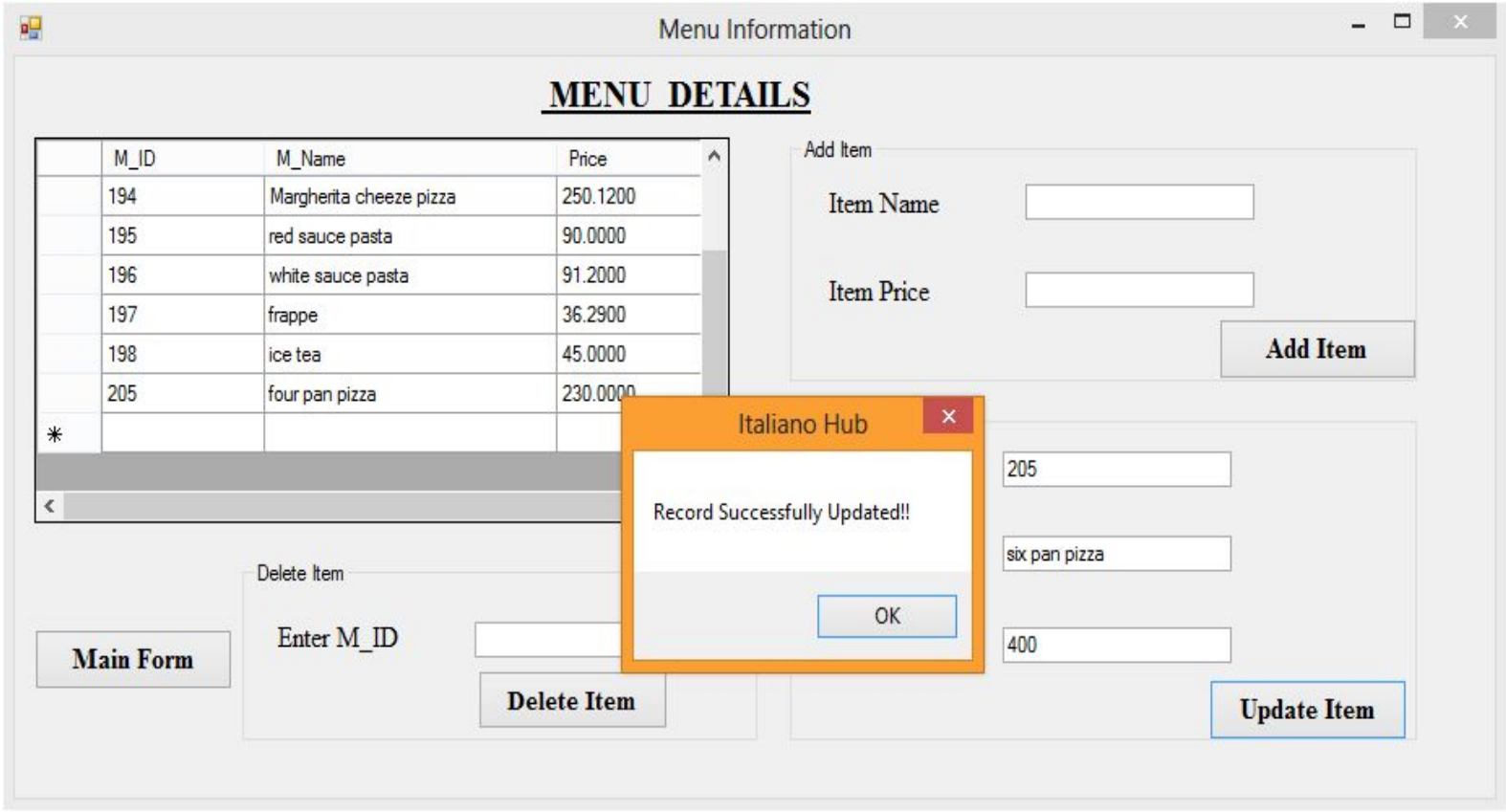


SUB-PROCESSES UNDER MENU FORM

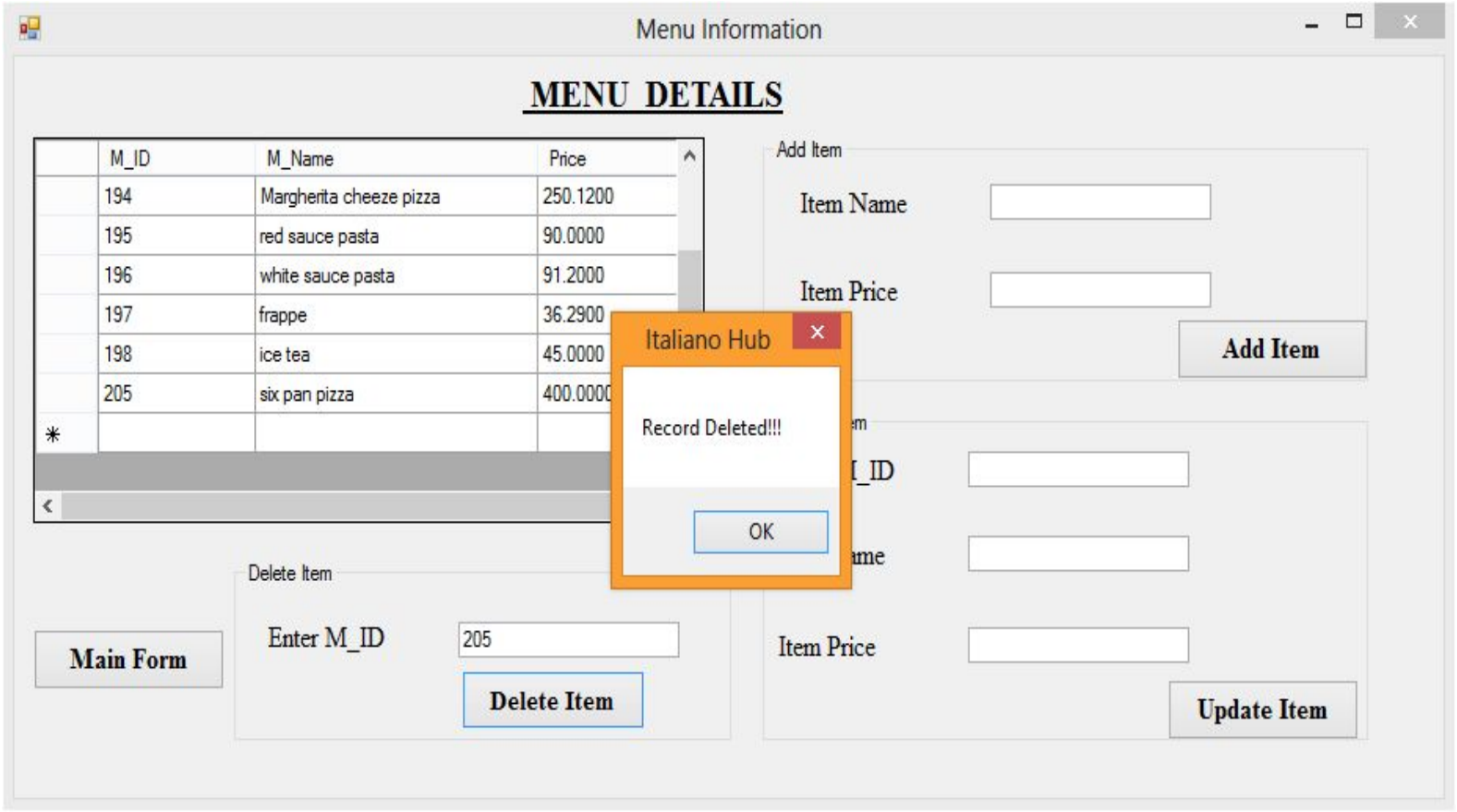
- **INSERTING RECORDS**



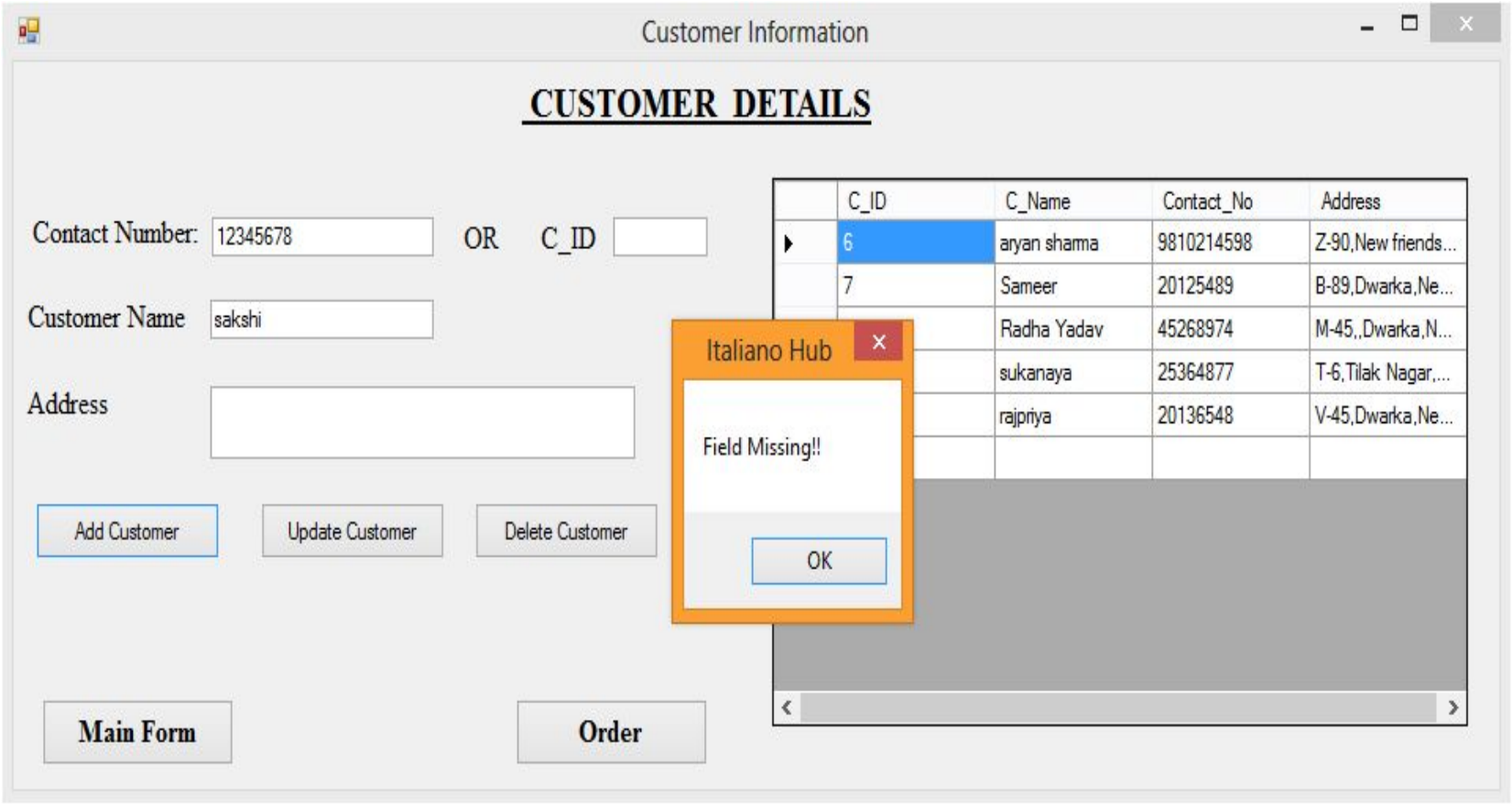
- **UPDATING RECORDS**



- **DELETION OF RECORDS**

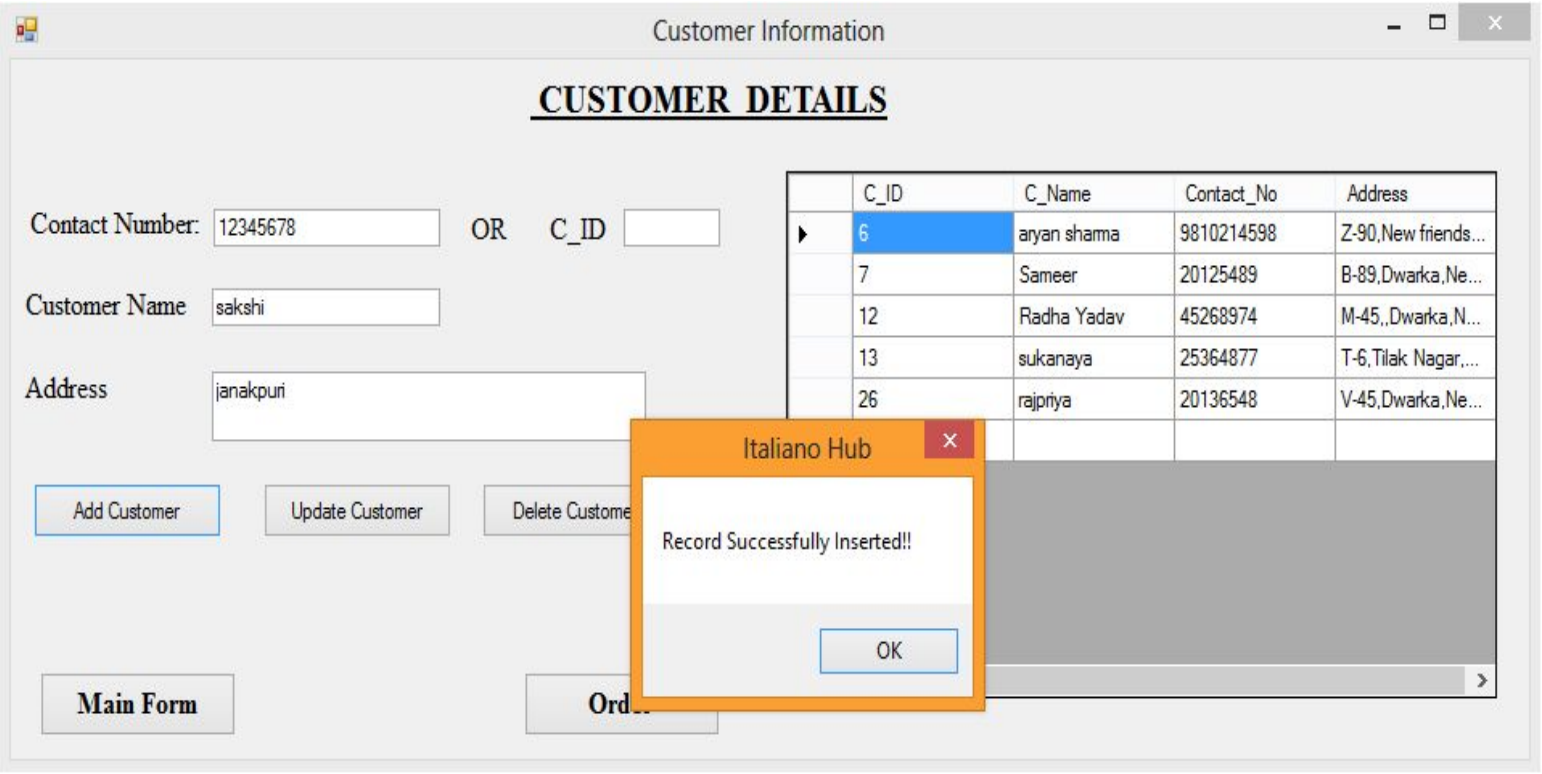


CUSTOMER DETAILS FORM

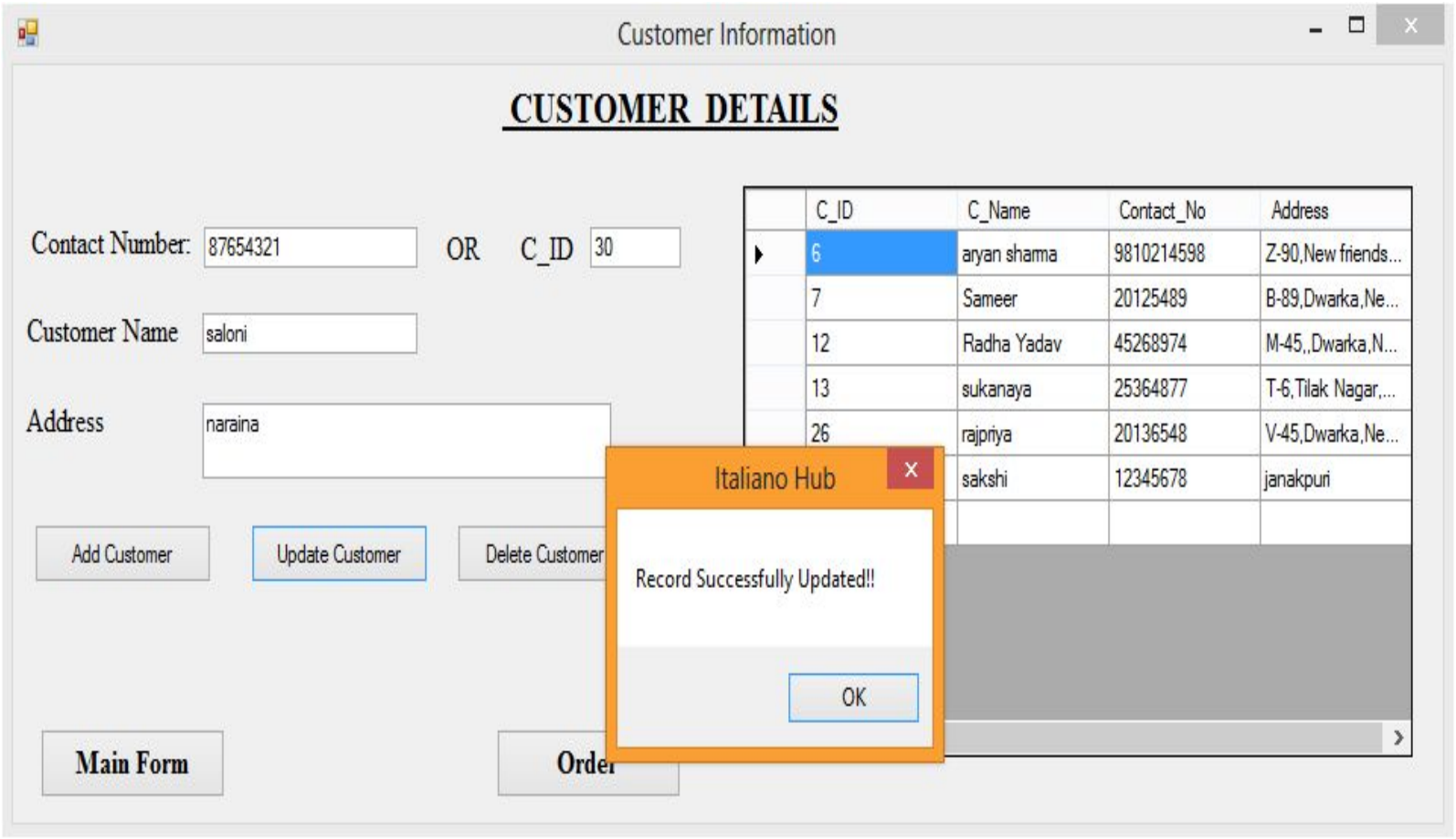


SUB-PROCESSES UNDER CUSTOMER DETAILS

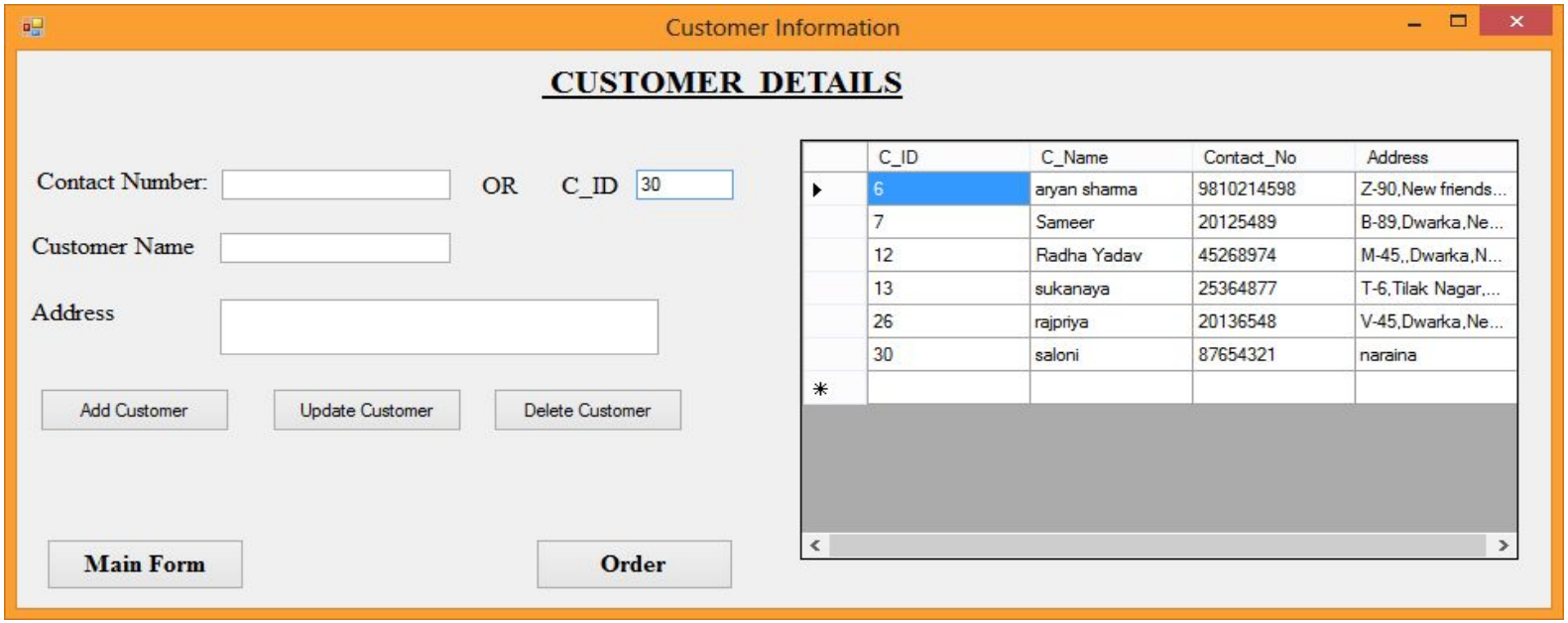
- **INSERTING RECORDS**

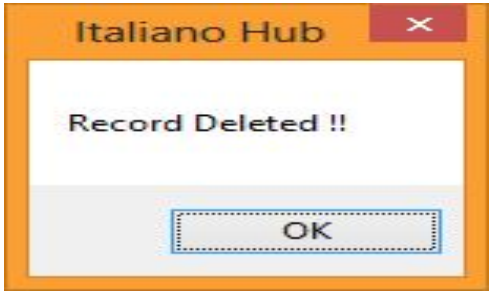


- **UPDATING RECORDS**



- **DELETING RECORDS**





VALIDATIONS:

Validations are provided for customer details form:

- Error messages are generated if the fields are missing.

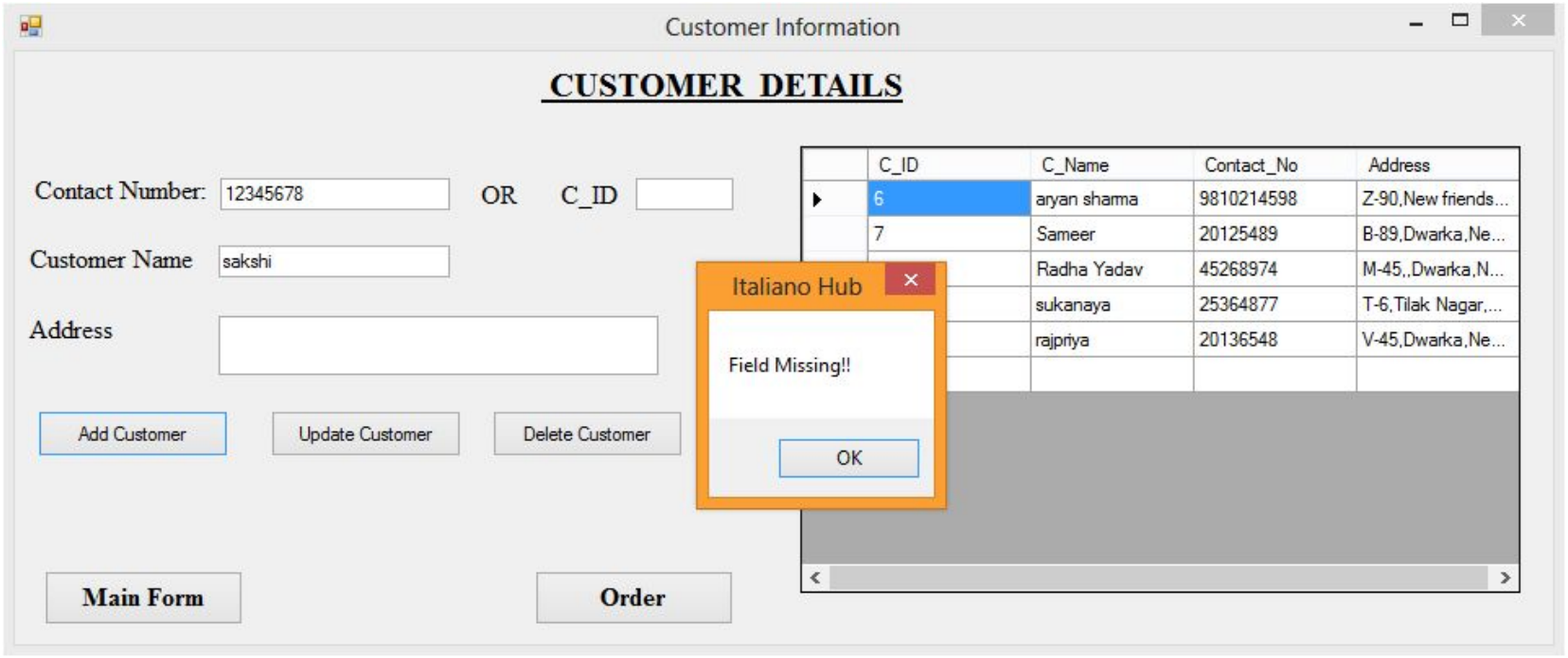
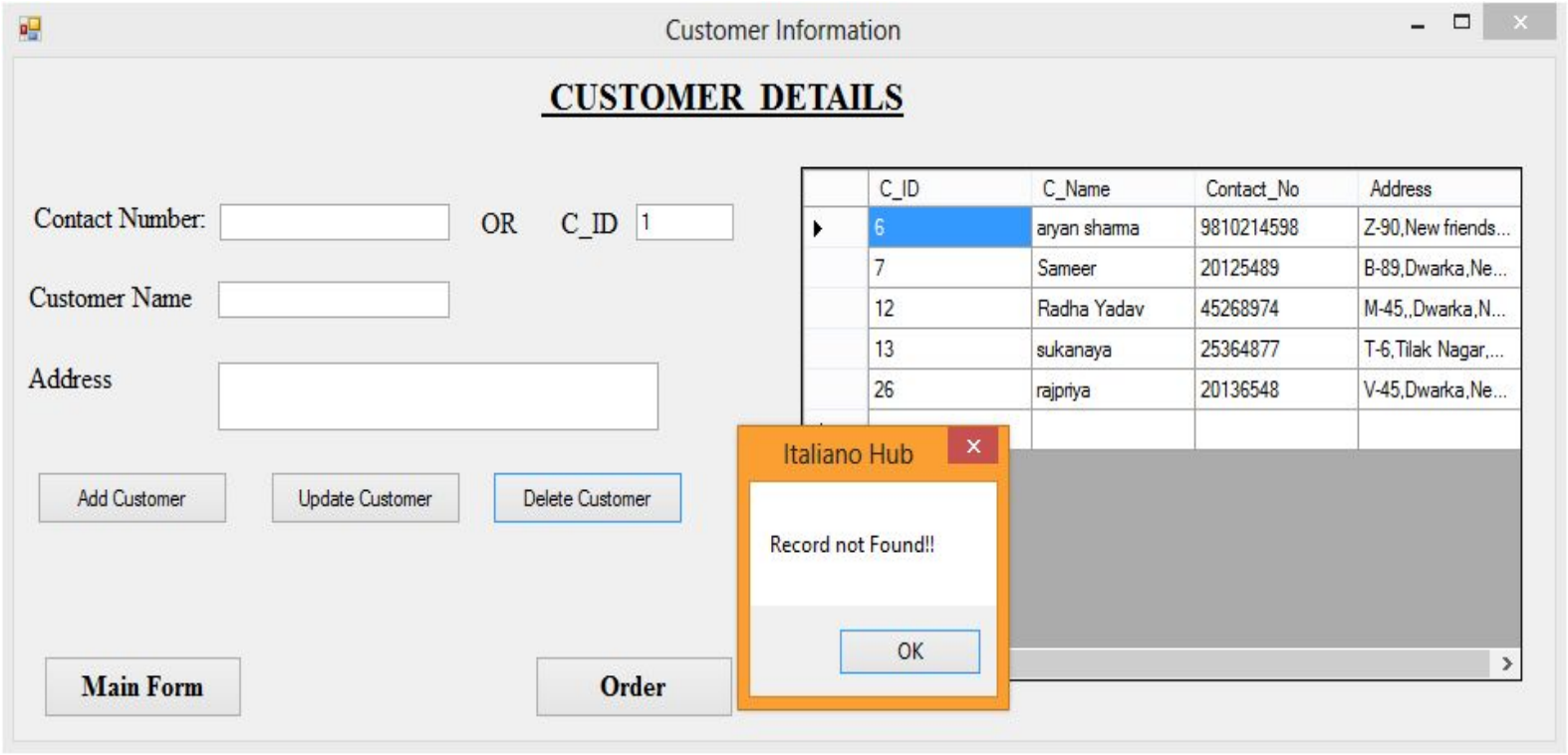
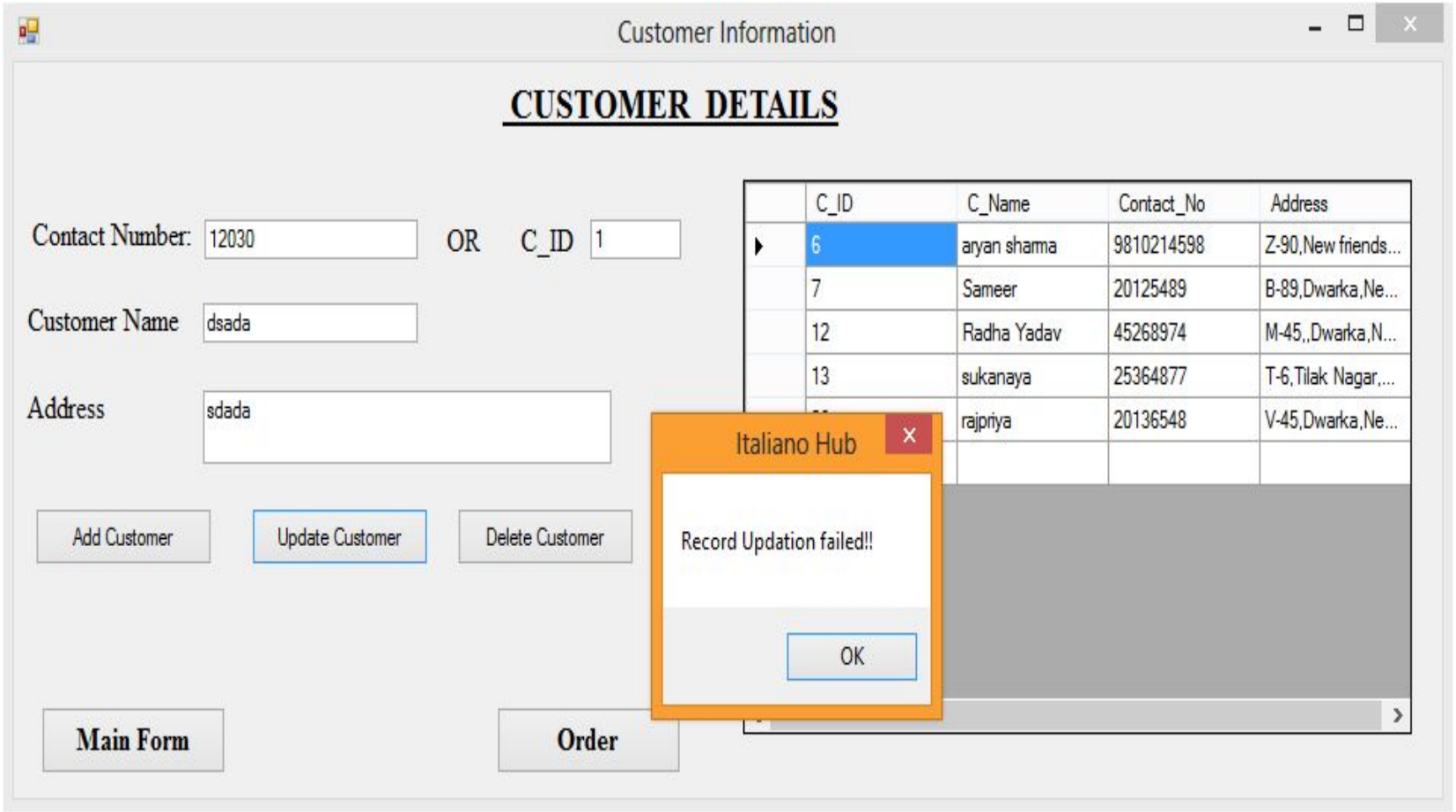
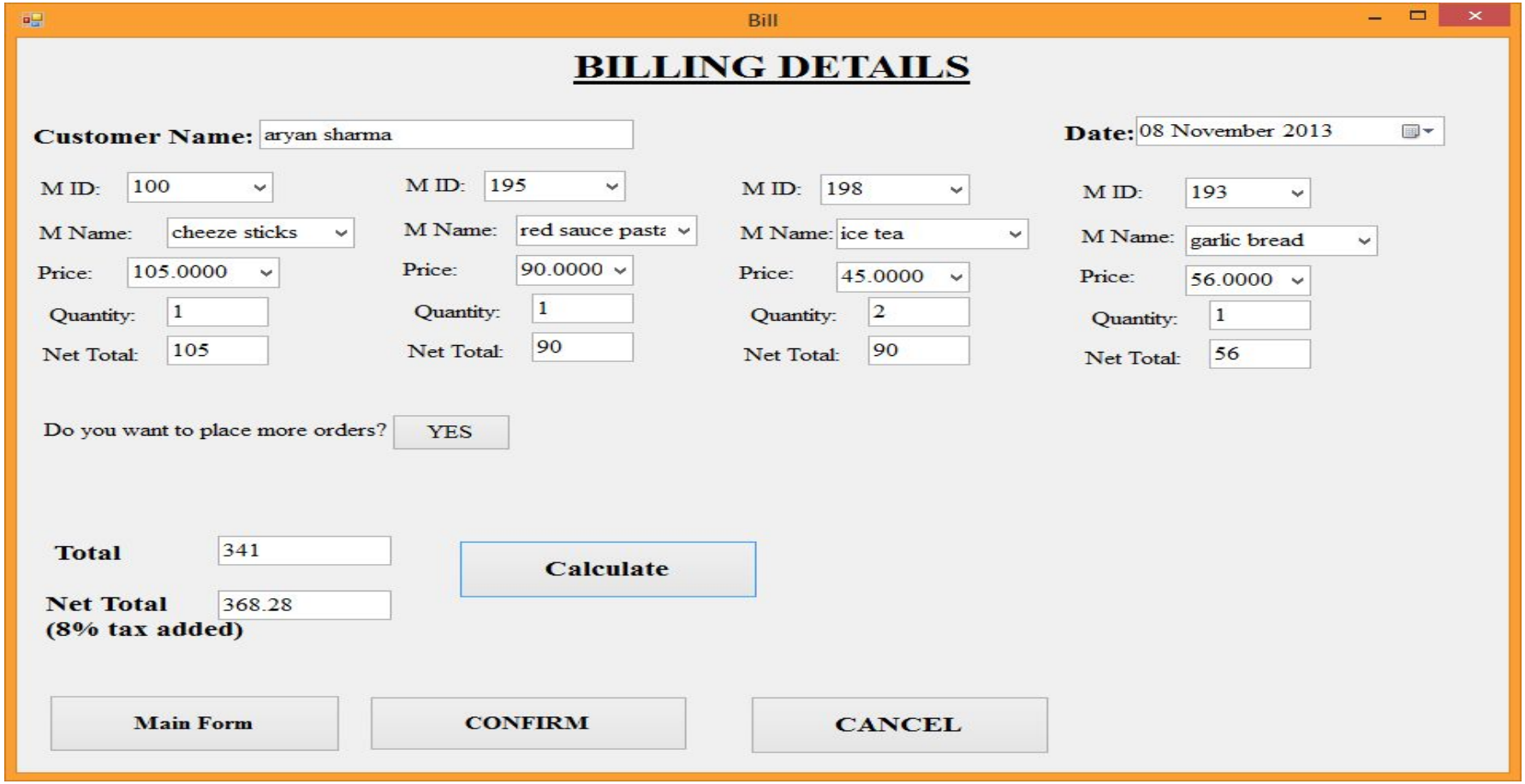


FIGURE 4:CUSTOMER DETAILS FORM

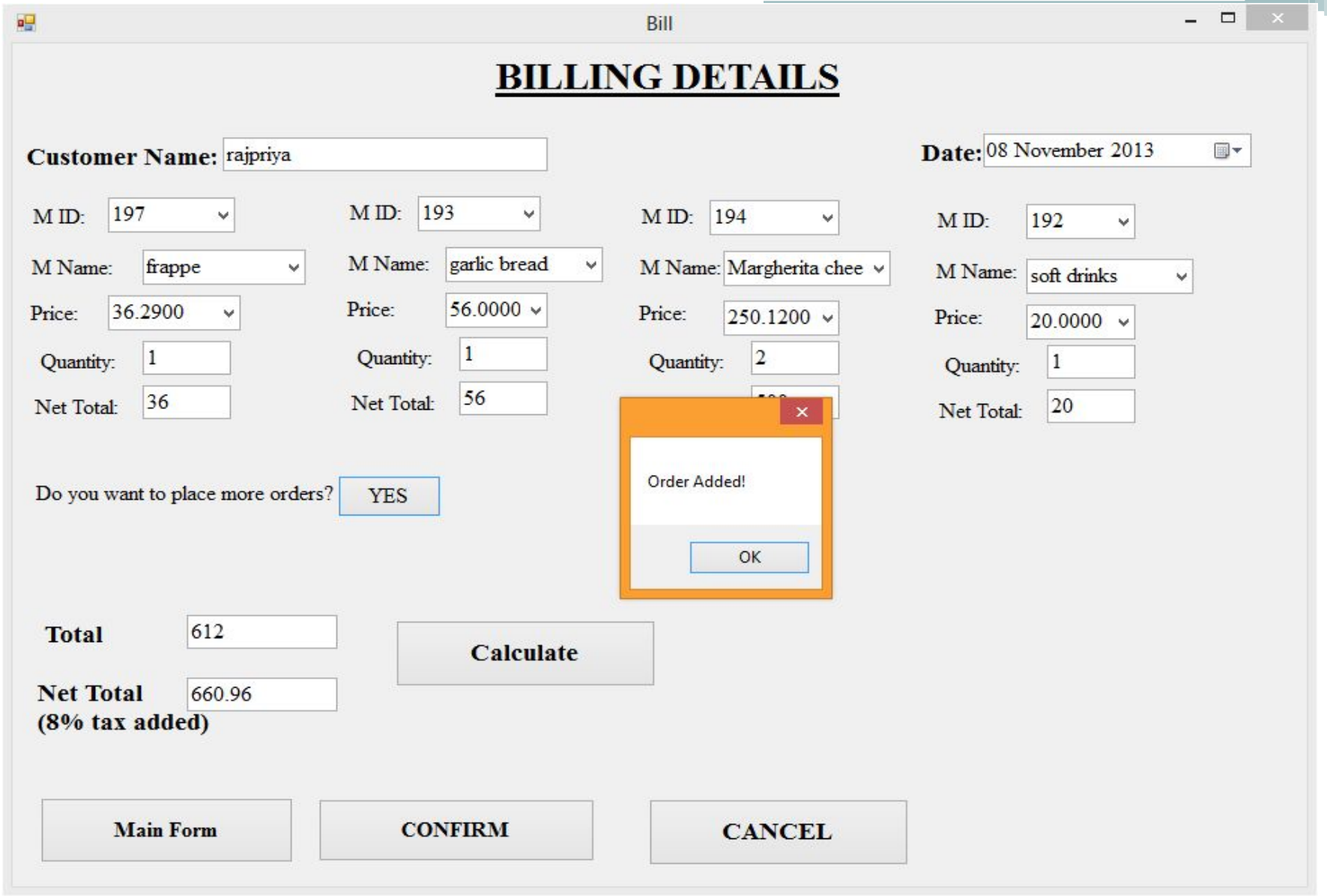
- In case the user attempts to delete or update a record that does not exist, error messages are shown.




Customer Information
CUSTOMER DETAILS
Contact Number:
12030
OR
C_ID
1
Customer Name
dsada
Address
sdada
Add Customer
Update Customer
Delete Customer
Main Form
Order
C_ID
C_Name
Contact_No
Address
6
aryan sharma
9810214598
Z-90,New friends...
7
Sameer
20125489
B-89,Dwarka,Ne...
12
Radha Yadav
45268974
M-45,,Dwarka,N...
13
sukanaya
25364877
T-6,Tilak Nagar,...
rajpriya
20136548
V-45,Dwarka,Ne...
Italiano Hub
Record Updation failed!!
OK


Bill
BILLING DETAILS
Customer Name: aryan sharma
Date: 08 November 2013
M ID: 100
M Name: cheeze sticks
Price: 105.0000
Quantity: 1
Net Total: 105
M ID: 195
M Name: red sauce pasta
Price: 90.0000
Quantity: 1
Net Total: 90
M ID: 198
M Name: ice tea
Price: 45.0000
Quantity: 2
Net Total: 90
M ID: 193
M Name: garlic bread
Price: 56.0000
Quantity: 1
Net Total: 56
Do you want to place more orders?
YES
Total 341
Net Total (8% tax added) 368.28
Calculate
Main Form
CONFIRM
CANCEL

Italiano Hub
Order Saved!
OK


Bill
BILLING DETAILS
Customer Name: rajpriya
Date: 08 November 2013
M ID: 197
M Name: frappe
Price: 36.2900
Quantity: 1
Net Total: 36
M ID: 193
M Name: garlic bread
Price: 56.0000
Quantity: 1
Net Total: 56
M ID: 194
M Name: Margherita chee
Price: 250.1200
Quantity: 2
M ID: 192
M Name: soft drinks
Price: 20.0000
Quantity: 1
Net Total: 20
Do you want to place more orders?
YES
Order Added!
OK
Total 612
Net Total (8% tax added) 660.96
Calculate
Main Form
CONFIRM
CANCEL

THANK YOU !!!