

# ITALIANO HUB MANAGEMENT SYSTEM

Using  
VB.NET 2010  
SQL SERVER 2008

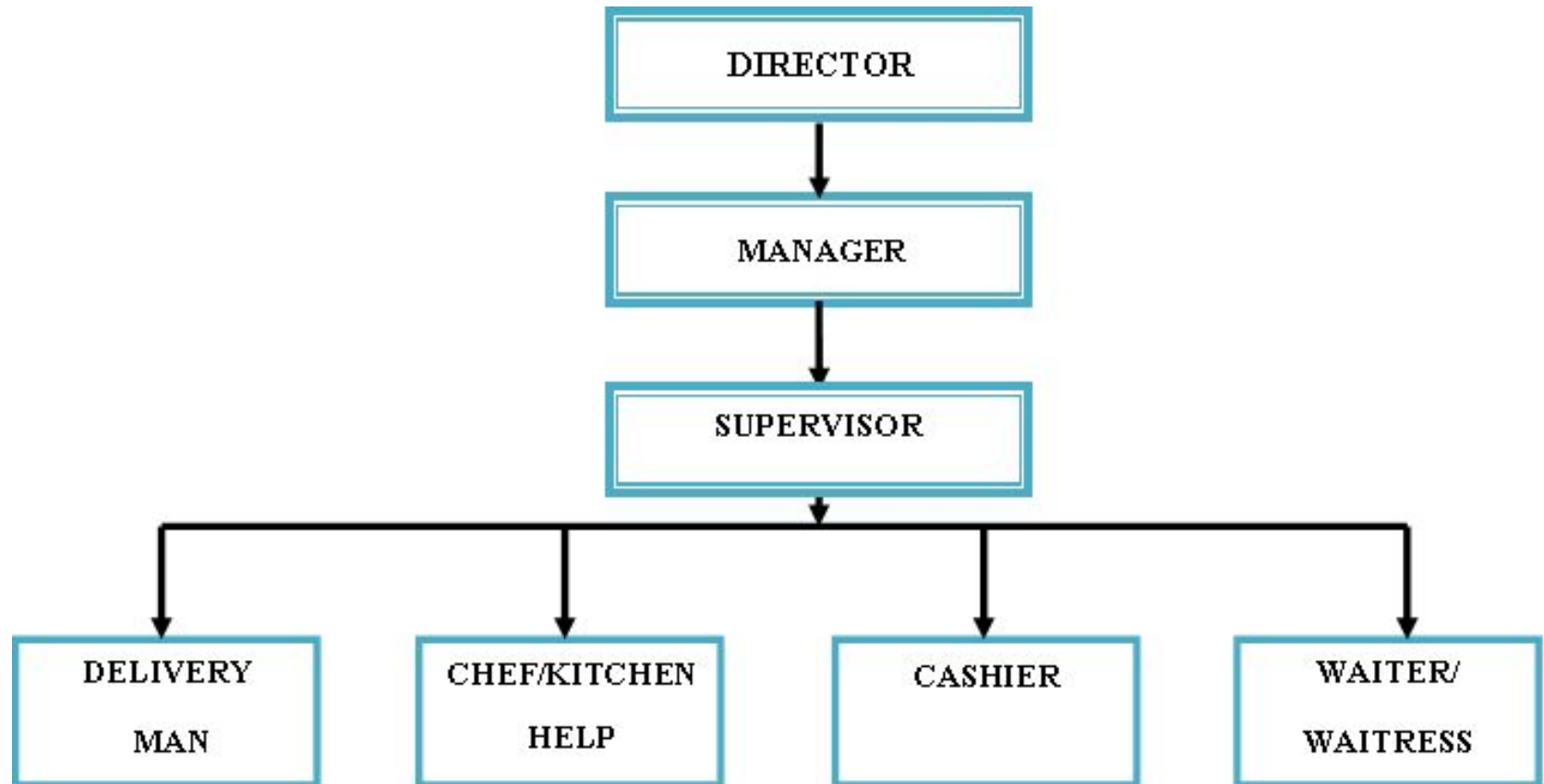
# INTRODUCTION

- 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.

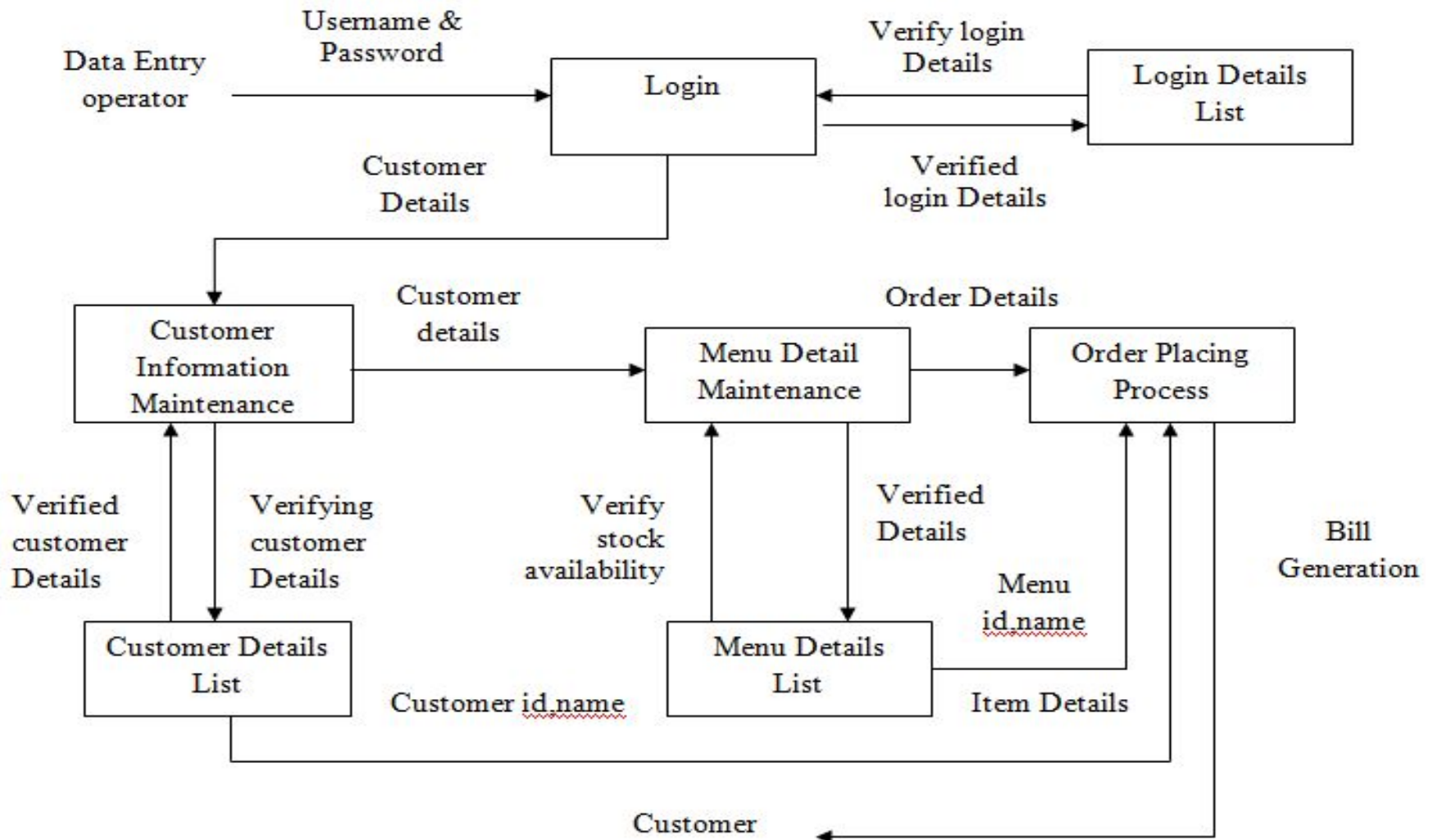
# ORGANISATIONAL STRUCTURE



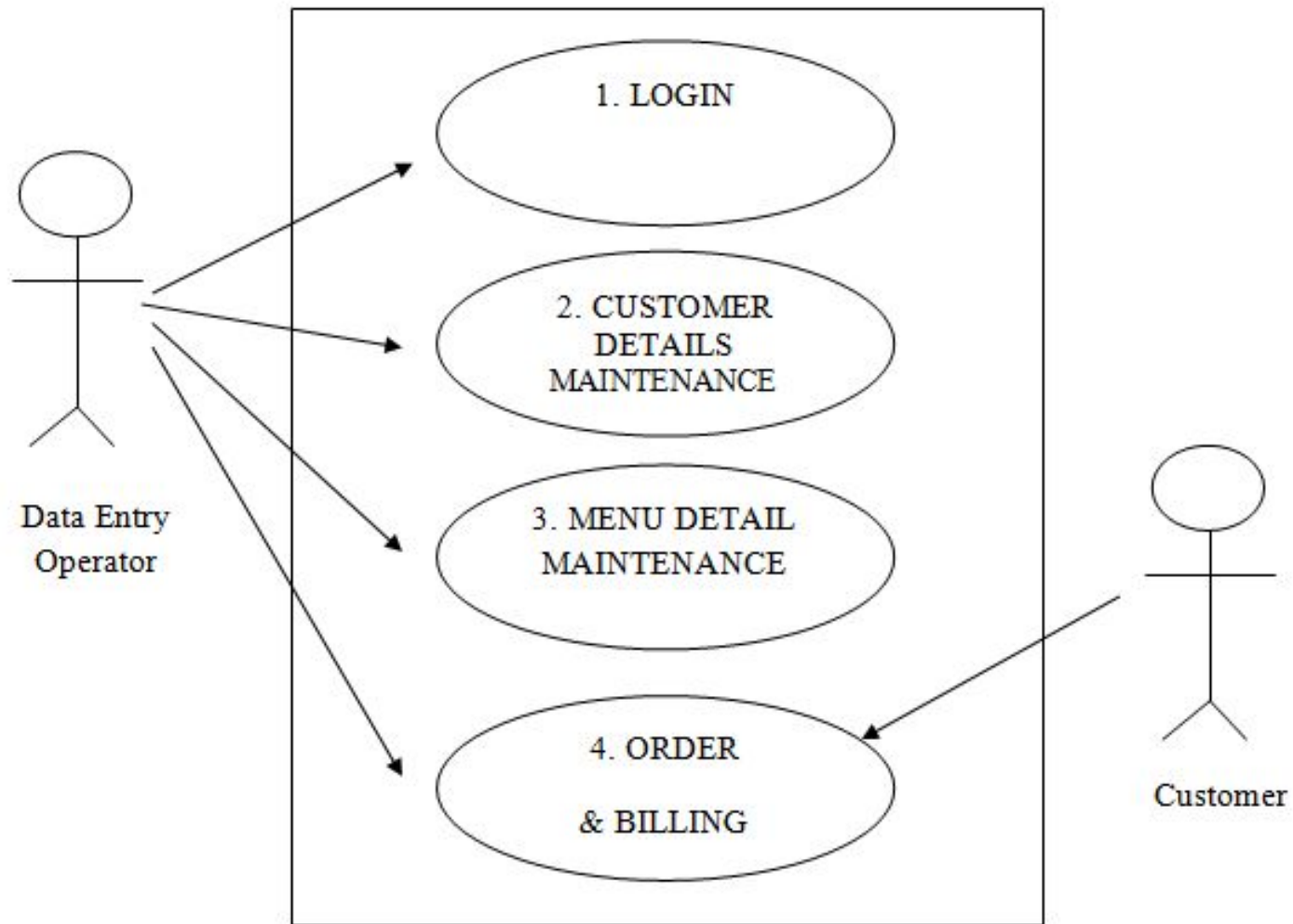
# LIST OF PROCESSES

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

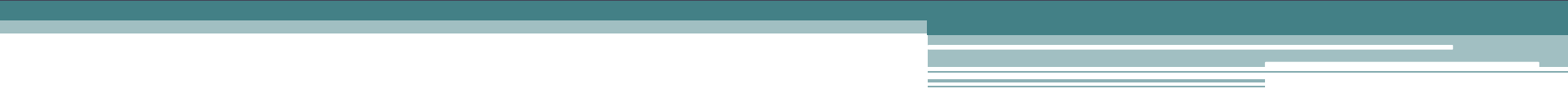
# Block Diagram of The System



# USE CASE DIAGRAM

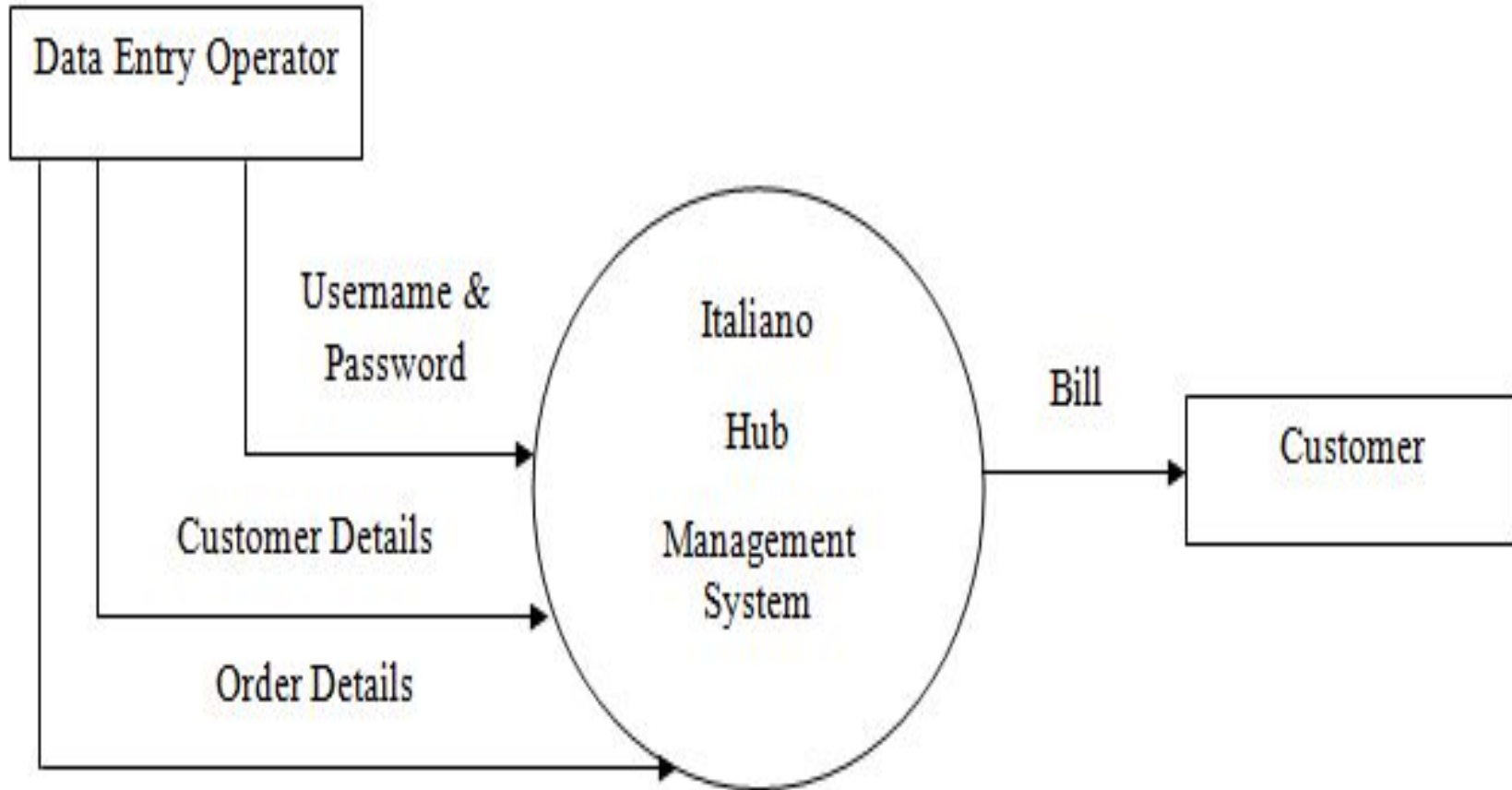


# DATA FLOW DIAGRAM

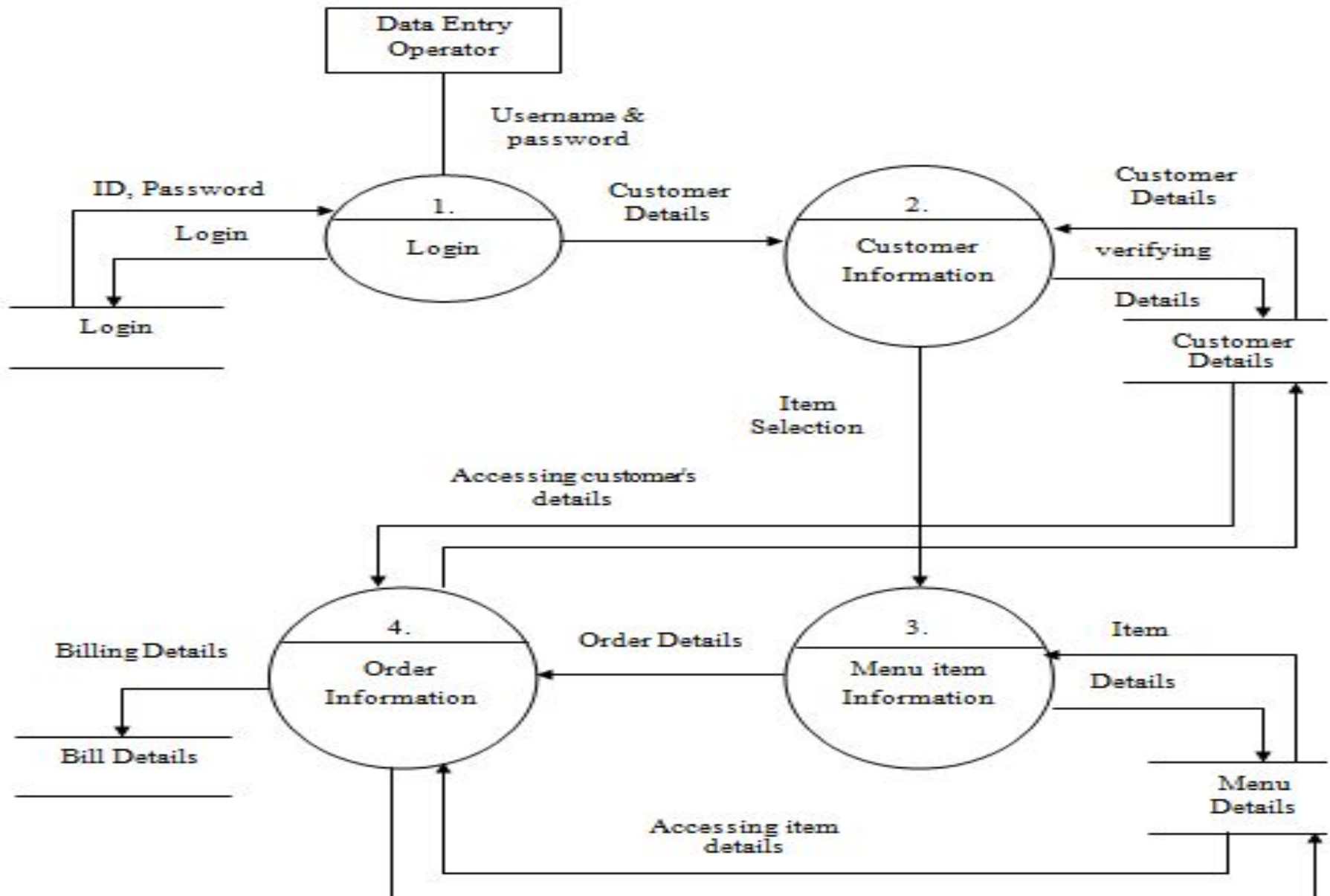
A series of horizontal lines in teal and light blue colors, with varying lengths and offsets, creating a modern, layered effect across the middle of the slide.



# DFD ( LEVEL – 0 )

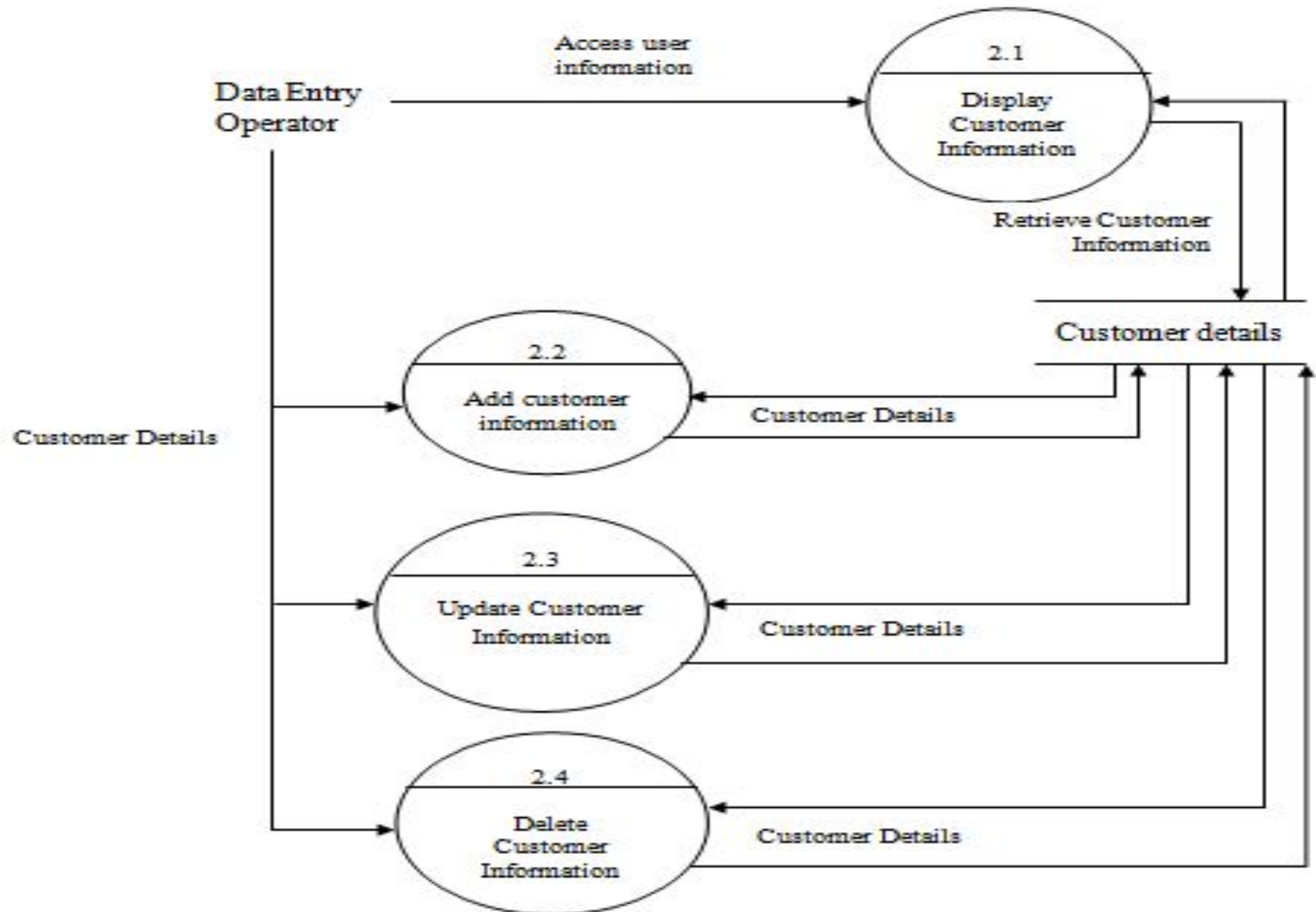


# DFD ( LEVEL – 1 )



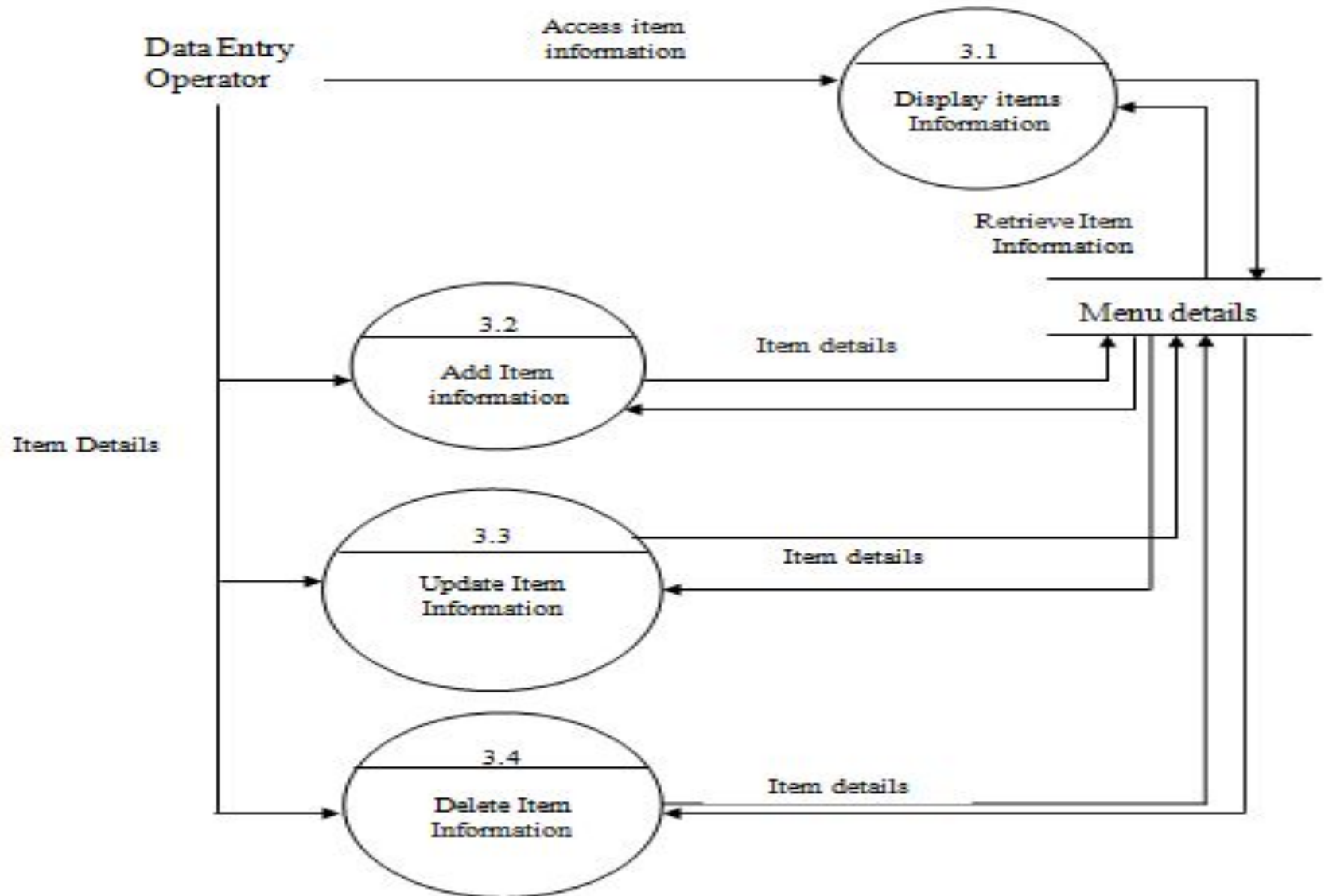
# DFD ( LEVEL – 2)

## 2.1.5.3.1 CUSTOMER INFORMATION MANAGEMENT



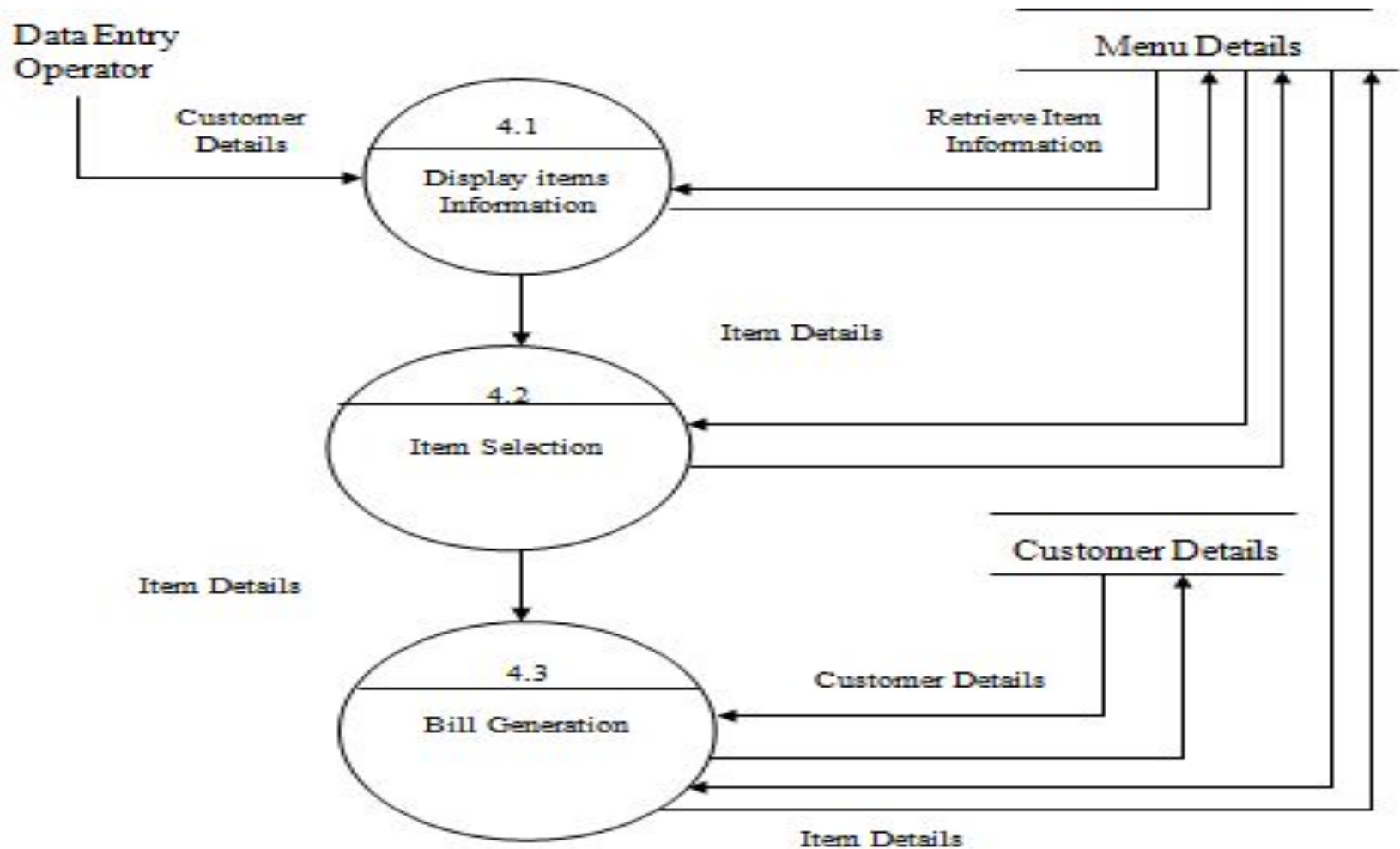
# DFD ( LEVEL – 2)

## 2.1.5.3.2 MENU INFORMATION MANAGEMENT

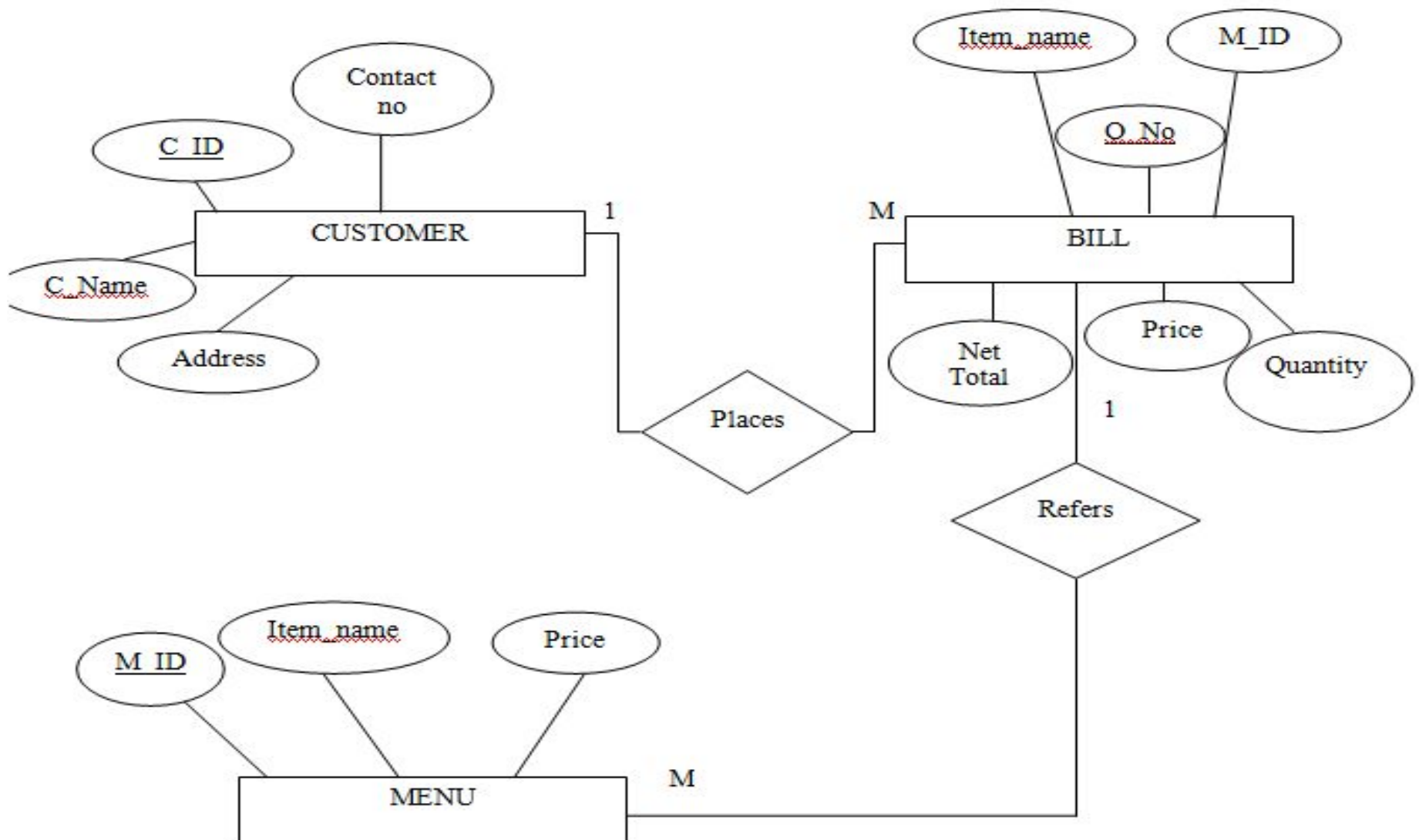


# DFD ( LEVEL – 2)

## 2.1.5.3.3 CUSTOMER'S ITEM CHOICE INFORMATION MANAGEMENT / ORDER MANAGEMENT



# ER-DIAGRAM



# DATABASES

# LOGIN TABLE

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

**TABLE 1: LOGIN TABLE**



# CUSTOMER RECORD TABLE

COLUMN NAME	FIELD TYPE	SIZE	PRIMARY KEY	NULL	DESCRIPTION
<u>C_ID</u>	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
<u>M_ID</u>	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



**LOGIN**

Username:

Password:

Invalid Username or Password!!!!

OK

System developed by Saloni Phama and Sakshi Dewangan

# NAVIGATION FORM



# MENU DETAILS FORM

**MENU DETAILS**

M_ID	M_Name	Price
100	cheeze sticks	105.0000
191	pan pizza	230.0000
192	soft drinks	20.0000
193	garlic bread	56.0000
194	Margherita cheeze pizza	250.1200
195	red sauce pasta	90.0000
196	white sauce pasta	91.2000
197	frappe	36.2900

**Main Form**

Delete Item

Enter M\_ID

**Delete Item**

Add Item

Item Name

Item Price

**Add Item**

Fields Missing!!

**OK**

Update Item

Item Price

**Update Item**



# SUB-PROCESSES UNDER MENU FORM

- INSERTING RECORDS

The screenshot displays a software application titled "Menu Information". It features a table of menu items, an "Add Item" form, and a confirmation dialog box.

**Menu Details Table:**

M_ID	M_Name	Price
193	garlic bread	56.0000
194	Margherita cheeze pizza	250.1200
195	red sauce pasta	90.0000
196	white sauce pasta	91.2000
197	frappe	36.2900
198	ice tea	45.0000
*		

**Add Item Form:**

Item Name: four pan pizza

Item Price: 230

**Buttons:** Add Item, Delete Item, Update Item

**Confirmation Dialog:** Italiano Hub, Record Successfully Inserted!!

- **UPDATING RECORDS**

Menu Information

**MENU DETAILS**

	M_ID	M_Name	Price
	194	Margherita cheeze pizza	250.1200
	195	red sauce pasta	90.0000
	196	white sauce pasta	91.2000
	197	frappe	36.2900
	198	ice tea	45.0000
	205	four pan pizza	230.0000
*			

Add Item

Item Name

Item Price

**Add Item**

Delete Item

Enter M\_ID

**Delete Item**

**Main Form**

**Update Item**

205

six pan pizza

400

**Italiano Hub**

Record Successfully Updated!!

**OK**

- **DELETION OF RECORDS**

Menu Information

**MENU DETAILS**

M_ID	M_Name	Price
194	Margherita cheeze pizza	250.1200
195	red sauce pasta	90.0000
196	white sauce pasta	91.2000
197	frappe	36.2900
198	ice tea	45.0000
205	six pan pizza	400.0000
*		

Add Item

Item Name

Item Price

**Add Item**

Delete Item

Enter M\_ID

**Delete Item**

Update Item

**Main Form**

Item Name

Item Price

**Update Item**

Item Name

Item Price

**Update Item**

Record Deleted!!!

OK

Italiano Hub

# CUSTOMER DETAILS FORM

Customer Information

**CUSTOMER DETAILS**

Contact Number:  OR C\_ID

Customer Name

Address

	C_ID	C_Name	Contact_No	Address
▶	6	aryan shama	9810214598	Z-90,New friends...
	7	Sameer	20125489	B-89,Dwarka,Ne...
		Radha Yadav	45268974	M-45,,Dwarka,N...
		sukanaya	25364877	T-6,Tilak Nagar,...
		rajpriya	20136548	V-45,Dwarka,Ne...

Italiano Hub

Field Missing!!

OK

# SUB-PROCESSES UNDER CUSTOMER DETAILS

## •INSERTING RECORDS

Customer Information

**CUSTOMER DETAILS**

Contact Number:  OR C\_ID

Customer Name

Address

	C_ID	C_Name	Contact_No	Address
▶	6	aryan shama	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,...
	26	rajpriya	20136548	V-45,Dwarka,Ne...

Italiano Hub

Record Successfully Inserted!!

- **UPDATING RECORDS**

Customer Information

**CUSTOMER DETAILS**

Contact Number:  OR C\_ID

Customer Name

Address

	C_ID	C_Name	Contact_No	Address
▶	6	aryan shama	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,...
	26	rajpriya	20136548	V-45,Dwarka,Ne...
		sakshi	12345678	janakpuri

Italiano Hub

Record Successfully Updated!!

OK

- **DELETING RECORDS**

Customer Information

**CUSTOMER DETAILS**

Contact Number:  OR C\_ID

Customer Name

Address

	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,...
	26	rajpriya	20136548	V-45,Dwarka,Ne...
	30	saloni	87654321	naraina
*				

Italiano Hub

Record Deleted !!

# VALIDATIONS:

Validations are provided for customer details form:

- Error messages are generated if the fields are missing.

The screenshot shows a window titled "Customer Information" with a sub-header "CUSTOMER DETAILS". The form contains the following fields and controls:

- Contact Number:  OR C\_ID:
- Customer Name:
- Address:
- Buttons: Add Customer, Update Customer, Delete Customer
- Buttons: Main Form, Order

A table is displayed on the right side of the form:

	C_ID	C_Name	Contact_No	Address
▶	6	aryan sharma	9810214598	Z-90,New friends...
	7	Sameer	20125489	B-89,Dwarka,Ne...
		Radha Yadav	45268974	M-45,,Dwarka,N...
		sukanaya	25364877	T-6,Tilak Nagar,...
		rajpriya	20136548	V-45,Dwarka,Ne...

An error dialog box titled "Italiano Hub" is overlaid on the table, displaying the message "Field Missing!!" and an "OK" button.

**FIGURE 4:CUSTOMER DETAILS FORM**



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

The screenshot displays a software application window titled "Customer Information". Inside the window, there is a section titled **CUSTOMER DETAILS**. On the left side of this section, there are input fields for "Contact Number:", "Customer Name", and "Address". To the right of these fields is a label "OR" followed by a "C\_ID" field containing the value "1". Below the input fields are three buttons: "Add Customer", "Update Customer", and "Delete Customer". At the bottom left of the window is a button labeled "Main Form", and at the bottom right is a button labeled "Order". On the right side of the window, there is a table with the following data:

	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,...
	26	rajpriya	20136548	V-45,Dwarka,Ne...

An orange error dialog box titled "Italiano Hub" is overlaid on the table. It contains the text "Record not Found!!" and an "OK" button. This error message is triggered by attempting to delete or update a record that does not exist in the database.

Customer Information

## CUSTOMER DETAILS

Contact Number:  OR C\_ID

Customer Name

Address

	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,...
	14	rajpriya	20136548	V-45,Dwarka,Ne...

Italiano Hub

Record Updation failed!!

OK

**BILLING DETAILS****Customer Name:** aryan sharma**Date:** 08 November 2013

M ID: 100

M ID: 195

M ID: 198

M ID: 193

M Name: cheeze sticks

M Name: red sauce pasta

M Name: ice tea

M Name: garlic bread

Price: 105.0000

Price: 90.0000

Price: 45.0000

Price: 56.0000

Quantity: 1

Quantity: 1

Quantity: 2

Quantity: 1

Net Total: 105

Net Total: 90

Net Total: 90

Net Total: 56

Do you want to place more orders? YES

**Total** 341**Calculate****Net Total** 368.28  
**(8% tax added)****Main Form****CONFIRM****CANCEL**

Italiano Hub

Order Saved!

OK

— □ ×



rajpriya

08 November 2013

197 ▼

193

194 ▼

192

frappe

garlic bread

Margherita chee

soft drinks

36.2900

56.0000 ✓

250.1200 ✓

20.0000 ✓

1

1

2

1

36

56

20

YES



OK

612

**Calculate**

660.96

## Main Form

CONFIRM

**CANCEL**



THANK

YOU !!!