A PROJECT REPORT

ON

**"Furniture H/W
Inventory Management System"**

SUBMITTED TO

BHAVAN'S SHREE H.J. DOSHI INFOTMATION

TECHNOLOGY INSTITUTE,

JAMNAGAR

AFFILICATED TO

SAURASHTRA UNIVERSITY, RAJKOT

FOR THE COURSE OF

BACHELOR OF COMPUTER APPLICATION

(5th SEM)

SUBMITTED BY:

KAUSHAL TARPARA

UNDER THE GUIDENCE OF

HIRAK SIR

BHAVAN'S

SHREE H. J. DOSHI

Information Technology Institute, Jamnagar

Certificate

Project Ref. No. : BCA_05_2021/_____**28**_____

This is to Certify that

Mr./Ms./Mrs. _____**Kaushal D. Tarapra**_____

is regular student of B. C. A. Semester 5, Year-2021

The Project on

Furniture H/W Inventory Management System

has been successfully completed for the partial fulfillment of study required by the Saurashtra University, Rajkot for Academic Year 2021 - 2022.

_____
Lect. Hirak Buch
Project Guide

Dr. H. B. Sheth
Director

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[1] INTRODUCTION

[1.1] Project Profile

Project Title:
> Furniture H/W Inventory Management System

Project Type:
> Windows Application

Front End:
> J2EE

Back End:
> MySQL

Software Requirement:
> Eclipse IDE and JDK 1.8

Project Duration:
> 3 Months

Developed By:

> Kaushal Tarpara

Guidance by:
> Lect. Hirak Buch

Submitted To:
> BHAVAN'S SHREE H.J. DOSHI INFOTMATION

[1.2] Project Summary:

The Furniture H/W Inventory Management system is dedicated to the requirement of the medium-size business whom have number of transactions.

The Inventory Management is related to sales, Purchase, Items, Customer, suppliers, Stock and other Factors details.

The Application also Provide the remaining balance of the Stock as well as details of the balance of the transition.

[1.2] Purpose

Furniture H/W Inventory Management System Provide Information to efficiently manage the flow of materials, effectively utilize people and equipment.

The Main Purpose is Making Work fast and easy. Also, the system maintains All data of the Business.

Small Paper transections, Paying the tax, billing System (old Paper) are problems of business Whom doing work Fastly.

[2] SCOPE

This is windows base application.

This application used to collect Customer, Supplier, Stock, Brands, Sales, Purchase.

Inventory management or inventory control is a very useful technique for managing the stocks and sales records Managing all these products, sufficient stocks, sales records, also analyzing sales and reordering from time to time is a difficult job. To do it more effectively and correctly a better inventory control or stock management is required.

The scope of this system is to provide user efficient working environment and more output can be generated through this. This system provides user friendly interface resulting in knowing each and every usability features of the system.

[3] Tools Used

1)Front End   : Java EE

2)Back End : MySQL

3)Frameworks : JDK 1.8

4)IDE : Eclipse IDE

5)LocalServer : WAMP

6)Plugins : WindowBulider

[4] Data Dictionary

1) tbl_User

Column	Type	P.K ./ F.K. /A.I.
userID	int(3)	Primary key + A. I.
username	varchar(30)	
password	varchar(30)	

2).tbl_items

Column	Type	P.K. / F.K. /A.I.
ItemID	int(5)	Primary key + A. I.
ItemName	varchar(30)	
ItemMetel	varchar(20)	
ItemBrand	varchar(20)	
ItemPrice	int(10)	
ItemProfit	int(3)	
ItemDiscount	int(3)	
ItemTex	int(3)	
ItemStock	int(10)	
ItemTotleCost	int(10)	
ItemUpdateDate	date	

3).tbl_itembrand

Column	Type	P.K ./ F.K ./A.I.
BrandID	int(3)	Primary key + A. I.
BrandName	varchar(30)	
BrandContectNumber	double	

4).tbl_order

Column	Type	P.K ./ F.K ./A.I.
OrderId	int(5)	Primary key + A. I.
InvoiceID	int(5)	
CustomerName	varchar(50)	Foreign Key
ItemID	int(5)	Foreign Key
ItemName	varchar(30)	
Price	int(10)	
ItemQuantity	int(10)	
ItemProfite	int(3)	
Tax	int(3)	
Discount	int(3)	
TotleAmount	int(10)	
Date	Date	

5).tbl_purchase

Column	Type	P.K. / F.K. /A.I.
PurchaseID	int(5)	Primary key + A. I.
InvoiceID	int(5)	
SupplierName	varchar(50)	Foreign Key
ItemID	int(5)	Foreign Key
ItemName	varchar(50)	
ItemQuantity	int(10)	
Price	int(10)	
Tax	int(3)	
TotleAmount	int(10)	
Date	Date	

6).tbl_customer

Column	Type	P.K. / F.K. /A.I.
CstID	int(5)	Primary key + A. I.
Cstname	varchar(50)	Primary key
CstAddress	varchar(100)	
CstMoblieNo	bigint(10)	
CstGSTNumber	varchar(15)	
CstShopName	varchar(30)	
CstState	varchar(30)	
CstRemarks	varchar(200)	

7).tbl_supplier

Column	Type	P.K. / F.K ./A.I.
SupID	int(5)	Primary key + A. I.
SupName	varchar(30)	Primary key
SupAddress	varchar(100)	
SupMoblieNo	bigint(10)	
SupGSTNumber	varchar(15)	
SupShopName	varchar(30)	
SupState	varchar(30)	
SupRemarks	varchar(200)	

[5]. Data Flow Diagram(DFD)

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DFD (Data Flow Diagram):

      The DFD (Data Flow diagram) is a graphical representation of 'flow' of data through on information system, modeling its process aspects. A DFD is often used as a preliminary step to create and overview of system, which can later be elaborated. DFD can also be used to for visualization of data processing.

      A DFD shows what kind of information will be input to and output from system, where the data will come and go to and where the data will be started. It doesn't show information about timing of process or information about whether process will operate in sequence or in parallel.

An External entity
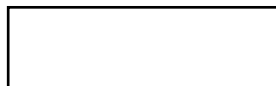
Function
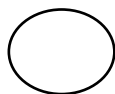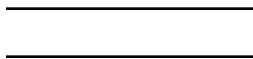
Data Store
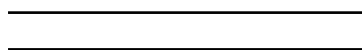
Data flow   →

Database set

Input/output

Data Store

Process

1) Context Or Zero Level DFD

```
                              ┌─────────────────────┐
                              │                     │
  ┌──────────────────┐   Give The Raw Data          │
  │                  │ ───────────────────────▶     │
  │   User/Admin     │                          Inventory
  │                  │ ◀───────────────────────  Management
  └──────────────────┘   Give The Maange Data       System
                              │                     │
                              └─────────────────────┘
```
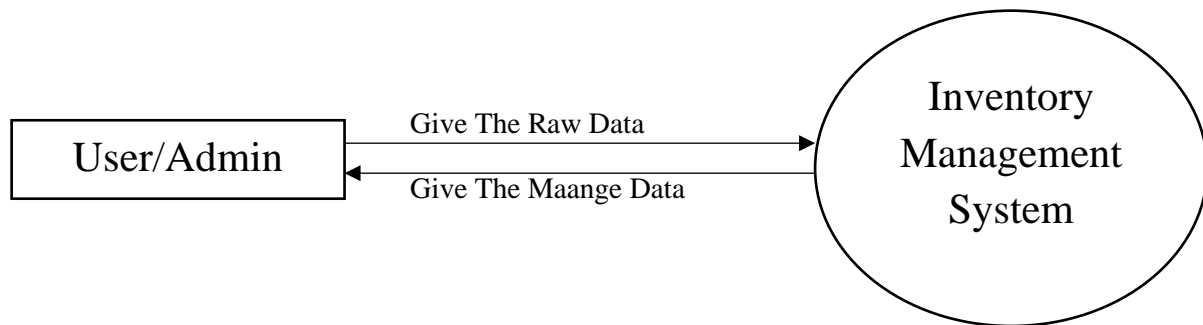
2)First Level of DFD

14
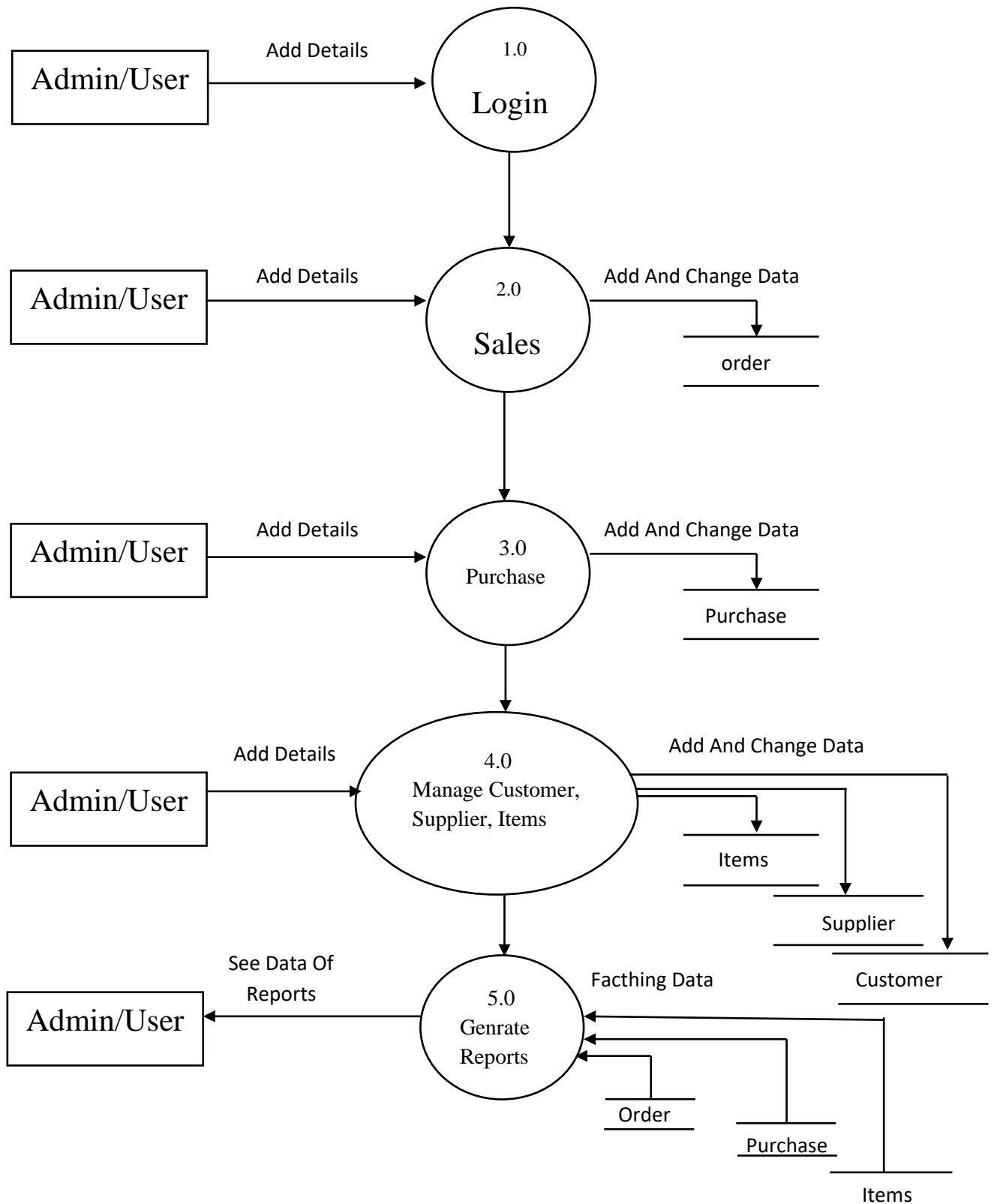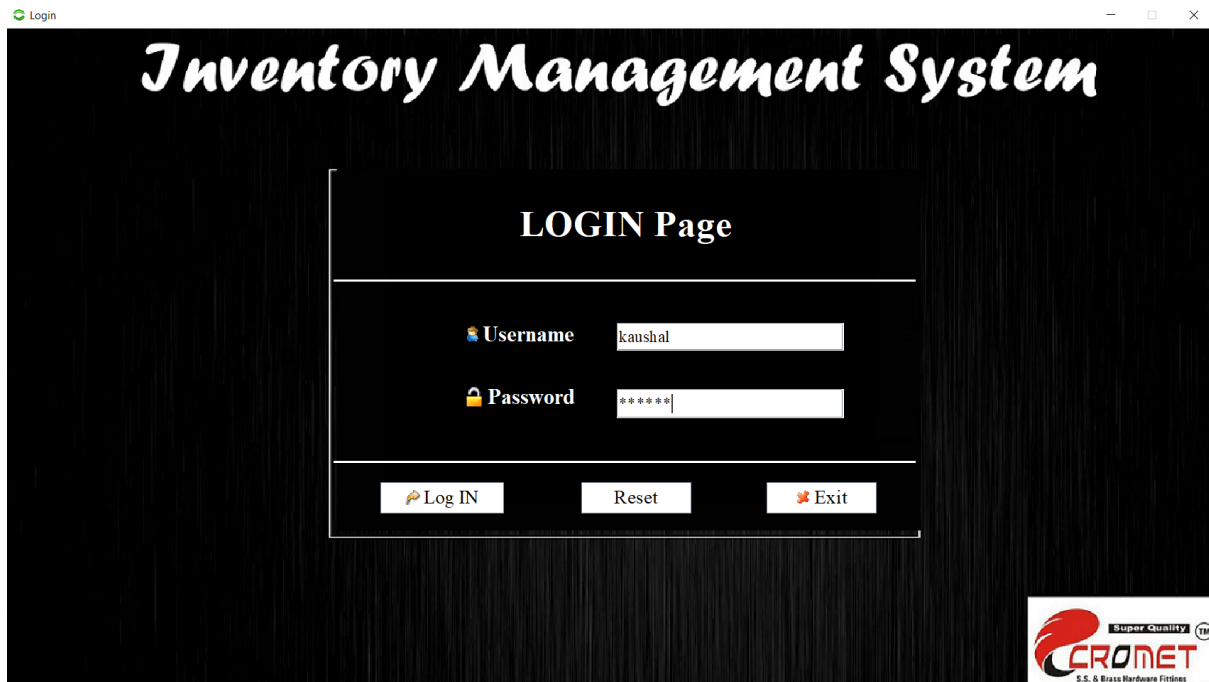
[6]. Entity Relationship Diagram
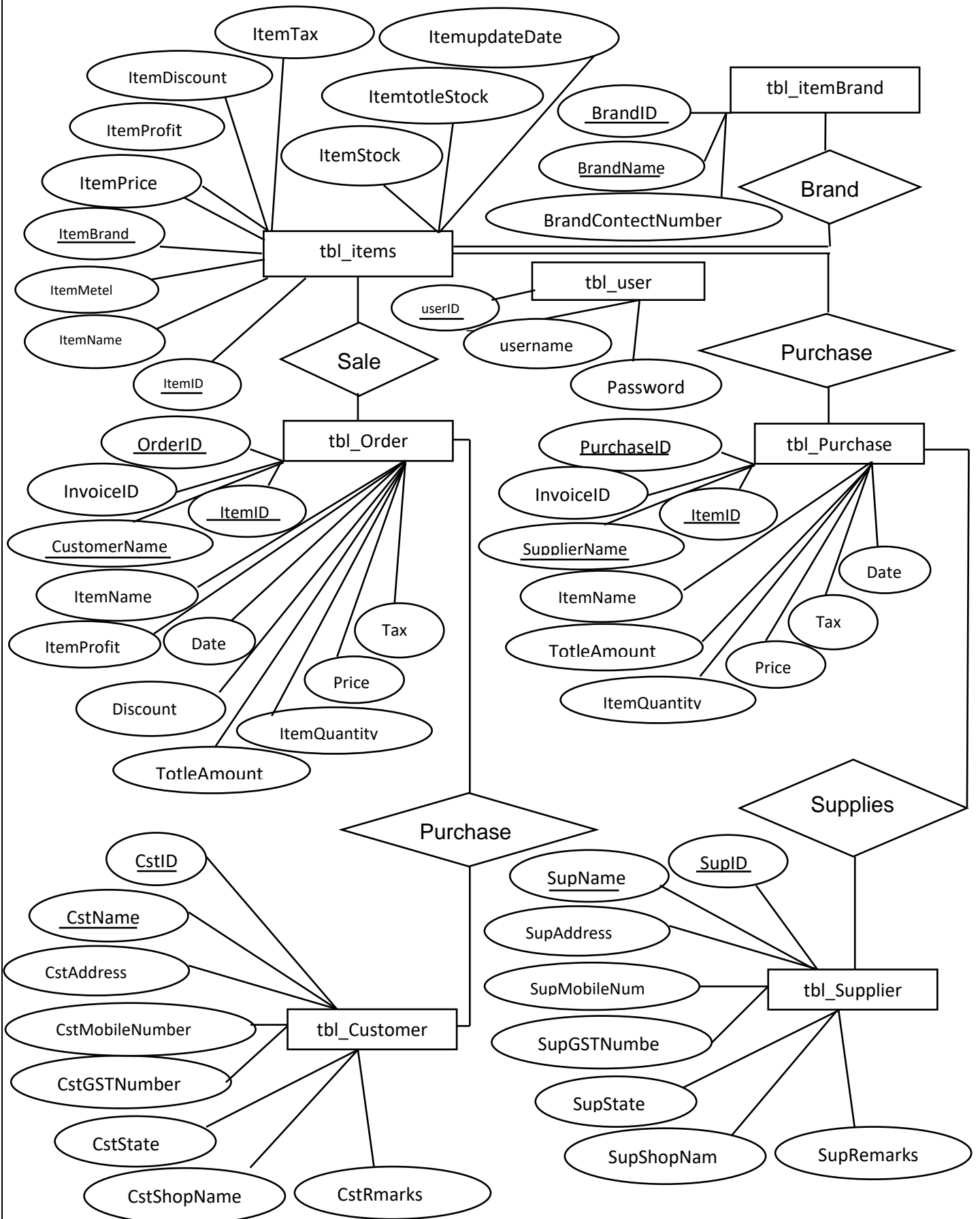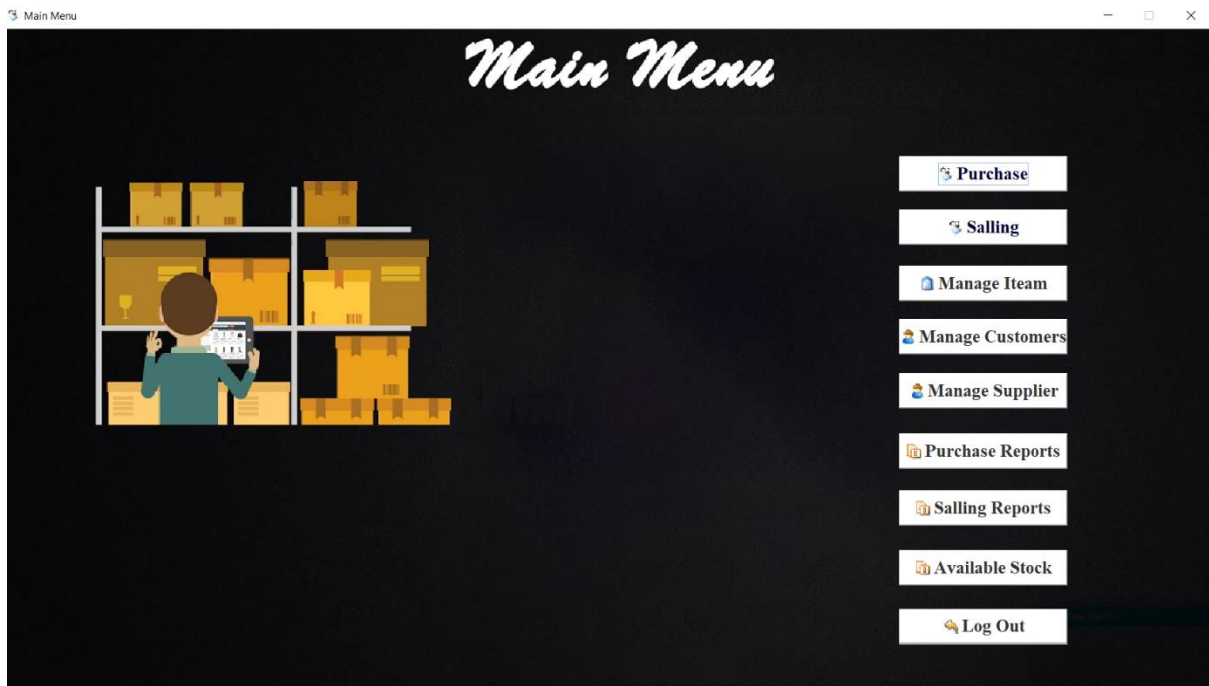
[7].Forms Layout (Screenshots)

1) LogIn

2)Main Menu

3)Purchase & Billing


4)Salling & Billing

5)Manage Items

Manage Item — — □ ×

Manage Item

🔑 Ba...

Add New Item

Item ID	
Item Type	◉ S.S. ◉ Brass
Iteam Name	
Iteam Brand	Cromet
Price ₹	
Profit(%)	
Tax(%)	
Available Stock	
Dicount(%)	
	Calulate
Totle Ammount	

📝 Update Item   📄 Add Item

Item Name :- [ ]   🔍 Search   Date :- 04/10/2021

Modify   ❌ Delete   Clear

Iteam ID	Iteam Name	Iteam Metal	Brand	Iteam Quntity	Iteam Price	Iteam Profit	Discount	Tex	Totle	Date
2	Stomper	Brass	MBC	600	500	50	5	5	747	2021-09-26
3	Megent	Brass	MBC	400	200	15	5	12	212	2021-10-01
7	SSL	S.S	Cromet	10000	1000	5	5	1	1090	2021-09-26
8	asd	S.S	Cromet	3000	1200	4	6	5	1256	2021-09-28
9	Zan	Brass	Cromet	4000	2000	50	15	18	2829	2021-10-01

6)Manage Customers

Manage Customer — — □ ×

Manage Customer

🔑 Back

Add New Customer

Custmor ID	
Customer Name	
Address	
Moblie No	
GST No	
Shop Name	
State	
Remarks :	

Add New Customer

Customer Shop Name:- [ ]   🔍 Search

📝 Update   Modify   ❌ Remove   Clear

Customer ID	Customer Name	Address	MoblieNo	GSTNumber	ShopName	State	Remarks
1	abhi	Rameshver	9924384634	123456789AB...	insta	gujrat	Big Customer
2	kaushal	pusherkdham	1234567891	12348492421212	kdcode	gujrat	very importentf...

7)Manage Supplier

8)Purchase Data

9)Sales Data

10)Stock Data

Iteam ID	Iteam Name	Iteam Metal	Brand	Iteam Quntity	Iteam Price	Iteam Profit	Discount	Tex	Totle	Date
2	Stomper	Brass	MBC	600	500	50	5	5	747	2021-09-26
3	Megent	Brass	MBC	400	200	15	5	12	212	2021-10-01
7	SSL	S.S	Cromet	10000	1000	5	5	1	1090	2021-09-26
8	asd	S.S	Cromet	3000	1200	4	6	5	1256	2021-09-28
9	Zan	Brass	Cromet	4000	2000	50	15	18	2829	2021-10-01

11)Add New Customer Popup

Add New Customer Popup — □ ×

Add New Customer

Custmor ID	Auto Garnteted
Customer Name	Bhargav
Address	3040,GIDC-3,jamanger
Moblie No	9924384634
GST No	1234567BG12211
Shop Name	Shree Ganshe
State	Gujrat
Remarks :	High Quality Item Perfers

Add New Customer

[8]. Limitation & Future Enhancement

Limitation

- ➡ It's not work on WAN network.
- ➡ Data type Validation –We can't give all proper data type & data length validation because of the time limit.

Future Enhancement

- ➡ Making the UI more user friendly.
- ➡ Multilanguage Support.
- ➡ Developing the android app for accessing application in stan alone way.

[9]. BIBLIOGRAPHY

The bibliography contains references to all the
documents that were used to develop the application.

Books

A) Java 2 Complete Reference
B) Analysis and Design of Information System
(James A. Senn)

Web Sites

- **www.stackoverflow.com**

- **www.c#corner.com**

- **www.tutorialspoint.com**