

**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  
(5<sup>th</sup> 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)	
BrandContectN umber	double	



#### 4).tbl\_order

<b>Column</b>	<b>Type</b>	<b>P.K. / F.K. /A.I.</b>
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

<b>Column</b>	<b>Type</b>	<b>P.K. / F.K. /A.I.</b>
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

<b>Column</b>	<b>Type</b>	<b>P.K. / F.K. /A.I.</b>
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

<b>Column</b>	<b>Type</b>	<b>P.K. / F.K ./A.I.</b>
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)

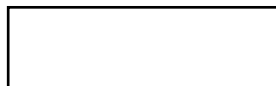
\

### DFD (Data Flow Diagram):

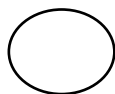
The DFD (Data Flow diagram) is a graphical representation of ‘flow’ of data through an information system, modeling its process aspects. A DFD is often used as a preliminary step to create an overview of a system, which can later be elaborated. DFD can also be used for visualization of data processing.

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

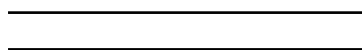
An External entity



Function



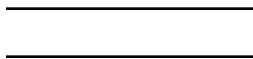
Data Store



Data flow



Database set




Input/output



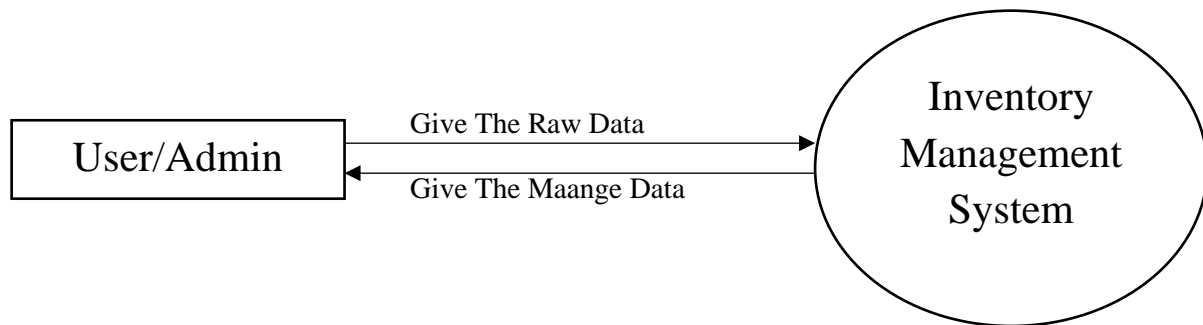
Data Store



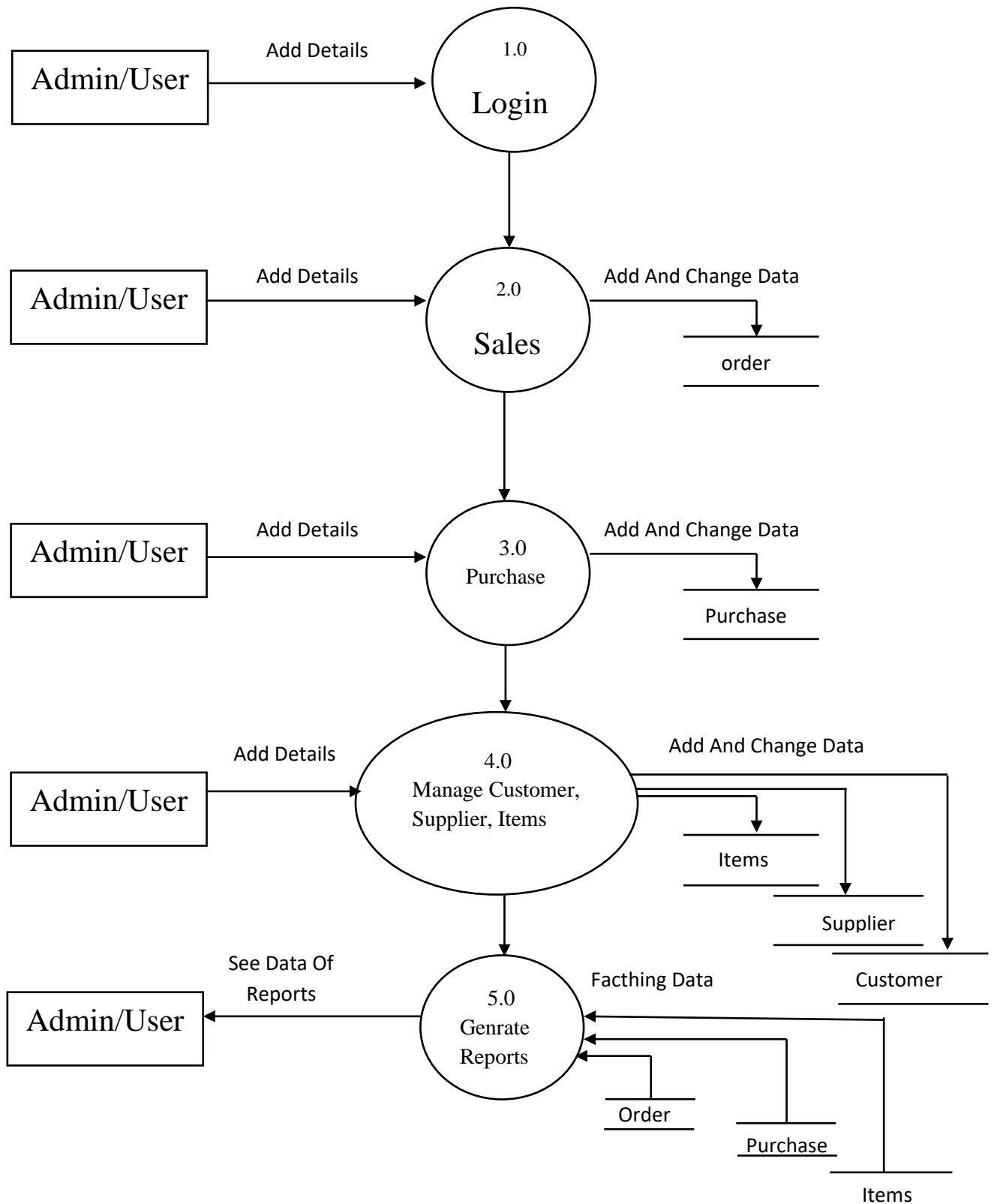
Process



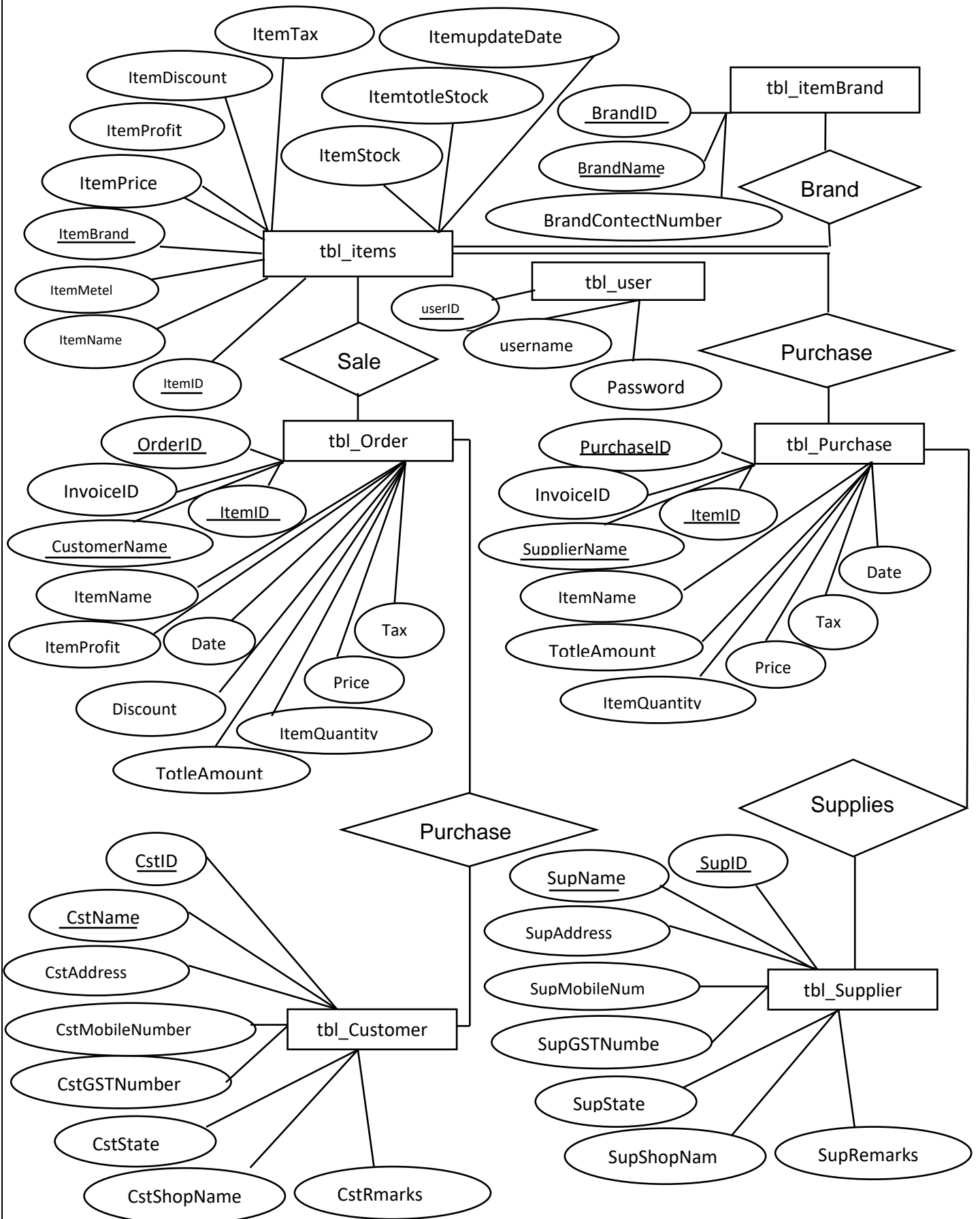
## 1) Context Or Zero Level DFD



## 2)First Level of DFD

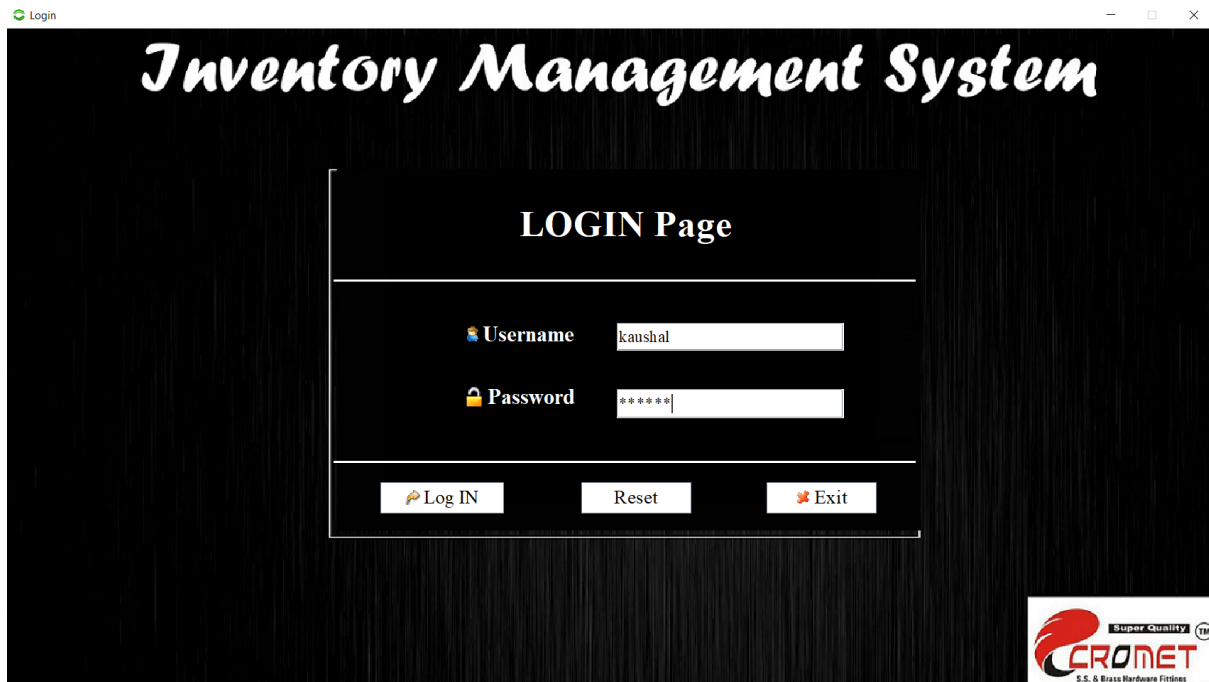


## [6]. Entity Relationship Diagram



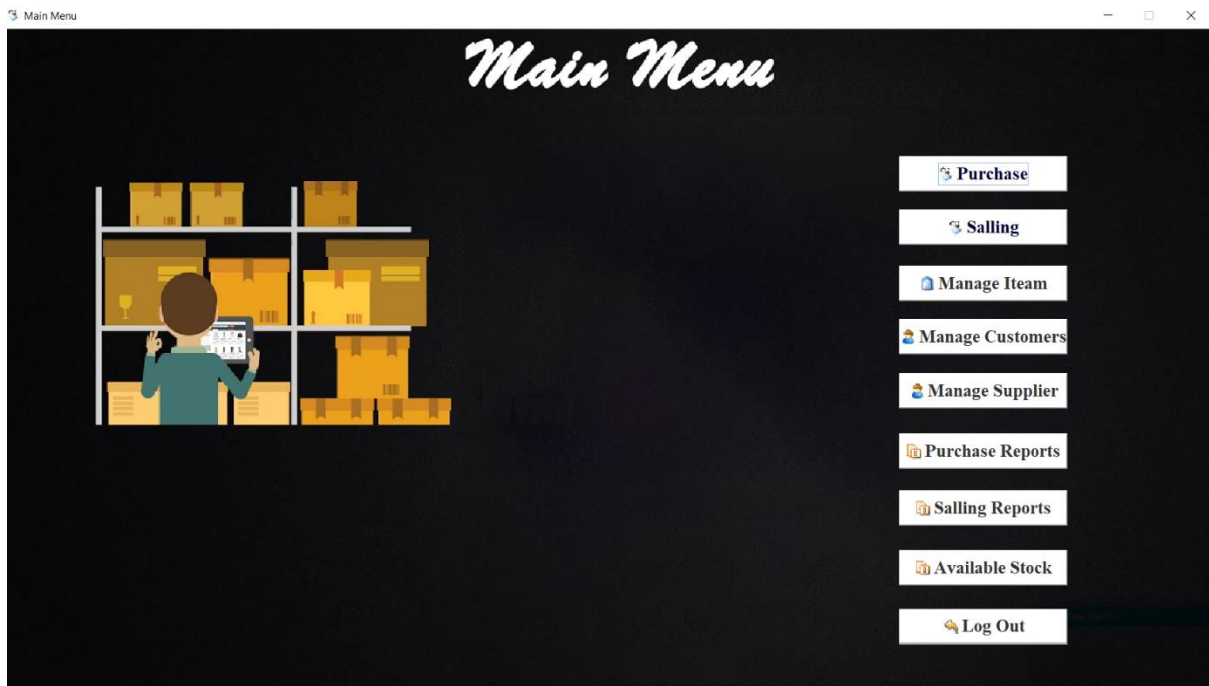
## [7].Forms Layout (Screenshots)

### 1) LogIn



The screenshot shows a web browser window titled "Login" with a dark blue background. The main heading "Inventory Management System" is displayed in a large, white, cursive font. Below it, a white-bordered box contains the "LOGIN Page" title. Inside this box, there are two input fields: "Username" with the text "kaushal" and "Password" with masked characters "\*\*\*\*\*". Below the input fields are three buttons: "Log IN" (with a key icon), "Reset", and "Exit" (with a red X icon). In the bottom right corner of the browser window, there is a logo for "CROMET" with the tagline "Super Quality" and "S.S. & Brass Hardware Fittings".

### 2)Main Menu



The screenshot shows a web browser window titled "Main Menu" with a dark blue background. The main heading "Main Menu" is displayed in a large, white, cursive font. On the left side, there is an illustration of a person standing in front of a shelf filled with yellow boxes, holding a tablet. On the right side, there is a vertical list of ten buttons: "Purchase", "Selling", "Manage Item", "Manage Customers", "Manage Supplier", "Purchase Reports", "Selling Reports", "Available Stock", and "Log Out" (with a key icon).



### 3)Purchase & Billing

Purchases & Billing

[Back](#)

## Purchase & Billing

Supplier Name :-

Invoice No.

Item Id :-

Item Name

Price (₹)

Tax(%)

Quantity

Available Stock

[Calculate](#)

Total Amount

[Update Item](#) [Add](#)

[Update](#) [Delete](#) [Reset](#)

Supplier Name :-  Date :-

Item ID	Item Name	Item Quantity	Item Price	Tax	Total
7	SSL	100	1000	5	105000

Message

**Purchase Confirm**

[OK](#)

Total Amount :-  [Confirm Purchase](#)

### 4)Salling & Billing

Salling & Billing

[Back](#)

Customer Type :- ☒ Old ☐ New

## Salling & Billing

[Modify](#) [Delete](#) [Reset](#)

Customer Name :-  Date :-

Item ID	Item Name	Item Price	Item Quantity	Item Profit	Tax	Discount	Total	SallingDate
7	SSL	1000	500	5	5	5	523687	04/10/2021

Invoice No.

Item ID :-

Item Name

Price (₹)

Tax(%)

Profit(%)

Available Stock

Quantity

Discount(%)  [Calculate](#)

Discounted Ammount

[Update Record](#) [Add](#)

Total Amount :-  [Confirm Order](#)

## 5)Manage Items

Manage Item

Back

Manage Item

Item Name :-

Search

Modify

Delete

Clear

Date :- 04/10/2021

Add New Item

Item ID

Item Type

Item Name

Item Brand

Price ₹

Profit(%)

Tax(%)

Available Stock

Dicount(%)

Calculate

Totle Ammount

Update Item

Add Item

Item ID	Item Name	Item Metal	Brand	Item Quantity	Item Price	Item Profit	Discount	Tax	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

Back

Manage Customer

Customer Shop Name:-

Search

Update

Modify

Remove

Clear

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

Add New Customer

Customer ID

Customer Name

Address

Mobile No

GST No

Shop Name

State

Remarks :

Add New Customer

## 7)Manage Supplier

Manage Supplier

[Back](#)

### Add New Supplier

Supplier ID:

Supplier Name:

Address:

Moblie No:

GST No:

Shop Name:

State:

Remarks:

[Add New Supplier](#)

Supplier Name:-  [Search](#)

[Upd...](#) [Modify](#) [Remove](#) [Clear](#)

Supplier ID	Supplier Name	Address	MobieNo	GSTNumber	ShopName	State	Remarks
1	Dilip	GIDC Face-2	373959058	58y3r83hjfe	dfhdsif	Gujrat	passesivhelpful
2	Rohit	GIDC Face-3	99234567855	vnjvndew9ir	www	RajSthan	tihs is very hon...
3	Mohen	304,GIDC FAC...	9437483373	fhewu92	shreeji	gujrat	insertent Payment

## 8)Purchase Data

Purchase Data

[Back](#)

Search Item :-  Sort By :-  [Search](#)

PurchaseID	InvoiceID	SupplierName	ItemID	ItemName	ItemQuantity	Price	Tex	TotleAmount	Date
------------	-----------	--------------	--------	----------	--------------	-------	-----	-------------	------

## 9)Sales Data



Salling Data

Back

## Salling Data

Search Item :-
Sort By :- OrderId
Search

Orderid	InvoiceID	CustomerName	ItemID	ItemName	Price	Tax	Discount	ItemQuantity	TotleAmount	Date
---------	-----------	--------------	--------	----------	-------	-----	----------	--------------	-------------	------

## 10)Stock Data

Current Stock Data


Back

## Currant Stock Data

Search Item :-
Sort By :- ItemID
Search

Item ID	Item Name	Item Metal	Brand	Item Quantity	Item Price	Item Profit	Discount	Tax	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](http://www.stackoverflow.com)
- [www.c#corner.com](http://www.c#corner.com)
- [www.tutorialspoint.com](http://www.tutorialspoint.com)