

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

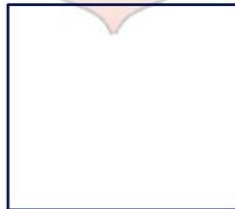
This is to Certify that
Mr./Ms./Mrs. Kaushal D. Tarapra

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)	
BrandConectN umber	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)	

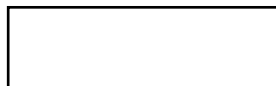
[5]. Data Flow Diagram(DFD)

DFD (Data Flow Diagram):

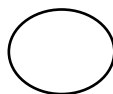
The DFD (Data Flow diagram) is a graphical representation of ‘flow’ of data through an information system, modeling its process aspects. A DFD is often used as a preliminary step to create an overview of system, which can later be elaborated. DFD can also be used for visualization of data processing.

A DFD shows what kind of information will be input to and output from 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.

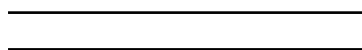
An External entity



Function



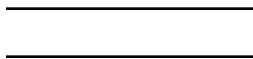
Data Store



Data flow



Database set




Input/output



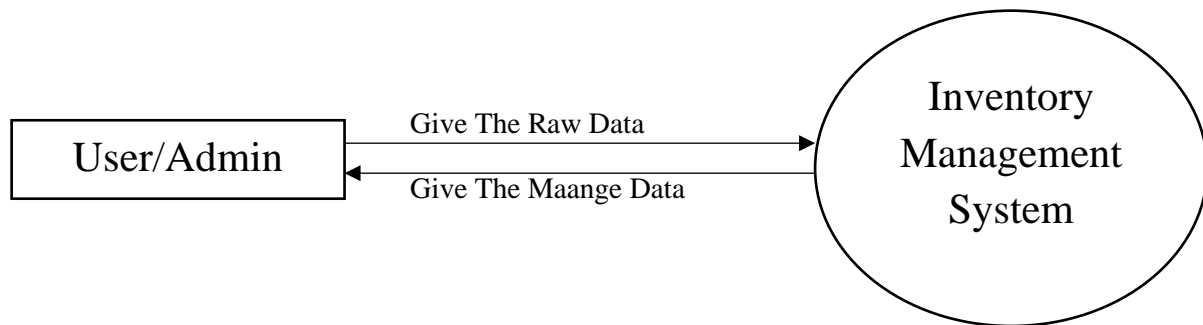
Data Store



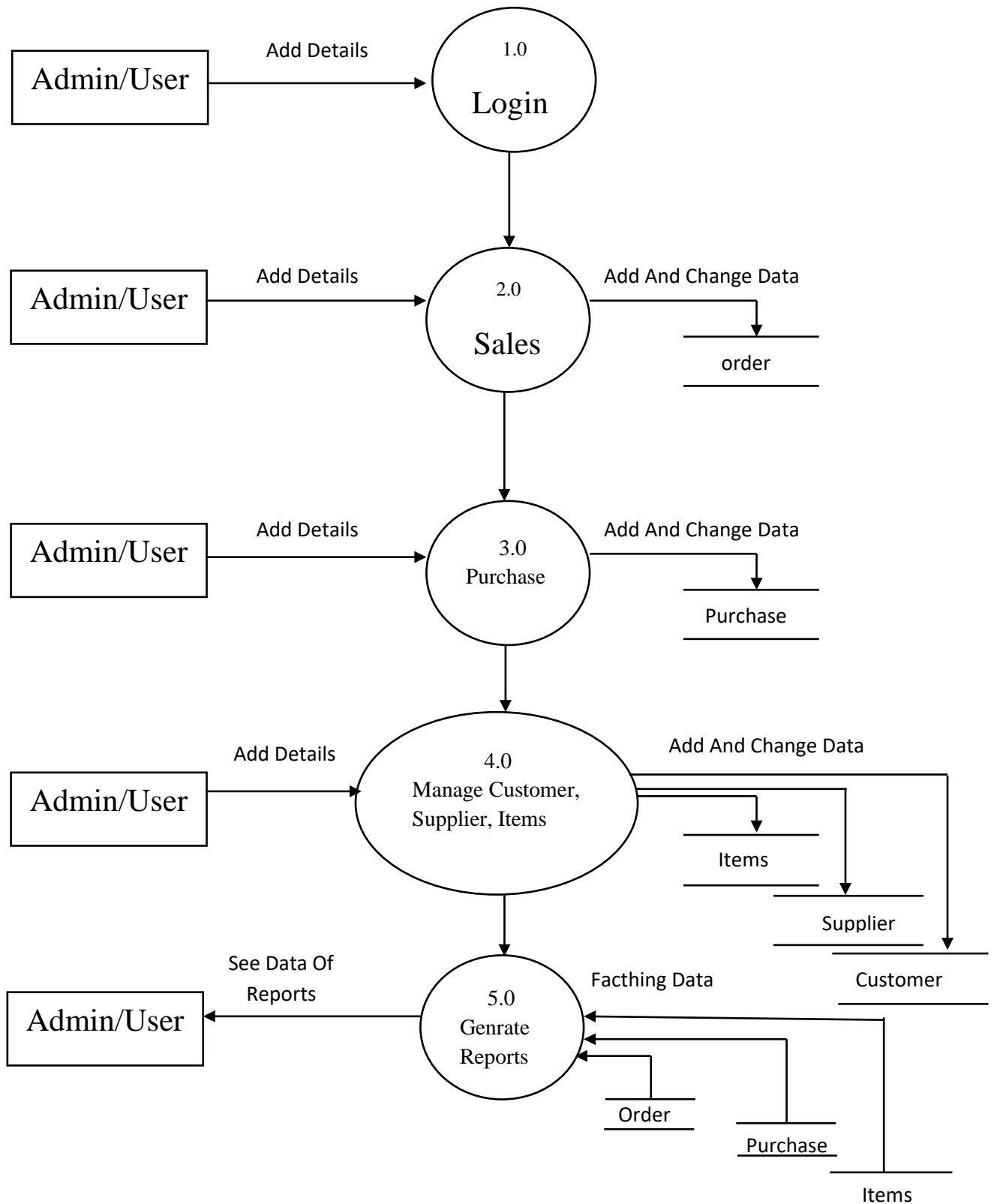
Process



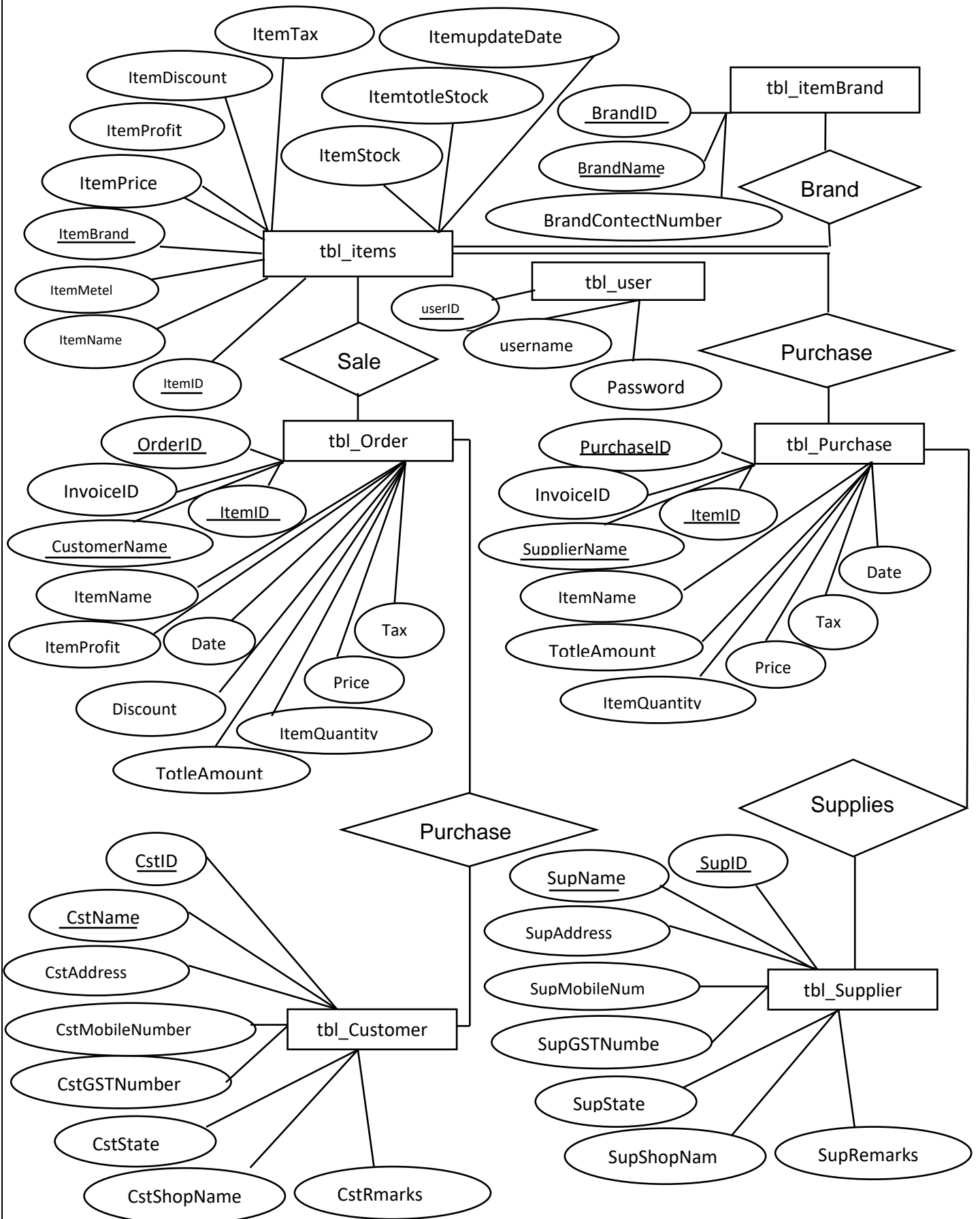
1) Context Or Zero Level DFD



2)First Level of DFD

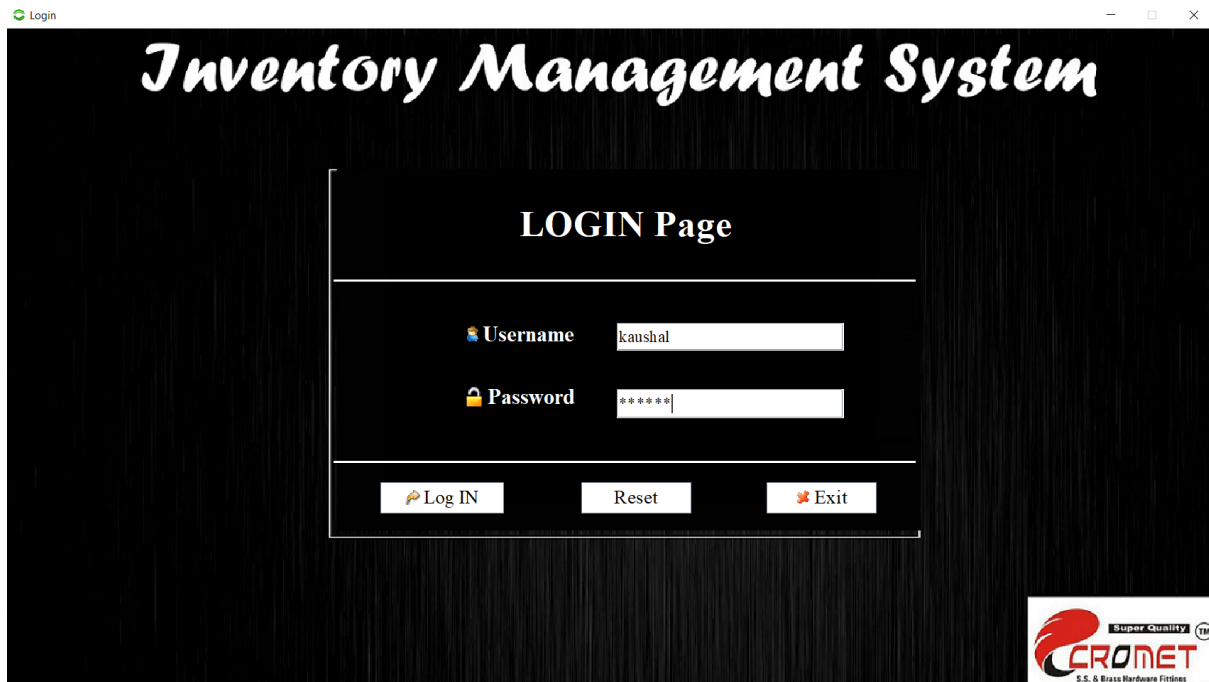


[6]. Entity Relationship Diagram



[7].Forms Layout (Screenshots)

1) LogIn



The screenshot shows the 'Inventory Management System' login interface. The title 'Inventory Management System' is displayed in a large, stylized white font at the top. Below it, a white-bordered box contains the 'LOGIN Page' header. Inside this box, there are two input fields: 'Username' with the value '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). The background is dark blue with a subtle grid pattern. In the bottom right corner, there is a logo for 'CROMET' with the tagline 'Super Quality' and 'S.S. & Brass Hardware Fittings'.

Inventory Management System

LOGIN Page

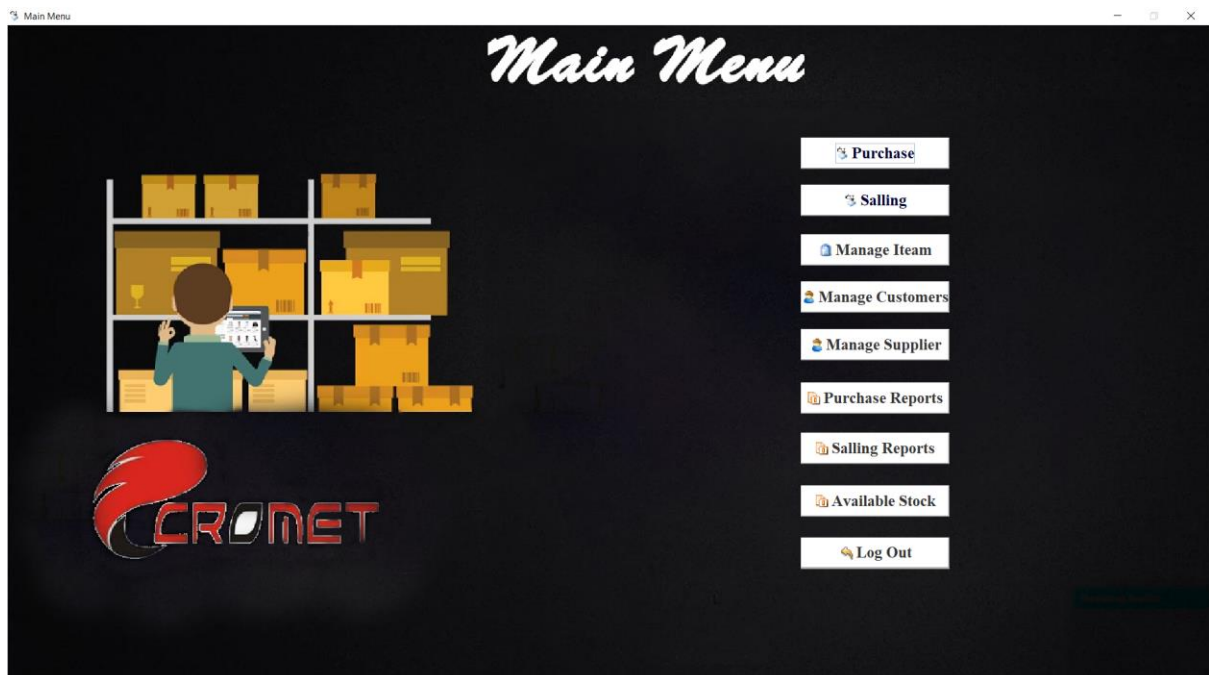
Username kaushal

Password *****

Log IN Reset Exit

CROMET
Super Quality
S.S. & Brass Hardware Fittings

2)Main Menu



The screenshot shows the 'Main Menu' of the Inventory Management System. The title 'Main Menu' is displayed in a large, stylized white font at the top. On the left side, there is an illustration of a person standing in front of a shelf filled with yellow boxes, holding a tablet. Below this illustration is the 'CROMET' logo. On the right side, there is a vertical list of menu items, each with a small icon and a button: 'Purchase' (shopping cart icon), 'Selling' (truck icon), 'Manage Item' (tag icon), 'Manage Customers' (people icon), 'Manage Supplier' (factory icon), 'Purchase Reports' (bar chart icon), 'Selling Reports' (line graph icon), 'Available Stock' (box icon), and 'Log Out' (key icon). The background is dark blue with a subtle grid pattern.

Main Menu

Purchase

Selling

Manage Item

Manage Customers

Manage Supplier

Purchase Reports

Selling Reports

Available Stock

Log Out

CROMET

3)Purchase & Billing

Purchases & Billing

Back

Purchase & Billing

Supplier Name :- Dilip

Invoice No. 105

Item Id :- 7

Item Name SSL

Price (₹) 1000

Tax(%) 5

Quantity 100

Available Stock 10000

Calculate

Total Amount 105000

Update Item **Add**

Update **Delete** **Reset**

Supplier Name :- Dilip Date :- 05/10/2021

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

Message

Purchase Confirm

OK

Total Amount :- 105000

Confirm Purchase

4)Salling & Billing

Salling & Billing

Back

Salling & Billing

Customer Type :- ☒ Old ☐ New

Customer Name :- kaushal T.

Invoice No. 2

Item ID :- 13

Item Name S.S.MIRROR STUD

Price (₹) 1000

Tax(%) 12

Profit(%) 20

Available Stock 72958

Quantity 123

Discount(%) 4

Calculate

Discounted Ammount 158699

Update Record **Add**

Modify **Delete** **Reset**

Customer Name :- kaushal T. Date :- 27/10/2021

Item ID	Item Name	Item Price	Item Quantity	Item Profit	Tax	Discount	Total	SallingDate
12	S.S.BUTT H...	120	123	35	12	4	21423	27/10/2021
13	S.S.MIRRO...	1000	123	20	12	4	158699	27/10/2021

Total Amount :- 180122

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

Current Stock Data

Search Item :-

Sort By :-

ItemID

Search

Item ID	Item Name	Item Metal	Brand	Item Quntity	Item Price	Item 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

Customer Name

Address

Moblie No

GST No

Shop Name

State

Remarks :

Add New Customer

[8]. Limitation & Future Enhancement

Limitation

- It's not work on WAN network.
- Some Validation – I can't give Some fildes validation because of the time limit.
- Some Buges in application – I can't fix bug 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.
- Print a Sales and Purchase invoice.

[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