TERMINAL WAREHOUSE INVENTORY MANAGEMENT

Company Name

Imc Limited ,kandla

IMC

Diploma Computer Engineering Sem. VI

TERMINAL WAREHOUSE INVENTORY
MANAGEMENT SYSTEM

Developed and Designed by

Priya Modi
Khushi Sompura

Under Guidance of
Ms. Honey Gurnani

Tolani Foundation Gandhidham Polytechnic
Adipur (Kutch)

CERTIFICATE

Year :- 2020-2021   Semester :- 5th

Subject : Project-I

This is certify that **Ms. Khushi Sompura, Ms. Priya Modi** having Enrollment No. 196530307064 , 196530307041 has completed IDP Project work having title Terminal Warehouse Inventory Managemant System. All the functionalities required by user with deep analysis and latest techniques.

Date of Submission: _____ .

Internal   External   H.O.D
Examiner   Examiner

_____   _____   _____

IMC LIMITED

Near IOC Foreshore Terminals, Opp. Shirva Railway Crossing, New Kandla - 370 210, India.
Tel : 271223, 271224   E-mail : imckdl@imc.net.in   URL : www.imc.net.in

DNV·GL
ISO 9001 2015

To whom so ever it may concern

This is to inform you that Ms. Priya Modi & Ms. Khushi Sompura are students of Tolani FG polytechnic, Adipur have undertaken project on Terminal warehouse inventory management system and successfully handed over to us. During this period they demonstrated good skills and professionalism.

We wish both of them all the best for their future endeavours.

Regards,
For Imc Limited

Authorised signatory

Gas Terminal : Plot No. 4, Old Kandla. Tel : 271203
Liquid Terminal : Opp. Shirva Railway Crossing, New Kandla. Tel : 270609
Port Terminal : Near Labour Canteen, Inside Kandla Port, New Kandla. Tel : 270369
Registered Office : 232/A, Achariya Jagdish Bose Road, Kolkata -700 020, India.
CIN : U15428WB1935PLC008245

ACKNOWLEDGEMENT

I would like to thank to our guide of this project, Ms.Honey Gurnani For the valuable guidance and advice. She inspired us greatly to work in this project. Her willingness to motivate us contributed tremendously to our project. We also would like to thank her for showing us some example that related to the topic of the project.

Besides, we would like to thank the authority of TFGP for providing us with a good environment and facilities to complete this project. Finally, an honorable mention goes to our friends for their understanding and supports on us in completing this project. Without the above, we would have faced many difficulties doing this help of the particulars mentioned project

<u>DEVELOPED AND DESIGNED
BY</u>

Student : Khushi Sompura [196530307064]

Priya Modi [196530307041]

Guide Name :   Mrs. Honey Gurnani

Mr. Vimal Vania

Submitted :   Head , Computer Department.

Affiliated :   TFGP Tolani Foundation Gandhidham
Polytechnic Adipur (Kutch).

Date of Submission : __/__/____

INDEX

Name   **Page No.**

Chapter : 1
INTRODUCTION

PROJECT SUMMARY

- **Abstract:** *Currently IMC limited is using SAP software ..*
- *SAP's most features are useful for Purachase Related Task..*
- *But it is not very useful for Terminal Warehouse store's Each and Every items According to Departments And Terminal..*
- *As our Client require to Manintain Storing Each items According to Departments And Terminal manually That's Why We creating This Software*

1.   1 Introduction :

Terminal Warehouse inventory management software has been in human requirements since all thought of managing item effectively According to ter,minal and department. It is widely used in Companies and other fields of where Storing items and manage it manually ia the main task

Purpose :

The Purpose of

- Terminal Warehouse inventory management software is to make work easy.
- In this Windows – Application we have added the Functionalities as per the Requirements.
- The Work which was done **Manually** can be now done **Digitally.**
- As our Client require to Manintain Storing Each items According to Departments And Terminal manually That's Why We creating This   Software

1.2 Features :

- The Login Form for the Security Purpose.

- The Main Form.

- The Different forms for Data Entery of Department , Faculty, Subjects , Lab, Rooms etc.

Store Facality

- Stores Departments Terminal wise

- Stores Items Department wise

Security

- Only Admin can Access All things

- Other users can access only Their tasks

Inward

- Maintain Inward

- Purchase Inward : Maintain Supplier Wise Inward Who Suppies Products

- Terminal Inward : Maintain Terminal Wise Inward

Outward

- Maintain Outward

- Material Issue Department Wise

- Material Issue For Use

Reports

- Maintain date wise report

- Item wise And Depatment wise report

- Stock report

- Date Wise Report

- Supplier Wise Report

1.4 Technology Stack:

In Context	Tools & Technology
Front End	VB.Net 2019
Design and Components	VB.Net 2019
Database Design	Microsoft SQL Server Management 2019

Chapter : 2
PROJECT MANAGEMENT

2.1 Project Planning:

The road to the successful Windows Application Development is the well-planned strategy for the best and optimal use of resources available Project management begins with a set of activities that are collectively called project planning The project planning in done in a way to get the maximum utilization of resources and on time completion of the project Project planning is concerned with identifying and measuring the activities, milestones and deliverables produced by a project

In system the first step in project planning in which we decided the title of our Terminal Warehouse Inventory Management Softwarre is the name of Windows-Application.

In project planning we decided the admin module which module will be design first and then we think about other forms.

Project planning consists of the following essential activities

- Estimating some basic attributes of the project

- Duration: How long will it take to complete the development? Effort: How much effort would be

  required?

- The effectiveness of the subsequent planning activities is based on the accuracy of these estimations.

- Scheduling manpower and other resources.

- Item organization and item plans.

- Risk identification, analysis, and planning.

1.Project Organization :

This describes the way in which the development team is organized the people involved and their roles in team.

2. Risk Analysis :

This describes possible project risks like likelihood of those risks arising and the risk reduction stratifies, which are proposed. The significant risk in our website development is requirement error and omissions. Therefore, cost of fixing the requirement errors at later stages in process can be very high. Experiments have shown that SDLC reduces number of problems associated with the requirement specification. Furthermore, the overall development cost may be lower if a SDLC is developed.

The risk of our system is that it will successfully run. All the Forms where perform the task in correct way, and for users it will attractive to the users so that they will easily use the Application.

3. Hardware and Web-Application Requirements:

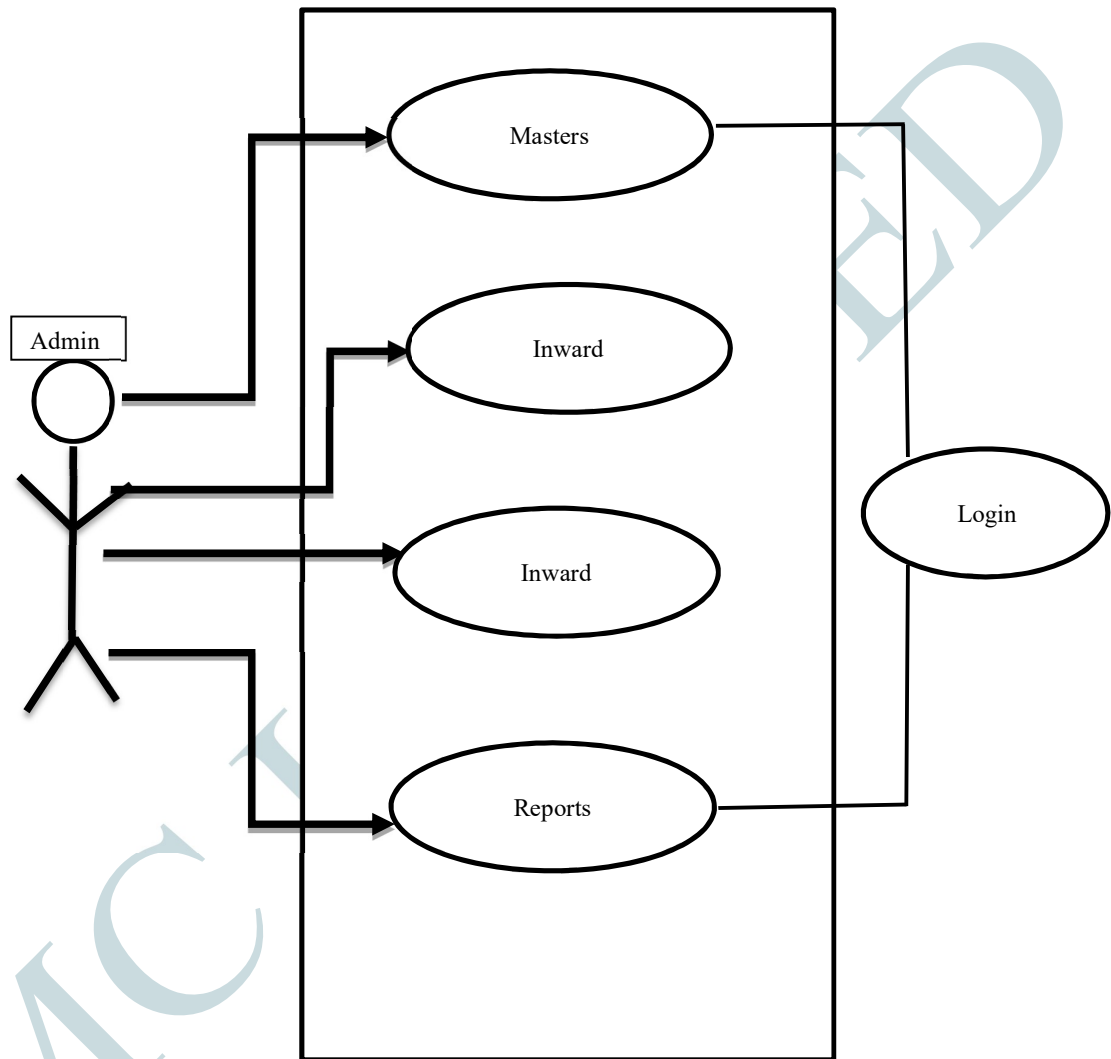Hardware Requirement
C2D Processor 4 GB RAM 4 GB free Space HDD drive

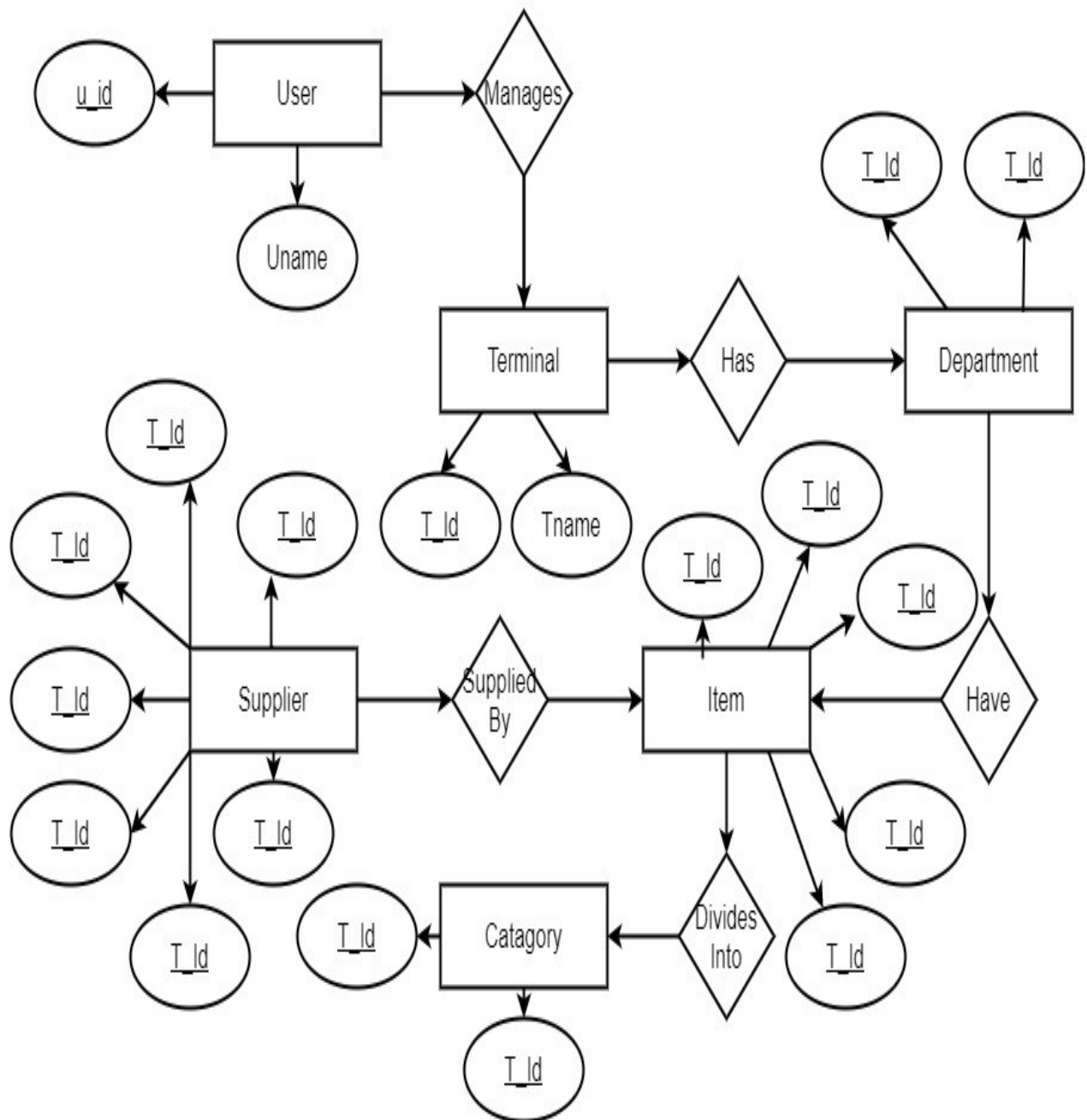| Processor	C2D Processor
Ram	4GB
HDD	4GB Free Space

Chapter : 3
SYSTEM ANALYSIS

3.1System Architecture:

```
        ┌──────────────┐
   ┌───▶│  Login Page  │
   │    │(id & Password)│
   │    └──────┬───────┘
   │           │
   │           ▼
   │    ┌──────────────┐                  ┌─────────────────────┐
   │    │Add Department│─────────────────▶│  Insert Details info │
   │    └──────┬───────┘                  │      database        │
   │           │                          └─────────────────────┘
   │           ▼
   │    ┌──────────────┐
   │    │ Add terminal │───────────┐
   │    └──────┬───────┘
   │           │
   │           ▼
   │    ┌──────────────┐
   │    │   Add Item   │───────────┐
   │    │   Details    │
   │    └──────┬───────┘
   │           │
   │           ▼
   │    ┌──────────────┐
   │    │Enter Supplier│───────────┐
   │    └──────┬───────┘
   │           │
   │           ▼
   │    ┌──────────────┐
   │    │   Add User   │───────────┐
   │    └──────┬───────┘
   │           │
   │           ▼
   │    ┌──────────────┐
   │    │Generate Reports│─────────┐
   │    └──────┬───────┘
   │           │
   │           ▼
   │    ═══════╪═══════
   │           ▼
   │    ┌──────────────┐
   └────│    Logout    │
        └──────────────┘
```
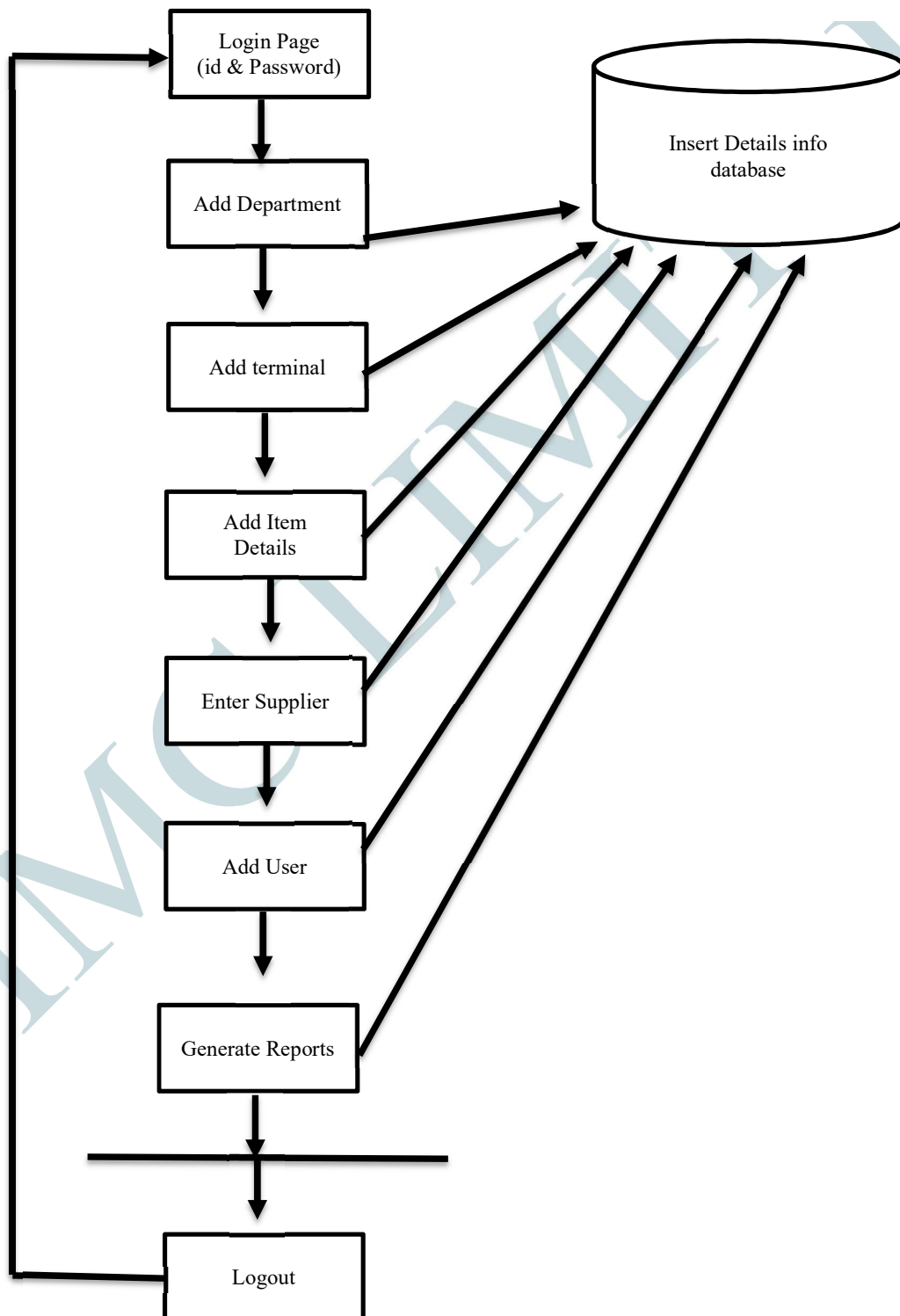
Use Case:-

3.3 ER DAIGRAM:

<u>Chapter : 4</u>

SYSTEM DESIGN

4.1Data Dictionary :

Login :- login details comes in its table.

	Column Name	Data Type	Allow Nulls
▶🔑	Id	int	☐
	uname	varchar(50)	☐
	password	varchar(10)	☐
	terminal	varchar(50)	☐
	department	varchar(50)	☐
			☐

Department :- Department details comes in this table.

	Column Name	Data Type	Allow Nulls
▶🔑	Id	int	☐
	dname	varchar(50)	☐
	tname	varchar(50)	☐
			☐

Terminal :- Terminal details comes in this table.

	Column Name	Data Type	Allow Nulls
▶🔑	Id	int	☐
	tid	varchar(50)	☐
	tname	varchar(50)	☐
			☐

Supplier :- Supplier details comes in this table.

Column Name	Data Type	Allow Nulls
Id	int	☐
sname	varchar(50)	☐
sadd	varchar(200)	☐
city	varchar(50)	☐
s_phn	varchar(10)	☐
email	varchar(50)	☐
gst_no	varchar(50)	☐
		☐

Category :- Category details comes in this table.

Column Name	Data Type	Allow Nulls
Id	int	☐
cname	varchar(50)	☐
		☐

Item :- Item details comes in this table.

Column Name	Data Type	Allow Nulls
Id	int	☐
iname	varchar(50)	☐
uom	varchar(50)	☐
category	varchar(50)	☐
qty	int	☐
		☐

Inward :- Inward details comes in this table.

Column Name	Data Type	Allow Nulls
Id	int	☐
sname	varchar(50)	☐
sadd	varchar(200)	☐
idate	date	☐
ino	int	☐
bill_no	int	☐
bill_date	date	☐
tname	varchar(50)	☐
dname	varchar(50)	☐
category	varchar(50)	☐
iname	varchar(50)	☐
uom	varchar(50)	☐
qty	real	☐
rate	real	☐
		☐

Outward :- Outward details comes in this table.

Column Name	Data Type	Allow Nulls
Id	int	☐
issue_no	varchar(50)	☐
issue_date	date	☐
rec_byt	varchar(50)	☐
rec_byd	varchar(50)	☐
terminal	varchar(50)	☐
department	varchar(50)	☐
iname	varchar(50)	☐
uom	varchar(50)	☐
qty	real	☐
		☐

Terminal_Inward : Terminal inward Detail Comes into this table

Column Name	Data Type	Allow Nulls
Id	int	☐
issue_no	varchar(50)	☐
issue_date	date	☐
idate	date	☐
rec_byt	varchar(50)	☐
rec_byd	varchar(50)	☐
ino	int	☐
tname	varchar(50)	☐
dname	varchar(50)	☐
category	varchar(50)	☐
iname	varchar(50)	☐
uom	varchar(50)	☐
qty	real	☐
rate	real	☐
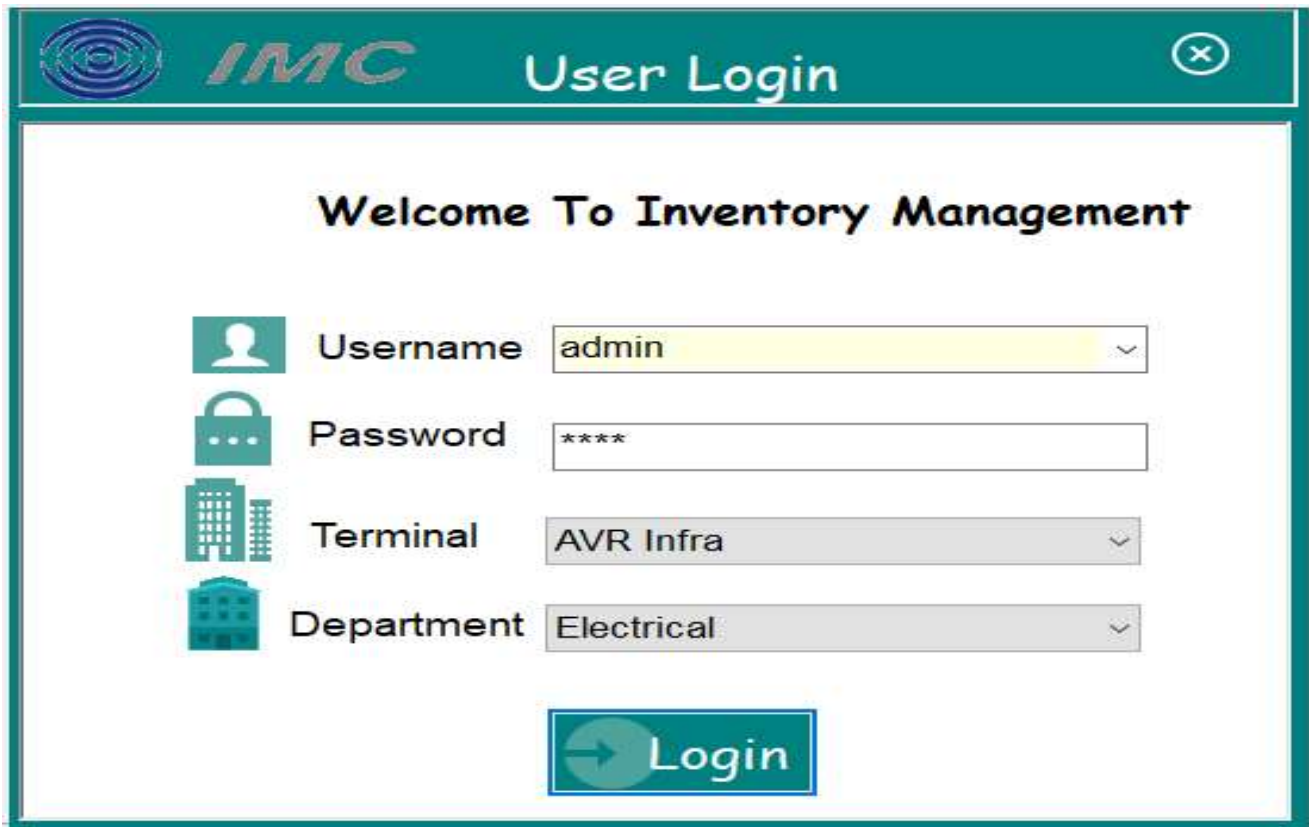
Stock : Stock come into this table

Column Name	Data Type	Allow Nulls
Id	int	☐
category	varchar(50)	☐
tname	varchar(50)	☐
dname	varchar(50)	☐
iname	varchar(50)	☐
uom	varchar(50)	☐
qty	real	☐
		☐

Chapter : 5
Screen Layout

Login Form:- this form is use for login.

Splash Screen :

Main Form:- main page where user can enter data.

Terminal Form :- this form is use for Terminal entry.

Department From :-   this form is use for Departments entry.

Catagory Form :- this form is use for catagory entry.

Item Form :- this form is use for Item entry.

Supplier Form :- this form is use for supplier entry.

User Form :- this form is use for User entry.

Login History : Admin Can See Login History Here

Transaction

Purchase Inward Form :- this form is use for Purchase Inward entry.

Purchase Inward | Print

Purchase Inward

⊕ 💾 🗑 ✕   🖨 Print All 🖨 Print

Supplier Name	Mr Sompura
Address	kalyan
Inward Date	03 September 2021

Inward no	1
Bill No	1
Bill Date	03 September 2021

⊕ 🔍 [   ]

	Terminal	Department	Category	Item	Unit	Qty	Rate	Total
	imc	Electrical	Testing Equipr	Tester	no	10	200	2000

	ID	Supplier	Address	Inward Date	Inward no.	Bill No.	Bill Date	Terminal	Department	Category	Item	Unit
▶	69	Mr Sompura	kalyan	03-09-2021	1	1	03-09-2021	imc	Electrical	Testing Equ...	Tester	no
	70	mrmodi	six-53	03-09-2021	12	11	03-09-2021	Liquid	Storage	Testing Equ...	Tester	no
	71	Mr Sompura	kalyan	15-09-2021	102	120	08-09-2021	AVR Infra	Market	Testing Equ...	hammer	no
	72	Mr Sompura	kalyan	15-09-2021	101	102	15-09-2021	AVR Infra	Storage	Testing Equ...	hammer	no

Terminal Inward Form :- this form is use for Terminal Inward entry.

Terminal Inward | Print | Report

Terminal Inward

⊕ 💾 🗑 ✕   🖨 Print 🖨 Print All

Recived By

Issue No.	123
Issue Date	03 September 2021
Invoice Date	13 September 2021

Terminal	imc
Department	Electrical
Inward no	111

⊕ 🔍 [   ]

	Terminal	Department	Category	Item	Unit	Qty	Rate	Total
	terminal	dep1	Testing Equipmen	Tester	no	12	100	1200

	ID	Issue No	Issue Date	Invoice Date	Terminal	Department	Inward No	Terminal	Department	Category	Item	Unit
▶	2	123	03-09-2021	13-09-2021	imc	Electrical	111	terminal	dep1	Testing Equ...	Tester	no
	3	123	03-09-2021	13-09-2021	imc	Electrical	12	terminal	dep1	cat1	Nuts	kg
	4	2	03-09-2021	15-09-2021	avr	lt	34	imc	Electrical	Testing Equ...	Tester	no
	5	102	15-09-2021	15-09-2021	JRE infraa	Market	111	AVR Infra	Market	Testing Equ...	hammer	no

Outward Form :- this form is use for Outward entry.

Purchase Outward | Print | DateWise Report

Purchase Outward

[+] [💾] [🗑] [×]   🖶 Print   🖶 Print All

Recived By

Issue No. **12**   Terminal **terminal**

Issue Date **03 September 2021**   Department **dep1**

Issue From   Purpose Of Outward :   ● For Use   ○ Other Purpose

Terminal	Department	Item	Unit	Qty
imc	Electrical	Tester	no	10

	ID	Issue No	Issue Date	Recieved By Terminal	Recivied By Department	Terminal	Department	Item Name	Unit Of Measurement	Quantity
▶	7	12	03-09-2021	terminal	dep1	imc	Electrical	Tester	no	10
	8	123	03-09-2021	imc	Electrical	terminal	dep1	Tester	no	10
	9	001	15-09-2021	JRE infraa	Market	AVR Infra	Electrical	Nuts	kg	2
	10	102	15-09-2021	JRE infraa	Market	AVR Infra	Market	hammer	no	8
	11	1022	15-09-2021	JRE infraa	Electrical	AVR Infra	Storage	hammer	no	8

Reports

Stock Report On Generate All Option

Stock Report

🌀 Generate   🌀 Generate All   🖶 Print   🖶 Print All

Terminal **imc**   Department **Electrical**

Category **Accesories**   Item Name

Print | Stock Report

	ID	Category	Terminal Name	Department Name	Item Name	UOM	Qty
▶	8	Testing Equipment	imc	Electrical	Tester	no	12
	11	Testing Equipment	imc	Electrical	hammer	no	23
	12	cat1	imc	Electrical	Nuts	kg	2
	13	cat1	avr	lt	Nuts	kg	2
	15	Testing Equipment	AVR Infra	Market	hammer	no	2
	18	Testing Equipment	avr	lt	Tester	no	0
	10	Testing Equipment	terminal	dep1	Tester	no	0
	16	Testing Equipment	JRE infraa	Market	Tester	no	12
	17	Testing Equipment	JRE infraa	Market	hammer	no	8
	19	Testing Equipment	AVR Infra	Storage	hammer	no	7

Print of Stock Report On Print All Option

Stock Report Of selected Field

Print Stock Report Of selected Field

Supplier Inward Report Date Wise

Report Of Supplier Inward Report Date Wise

Report Of Purchase Inward Report Date Wise

Report Of Terminal Inward Report Wise

Report Of Terminal Inward Report Date Wise

Report Of Outward Report Print All

Print Outward Report Of selected Field

Report Converted into PDF

Id	Issue No	issue date	Received By Terminal	Received By Department	Terminal	Department	Item Name	UOM	Qty
10	102	15-09-2021	JRE infraa	Market	AVR Infra	Market	hammer	no	8.00

IMC Limited Kandla

India's Leading Independent Bulk Liquid Storage Company Your One Stop Solution For Bulk Liquid Storage Needs At Indian Ports

Issue No: 102 15-00-2021

Terminal : JRE infraa

Department Market

27-09-2021

Chapter : 6

CONCLUSION
AND
LIMITATION

6.1 Conclusion:

The Terminal Warehouse Inventory Management System Windows-Application Has been successfully completed by the developer within the scheduled time and all the function requirement of the project that Were set in SRS have been fully achieved. The external interface requirement and input/output formats have been implemented as Per the requirement specifications.

6.2 Limitation:

- Security policy is dependent on password protection.

6.3 Future scope of the Project:

- In future we can comeover the Limitations of the   project.
- Forgot Password And Otp System.
- We can update the security Policy and can provide higher Security.

Thank You