

Gujarat Technological University

Chandkheda, Ahmedabad



A Report on **Inventory Management System**

Under Subject of
Design Engineering
B.E III , Semester – VI
(Computer Engineering & Computer Science Engineering)

Submitted By

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Abstract

In this “Inventory Mangement System” project, We made Software .In which first thing users need to do is authenticate themselves. This Software lets you Enter price values and user will get the output from calculating System. Our app will benefit the Current market and shop owners .It can be called as record keeping System.

Acknowledgement

I would like to express my thanks of gratitude to this department for the academic achievement that it has provided us during last three years and finally provided us the golden opportunity to do this wonderful project. And my special thanks to professor Mital Sarvaiya, who also helped me in during a lot of research and I come to know about so many new things, I really thankful to her.

We are pleased to present this report on the project, “Inventory Mangement System” developed of B.H Gardi College of engineering as the computer department based on Gujarat Technological University.

B.H. GARDI COLLEGE OF ENGINEERING



CERTIFICATE

This is to certify that the “Inventory Management System” has been carried out by Prashant Rai, Enrollment No.(190040131512) under guidance in fulfilment of the subject Design Engineering in COMPUTER SCIENCE & ENGINEERING (6th semester) of Gujrat Technological University, Ahmedabad during the academic year 2022.

DATE: 16-3-2022

GUIDE:

Project Guide

Prof.Mital Sarvaiya

Head of the Department

Prof.Hemal Rajyaguru

B.H. GARDI COLLEGE OF ENGINEERING



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3.3.4 Data Flow Diagram

3.3.5 Sequence Diagram

4.1 Implementation Environment

List of Tables

- Users
 - 1) Shop Owners
 - 2) Retail Customers
 - 3) Supermarts
 - 4) Malls
 - 5) Merchants
 - 6) Whole-sale Businesses

Ch 1 – Introduction

Project Summary

This project will make inventory system fast and easy to use and it will integrate inventory with database. This project will help marketing and business people save time . instead of using books for record and going through each destinations it helps identifies items.

1.1 Goals and Objectives

Main goal of this project is to save time and be flexible using this software and do less interactions with system and get instant results. one of the major objective of this project is ,that it calculate Bills and has SQLite3 database system to manage data and at the end of process user will receive a printed slip.

1.2 Scope

To make inventory system easy and flexible to user.

To make software that is user recognizable and easy to use.

To save time calculating and managing database.

Ch 2 – System Requirement and study

User characteristics

With This software users can manage

inventory system .The role of a entity :

- **Users :**

Users are the part of this desktop app who will use all the features included in this Software like Login/Signup, generate bill, Add employee , Registration , OTP functionality for forgotten password etc.

2.1 Hardware and Software Requirements

Software Requirements

- POS
- Web Browser
- VS Code
- Com
- Operation System (Any)
- System Storage

Hardware Requirements

- Desktop or Laptop (Device To run Software on)
- 512MB Ram
- 200MB Free Storage Space
- Printer

Ch 3 – System Analysis

Feasibility Study

The feasibility study is the important step in any project development process. This is because it makes analysis of different aspects like cost required for developing and executing the system. The time required for each phase of the system and so on. In this important factors which are not analyzed, that defiantly would have impact on the organization and development of the system would be a total failure.

- **Technical feasibility** : The development of the system is technically feasible as the various technology needs for the development and deployment are fulfilled. The system is to be developed using familiar software and hardware environment tools(windows 10,various text editors, Python,SQLITE3).
- **Economic feasibility** : economic feasibility is important as it gives an idea if the project to be developed can be completed at the enough cost, affordable for both the client and the developer. The system is undertaken for the development as the part of the degree course curriculum development course is to be change for project. Thus the system is economical feasible for the developer. The required software are available with company. So the project is economically feasible for the developer as well as the client.
- **Operational feasibility** : operational feasibility states that it should work under condition for it to be operationally feasible. In order to make the system easy to use for user, the user interface of the system proposed has been kept extremely simple. So that any one with little knowledge of operating, working on the computer can easily carry out the job. By doing so there is no need for the company either to recruits some special individual. Thus the project is operationally feasible.

3.2 Data Modelling

3.2.1 Admin

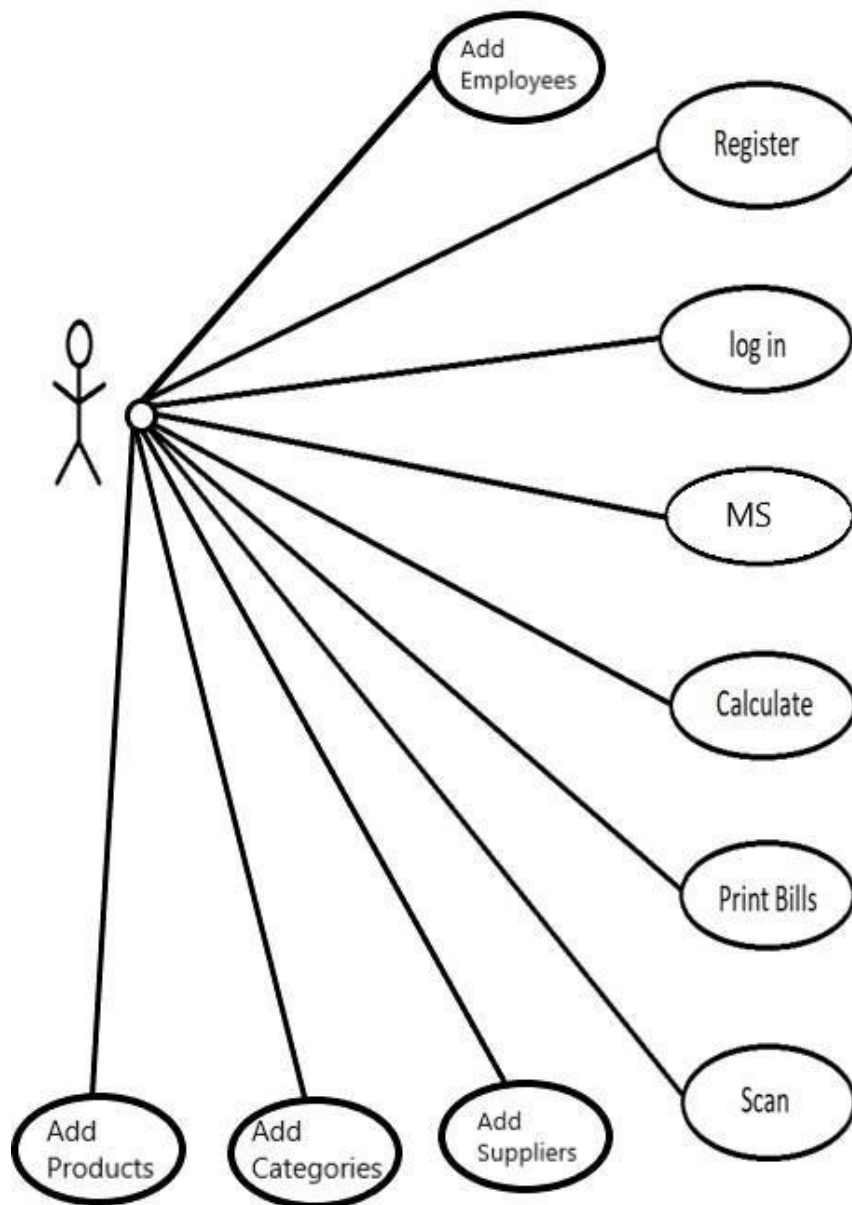


Fig 3.2.1 User case diagram (Admin)

3.2.2 E-R Diagram (user)

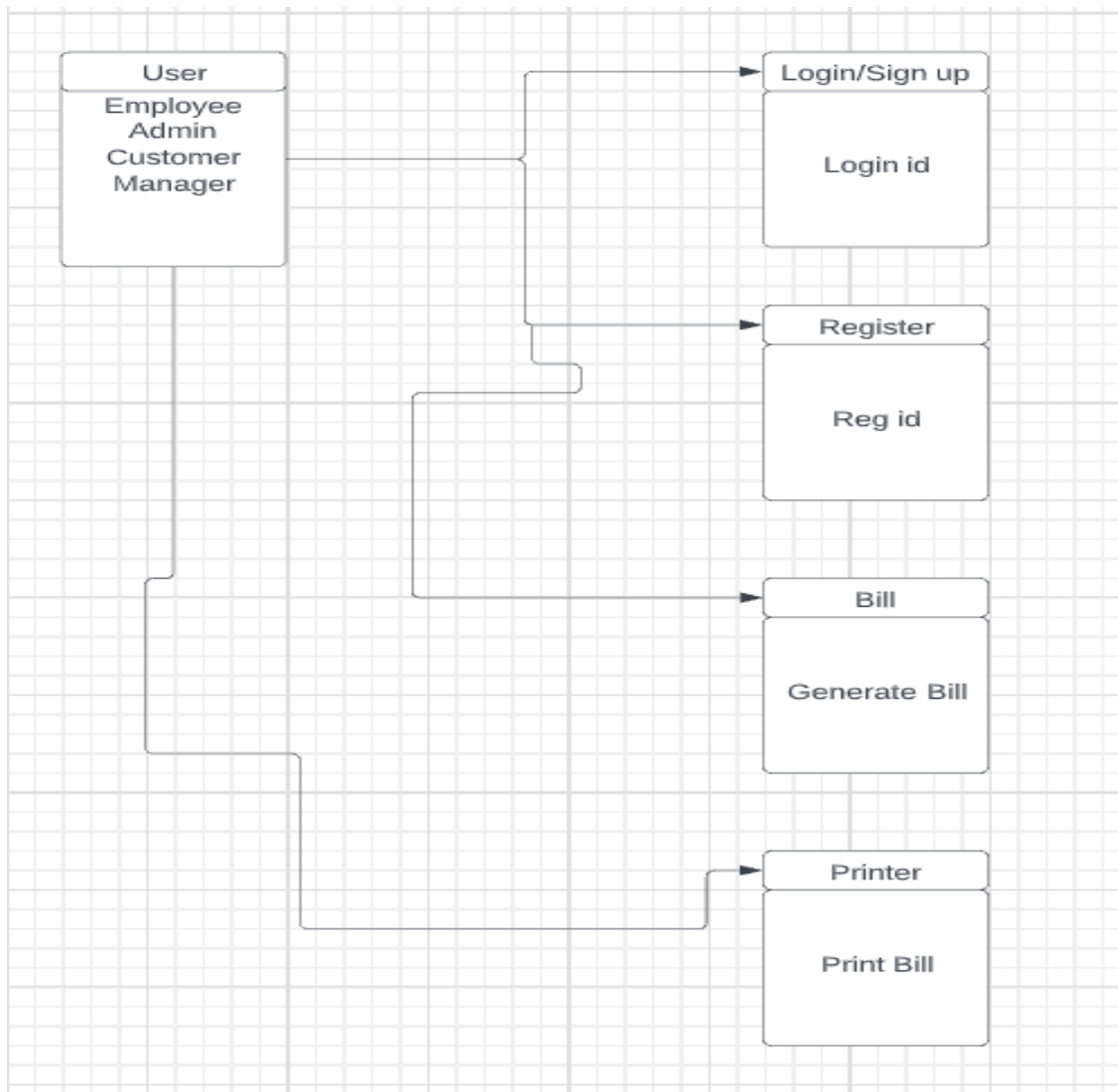
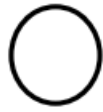


Fig 3.2.2 E-R Diagram

3.2.3 Activity Diagram Notations



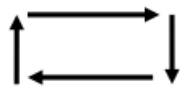
Start



Stop



Activity



Point Arrow



Condition



Parallel Activity

3.2.3 Activity Diagram (user)

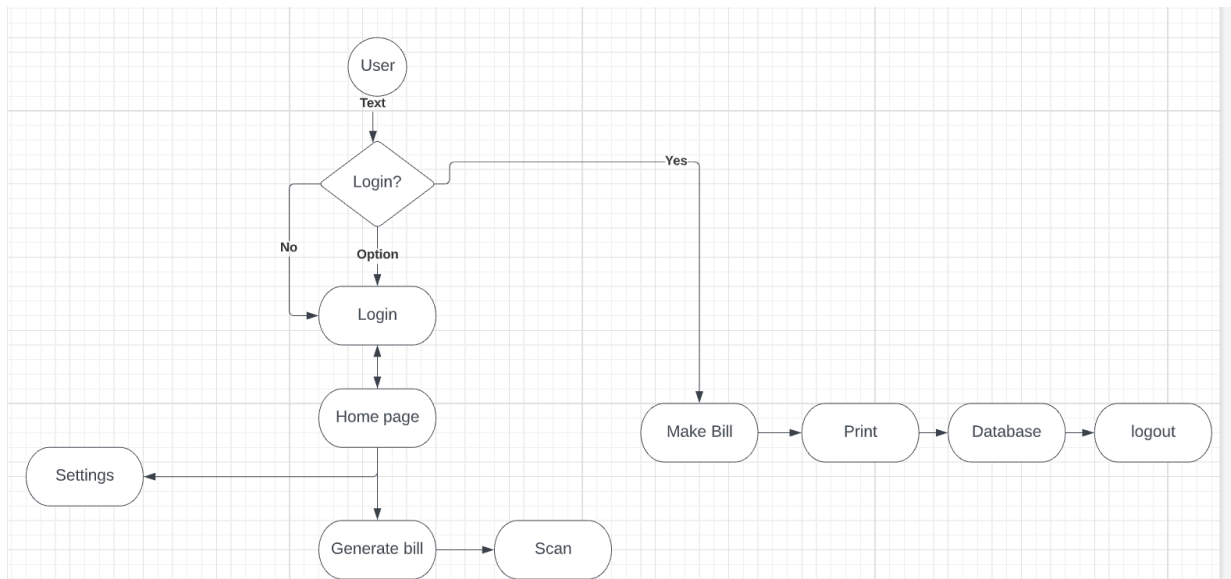
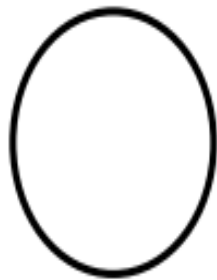


Fig 3.2.3 Activity Diagram

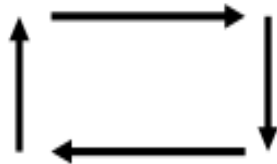
3.2.4 Data flow diagram notations



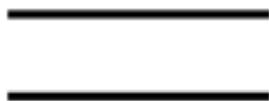
Entity / User



Process / Function



Connector



Data Storage

3.2.4 Data Flow Diagram

- DFD Level 0

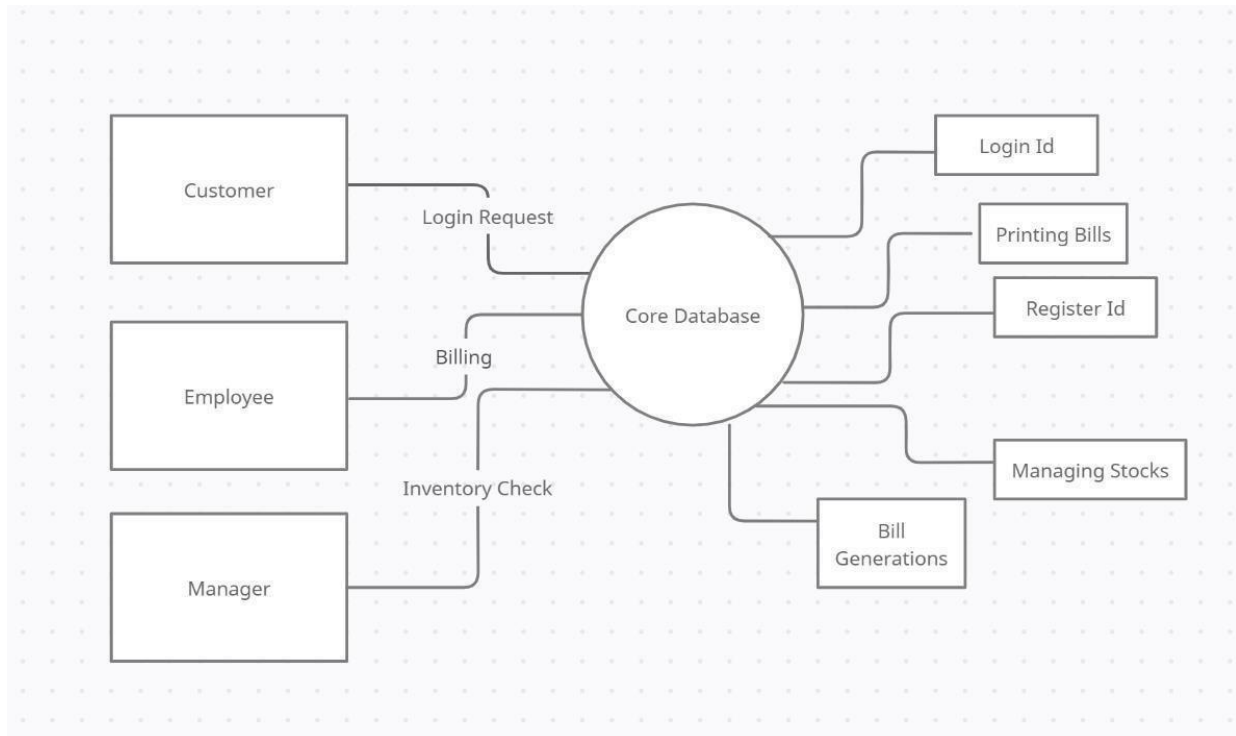


Fig 3.2.4 Data Flow Diagram

3.2.5 Sequence Diagram

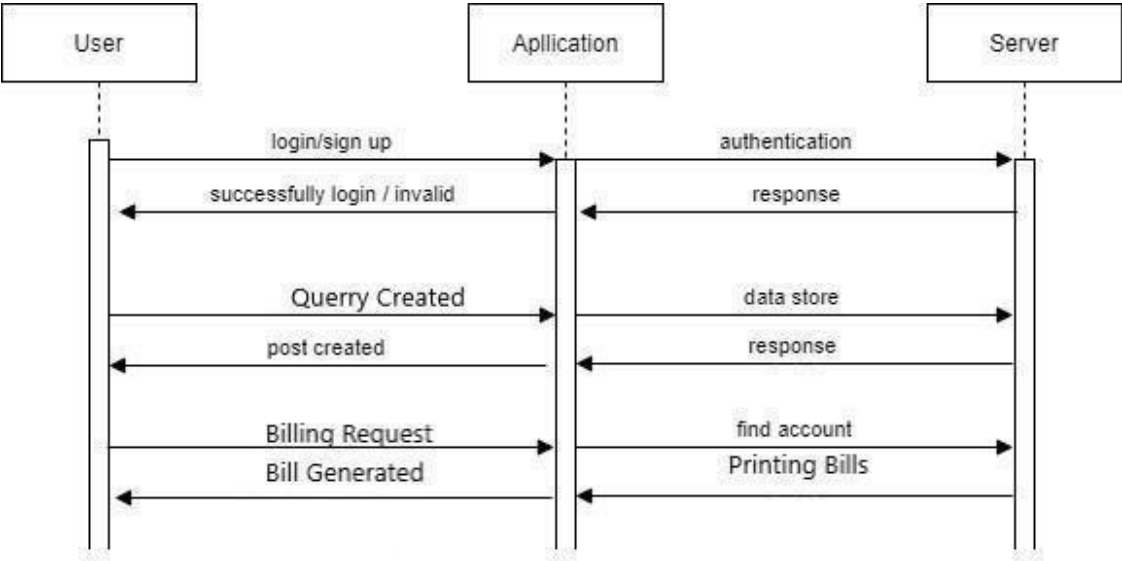


Fig 3.2.5 Sequence Diagram

Ch 4 – System Implementation

4.1 Implementation Environment

Home Page



Fig:4.1.1 Home Page

Supplier Details Page

Inventory Management System

Welcome to Inventory Management System Date : DD-MM-YYYY Time :HH:MM:SS

Menu

- » Employee
- » Supplier
- » Category
- » Products
- » Sales
- » Exit

Supplier Details

Invoice No.

Name

Contact

Description

Invoice No.

Invoice No.	Name	Contact	Description
1	Xiaomi	7889455612	All varieties
2	OPPO	789562314	Smartphone
3	Realme	755362314	Smartphone
4	Oneplus	755366656	Smartphone
5	Apple	8922232322	Smartphone
6	Narzo	986532245	Smartphone

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Windows 10 Taskbar: 12:56, 15-03-2022

Fig:4.1.2 Supplier Detail Page

Employee Details Page

Inventory Management System

Inventory Management System

Welcome to Inventory Management System Date : DD-MM-YYYY Time :HH:MM:SS

Logout

Menu

- Employee
- Supplier
- Category
- Products
- Sales
- Exit

Search Employee

select Search

Employee Details

Emp ID: 101 Gender: Male Contact: 7359030520

Name: Prashant Rai D.O.B: 10-05-2001 D.O.J: 10-07-2022

Email: prashantrai@gmail.c Password: jkdgg@jhgc44 User Type: Admin

Address: Morbi Salary: 100000

Save Update Delete Clear

EMP ID	NAME	EMAIL	GENDER	CONTACT	D.O.B	D.O.J	PASSWORD	USER TYPE	ADDRESS	SALARY
101	Prashant Rai	prashantrai@gmail.c	Male	7359030520	10-05-2001	10-07-2022	jkdgg@jhgc44	Admin	Morbi	100000
102	Megha	mg@yahoo.com	Female	7889454563	12-03-1998	12-03-1998	bavyevga	Employee	Jamnagar	15000
103	Krunal	krunal@gmail.co	Male	7894561230	12-12-12	12-05-12	jbdakbvk@54	Employee	rajkot,454131	40000
104	Himanshu	himan@google.c	Male	7889788978	4-12-1998	12-8-2005	himan/45	Employee	saraswati	45000
105	Ajay	ajay@yahoo.com	select	7856231245	12-12-12	12-12-12	asjdggakd	Employee	ganganagar	15000

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Type here to search

38°C Smoke ENG 12:56 15-03-2022

Fig:4.1.3 Employee Detail Page

Manage product Details Page


Inventory Management System



Inventory Management System

Logout

Welcome to Inventory Management SystemDate : DD-MM-YYYYTime : HH:MM:SS



Menu

» Employee

» Supplier

» Category

Products

» Sales

» Exit

Inventory Management System

Manage Product Details

Category: Mobile Phones

Supplier: Xiaomi

Name: POCO X3

Price: 21000

Quantity: 100

Status: Active

Save

Update

Delete

Clear

Search Product

select

Search

Prod ID	Category	Supplier	Name	Price	QTY
3	Mobile Phones	Xiaomi	POCO X3	21000	100
5	Smartphones	OPPO	Find X	49000	10
6	Earbuds	Xiaomi	TWS 2	2999	15
7	Smartphones	Realme	8	15000	10

Fig: 4.1.4 Manage Product Details Page

27

Product Category

The screenshot displays the 'Inventory Management System' interface. At the top, a dark blue header bar contains the system name, a 'Logout' button, and a status bar with 'Welcome to Inventory Management System', 'Date : DD-MM-YYYY', and 'Time :HH:MM:SS'. A left sidebar menu lists 'Menu', 'Employee', 'Supplier', 'Category', 'Products', 'Sales', and 'Exit'. The main window, titled 'Manage Product Category', features a text input field for 'Enter Category Name' with 'Smartphones' entered, and 'ADD' and 'DELETE' buttons. A table on the right lists categories:

Category ID	Name
7	Smartphones
8	IPad

Below the input field are two illustrations: a 3D isometric view of a retail store and a woman using a smartphone to browse clothing. The bottom status bar shows 'All Rights Reserved | Developed by Prashant Rai', a search bar, taskbar icons, and system information including '38°C Smoke', 'ENG', and the date '15-03-2022'.

Fig: 4.1.5 Product Category

Manage Product Category



Fig:4.1.6 Product Category

Manage Product Category

The screenshot displays the 'Inventory Management System' interface. At the top, a dark blue header contains a shopping cart icon, the system name, and a 'Logout' button. Below this, a purple banner shows 'Welcome to Inventory Management System', the date 'DD-MM-YYYY', and the time 'HH:MM:SS'. On the left, a vertical menu lists 'Menu', 'Employee', 'Supplier', 'Category', 'Products', 'Sales', and 'Exit'. The main area features a 'Manage Product Category' window. This window has a title bar, a header, and a form to 'Enter Category Name'. Below the form is a table with two columns: 'Category ID' and 'Name'. The table lists 'Smartphones' (ID 7) and 'iPad' (ID 8). To the right of the table are 'ADD' and 'DELETE' buttons. Below the table are two illustrations: a 3D isometric view of a retail store and a woman in a red dress standing next to a clothing rack. At the bottom of the window, there is a status bar with the text 'All Rights Reserved | Developed by Prashant Rai'. The Windows taskbar at the very bottom shows the search bar, taskbar icons, and system tray information including temperature, smoke detector, and time.

Inventory Management System

Logout

Welcome to Inventory Management System Date : DD-MM-YYYY Time :HH:MM:SS

Inventory Management System

Manage Product Category

Enter Category Name

Smartphones

ADD DELETE

Category ID	Name
7	Smartphones
8	IPad

Activate Windows
Go to Settings to activate Windows.

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Type here to search

38°C Smoke ENG 12:56 15-03-2022

4.1.7 Product Category

Fig:

Employee Details

Table:

employee

Filter in any column

	eid	name	email	gender	contact	dob	doj	pass	utype	address	salary
	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	101	Prashant Rai	prashanrai@gmail.com	Male	7359030520	10-05-2001	10-07-2022	jkdg@jhg44	Admin	Morbi ...	100000
2	102	Megha	mg@yahoo.com	Female	7889454563	12-03-1998	12-03-1998	bavyevga	Employee	Jamnagar...	15000
3	103	Krunal	krunal@gmail.com	Male	7894561230	12-12-12	12-05-12	jbdakbvk@54	Employee	rajkot,454131 ...	40000
4	104	Himanshu	himan@google.com	Male	7889788978	4-12-1998	12-8-2005	himan!45`	Employee	saraswati nagar,rajkot...	45000
5	105	Ajay	ajay@yahoo.com	select	7856231245	12-12-12	12-12-12	aaJDgagkd	Employee	ganganagar ...	15000
6	106	Eshnat	fenhff xdfg xdx	select	9865321245	21+++65066	6+6562	nviHvisht	Admin	xhgh...	45000

1 - 6 of 6

Go to:

Activate Windows
 Go to Settings to activate Windows.

Fig:4.1.8 Employee detail Table

4.1 Coding Standard

- A coding standard gives a uniform appearance to the codes written by different engineers. It improves readability, maintainability of the code and it reduces complexity also. It helps in code reuse and helps to detect error easily. It prompts sound programming, practice and increase efficiency of programmers.

4.2 Coding Standard

Main Window Source Code

```
from tkinter import*
from PIL import Image,ImageTk
from employee import EmployeeClass
from supplier import SupplierClass
from category import CategoryClass
from product import ProductClass
from sales import SalesClass
from exit import ExitClass

class IMS:
    def __init__(self,root):
        self.root=root
        self.root.geometry('1350x700+0+0')
        self.root.title('Inventory Management System')
        self.root.config(bg="white")

        #-----Title and Header 1-----
        self.icon_cart=PhotoImage(file="Stock Images/logo1.png")

        lbl_title=Label(self.root,image=self.icon_cart,compound=LEFT,padx=30,text="I
nventory Management System",font=('times new
roman',40,"bold"),bg="#010c48",fg="white",anchor="w").place(x=0,y=0,height
=70,relwidth=1)

        btn_logout=Button(root,text="Logout",font=("Imperial",15,"bold"),bd=5,relief
=RIDGE,cursor='hand2',bg='yellow').place(x=1200,y=15,height=40, width=100)

        #-----Title and Header 2-----
        self.lbl_clock=Label(self.root,text="Welcome to Inventory Management
System\t\t\tDate : DD-MM-YYYY\t\t\tTime :HH:MM:SS",font=('goudy old
style',15,"bold"),bg="#a200ff",fg="white").place(x=0,y=70,height=30,relwidth=
1)

        #-----Left Menu Frame-----
        self.left_icon=Image.open("Stock Images/menu_im.png")
        self.left_icon=self.left_icon.resize((200,200),Image.ANTIALIAS)
        self.left_icon=ImageTk.PhotoImage(self.left_icon)
        left_menu=Frame(self.root,bd=2,relief=RIDGE,bg='white')
        left_menu.place(x=0,y=100,width=200,height=565)
```

```
lbl_left_icon=Label(left_menu,image=self.left_icon)
lbl_left_icon.pack(side=TOP,fill=X)
```

```
#-----BUTTON & LABEL-----
```

```
lbl_menu=Label(left_menu,text="Menu",font=("times new
roman",20),bg="#02c262").pack(side=TOP,fill=X)
self.icon_side=PhotoImage(file="Stock Images/side.png")
```

```
btn_employee=Button(left_menu,image=self.icon_side,compound=LEFT,padx=5,
,anchor="w",text="Employee",font=("times new
roman",20,"bold"),bd=3,bg="white",cursor="hand2",command=self.employee)
.pack(side=TOP,fill=X)
```

```
btn_supplier=Button(left_menu,image=self.icon_side,compound=LEFT,padx=5,
,anchor="w",text="Supplier",font=("times new
roman",20,"bold"),bd=3,bg="white",cursor="hand2",command=self.supplier).
pack(side=TOP,fill=X)
```

```
btn_category=Button(left_menu,image=self.icon_side,compound=LEFT,padx=5,
,anchor="w",text="Category",font=("times new
roman",20,"bold"),bd=3,bg="white",cursor="hand2",command=self.category
).pack(side=TOP,fill=X)
```

```
btn_product=Button(left_menu,image=self.icon_side,compound=LEFT,padx=5,a
nchor="w",text="Products",font=("times new
roman",20,"bold"),bd=3,bg="white",cursor="hand2",command=self.product).
pack(side=TOP,fill=X)
```

```
btn_sales=Button(left_menu,image=self.icon_side,compound=LEFT,padx=5,anc
hor="w",text="Sales",font=("times new
roman",20,"bold"),bd=3,bg="white",cursor="hand2",command=self.sales).pac
k(side=TOP,fill=X)
```

```
btn_exit=Button(left_menu,image=self.icon_side,compound=LEFT,padx=5,anch
or="w",text="Exit",font=("times new
roman",20,"bold"),bd=3,bg="white",cursor="hand2",command=self.exit).pack
(side=TOP,fill=X)
```

```
#-----Content and Dashboard-----
```

```
self.lbl_employee_block=Label(self.root,text="Total Employees\n[ 0
]",bd=5,relief=RIDGE,bg="#33bbf9",fg="white",font=("goudy old
style",20,"bold"))
self.lbl_employee_block.place(x=300,y=120,height=150,width=300)
```

```
self.lbl_supplier_block=Label(self.root,text="Total Supplier\n[ 0
]",bd=5,relief=RIDGE,bg="red",fg="white",font=('goudy old
style",20,"bold"))
```

```
self.lbl_supplier_block.place(x=650,y=120,height=150,width=300)
```

```
self.lbl_category_block=Label(self.root,text="Total Category\n[ 0
]",bd=5,relief=RIDGE,bg="#2aff12",fg="white",font=('goudy old
style",20,"bold"))
```

```
self.lbl_category_block.place(x=1000,y=120,height=150,width=300)
```

```
self.lbl_product_block=Label(self.root,text="Total Products\n[ 0
]",bd=5,relief=RIDGE,bg="#607d8b",fg="white",font=('goudy old
style",20,"bold"))
```

```
self.lbl_product_block.place(x=300,y=300,height=150,width=300)
```

```
self.lbl_sales_block=Label(self.root,text="Total Sales\n[ 0
]",bd=5,relief=RIDGE,bg="#ffc107",fg="white",font=('goudy old
style",20,"bold"))
```

```
self.lbl_sales_block.place(x=650,y=300,height=150,width=300)
```

```
#-----Footer-----
```

```
self.lbl_footer=Label(self.root,text="All Rights Reserved | Developed by
Prashant Rai",font=('goudy old
style",12,"bold"),bg="#a200ff",fg="white").pack(side=BOTTOM,fill=X)
```

```
#=====
=====
```

```
def employee(self):
```

```
self.new_win=Toplevel(self.root)
```

```
self.new_obj=EmployeeClass(self.new_win)
```

```
def supplier(self):
```

```
self.new_win=Toplevel(self.root)
```

```
self.new_obj=SupplierClass(self.new_win)
```

```
def category(self):
```

```
self.new_win=Toplevel(self.root)
```

```
self.new_obj=CategoryClass(self.new_win)
```

```
def product(self):
```

```
self.new_win=Toplevel(self.root)
```

```
self.new_obj=ProductClass(self.new_win)
```

```
def sales(self):  
    self.new_win=Toplevel(self.root)  
    self.new_obj=SalesClass(self.new_win)
```

```
def exit(self):  
    self.new_win=Toplevel(self.root)  
    self.new_obj=ExitClass(self.new_win)
```

```
if __name__=="main_":
```

```
    root=Tk()  
    obj=IMS(root)  
    root.mainloop()
```

4.3 Coding Standard

Database source code

```
import sqlite3

def create_db():
    con=sqlite3.connect(database=r'ims.db')
    cur=con.cursor()
    cur.execute("CREATE TABLE IF NOT EXISTS employee(eid
INTEGER PRIMARY KEY AUTOINCREMENT,name text,email
text,gender text,contact text,dob text,doj text,pass text,utype
text,address text,salary text)")
    con.commit()

    cur.execute("CREATE TABLE IF NOT EXISTS supplier(invoice
INTEGER PRIMARY KEY AUTOINCREMENT,name text,contact
text,description text)")
    con.commit()

    cur.execute("CREATE TABLE IF NOT EXISTS category(cid
INTEGER PRIMARY KEY AUTOINCREMENT,name text)")
    con.commit()

    cur.execute("CREATE TABLE IF NOT EXISTS product(pid
INTEGER PRIMARY KEY AUTOINCREMENT,category text,
supplier text,name text, price text, qty text, status text)")
    con.commit()

create_db()
```

4.4 Bill Receipt

Welcome Fast Bill Retail

Bill No. : 1349

Customer Name : Prashant Rai

Phone Number : 4214684645

Products	QTY	Price
Food Oil	23	4140
Sprite	23	920

Grocery Tax		Rs. 414.0
Cold Drinks Tax		Rs. 46.0
Total Bill :		Rs. 5520.0

Ch 5 – Testing

5.1 Testing Planning, Objectives and Strategies

- **Testing Planning**

We planned to catch the errors by try and catch blocks. Then we solve the errors one by one. I also keep the record of all the errors so that in future it will be helpful to us. Software testing is an important technique for assessing the quality of a software product. Software testing is the process of analysis a software item to detect the differences between existing and required condition and to evaluate the features of the software item. Software testing is an activity that should be done throughout the whole development process. Software testing is one of the “verification and validation” or V&V, software process. Made such that the product build is not what the customer asked for; validation always involves comparison against requirement.

- **Testing Objectives**

Black box testing should make use of randomly generated input, to eliminate any guess work by the tester as to the methods of the function.

- Data outside of the specified input range should be tested to check to robustness of the program.
- Boundary cases should be tested to make sure that highest and lowest allowable inputs produce proper output.
- The number zero should be tested when numerical data is to be input.
- Stress testing should be performed (try to overload the program with input to see where it reaches its maximum capacity), especially with real time systems.
- Crash testing should be performed to see what it takes to bring the system down.
- Other functional testing technique include: transaction testing, syntax testing, domain testing, and logic testing, and start testing. Finite state machine models can be used as a guide to design functional tests.

- **Objective of testing:**

The main purpose of testing and information system is to find the errors and correct them. A successful test is one find and errors.

- To discuss the distinctions between validation testing and defect testing.
- To describe the principles of system and component testing.
- To describe strategies for generating system test cases.
- To understand the essential characteristics of tool used for test automation.
- Testing is a process of executing a program with the intent of finding an error. A good test case is one that has a high probability of finding an undiscovered error.
- To ensure customer satisfaction, enhance business and set a good reputation for the software developer.

Ch 6 - Limitation and Features

6.1 Limitations

- Barcode scanning will be introduced in future and is not available yet.
- Functionalities can be enhanced in future with seeing the market trend.

6.2 Future Enhancement and Scope

- User Friendly
- Registrations
- Add Products
- Login/Sign-in
- Add Employees
- Generate Bills
- Some advancements in security ,etc

Ch 7 – References

References

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Ch 8 - Conclusion

Conclusion

This Python GUI desktop application focuses on the ease of using the software for all the stakeholders and users. And also by providing all the necessary functionalities which are already present in the market like printing and generating bills for the retail customers along with that our project comes with the managing the inventory features which is a big problem solver for any retail shop or supermarket. User can maintain his own inventory by getting all the required access as an admin and making all the required changes afterwards. For safety and privacy purpose we also have a login panel in our software which is required for one time to get you verified. This project is a complete overview of billing software and inventory software and thus it can be differentiated from others applications.