

PROJECT REPORT SUBMITTED IN FULLFULEMENT OF PYTHON TRAINING

SUBMITTED BY:-

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PROJECT NAME
(Inventory Management System)
using
Python Tkinter with SQLite

ACKNOWLEDGEMENT

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I am obliged to my project team members for the valuable information provided by them in their respective fields. I am grateful for their cooperation during the period of my assignment

Full Signature of the Candidates (with date)

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INTRODUCTION

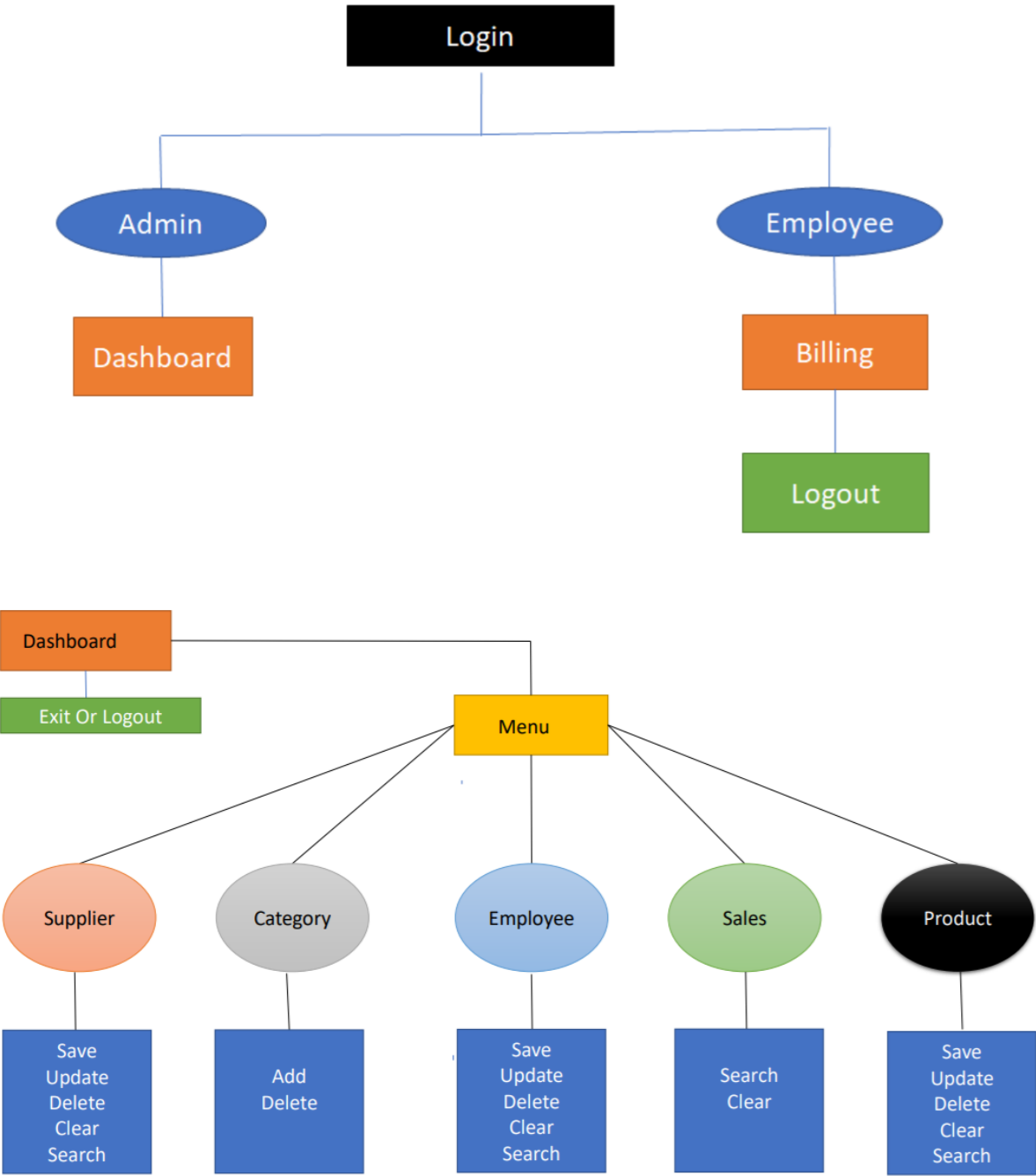
The inventory management ensures that the company always has the required materials and products in hand while keeping the cost as low as possible. Inventory Management refers to the process of supervising and controlling the stock items of a company. Typically, Inventory Management Systems are used by firms that either sell a product or manufacture a product for the purpose of accounting all the tangible goods that allow for a sale of a finished product, or parts for making a product. This inventory management system can be used to store the details of the inventory, update the inventory based on the sale details, generate receipts for sales, generate sales and inventory reports periodically. This inventory management software has one module, Admin. Admin has the authority to add, update and delete an inventory. This inventory management software also has its own intelligently managed support system. This intelligent support system allows admin to view and manage various inventories.

OBJECTIVE

The main objective of inventory management is to maintain inventory at appropriate level to avoid excessive or shortage of inventory because both the cases are undesirable for business. Thus, management is faced with the following conflicting objectives:-

1. To keep inventory at sufficiently high level to perform production and sales activities smoothly.
2. To minimize investment in inventory at minimum level to maximize profitability.

PROJECT WORK FLOW



MODULES AND FUNCTIONALITY

- **Login**:- Admin or Employee can login his account using id and password.
- **Add supplier**:- Admin can add cashier by adding cashier details.
- **Add Product**:- Admin can add product.
- **View Supplier details**:- Admin can view cashier details.
- **View Sales**:- Admin can also view the sales done.
- **Add category**:- User can add category.
- **Update stock**:- Admin can add, delete the stock.
- **Billing**:- Employee can generate bills.

SOFTWARE AND HARDWARE REQUIREMENTS

Hardware Requirement Specifications:-

PROCESSOR :- Intel i3 or i5 1.8 GHz.

MOTHERBOARD :- According to the processor requirement

RAM :- 4GB.

FREE DISK SPACE :- 100MB

Software:-

PROGRAMMING LANGUAGE USED: **PYTHON3.9**

GUI Creation: **Tkinter**

IDE USED: **PyCharm**

Database: **SQLite**

DATABASE / TABLE INFORMATION

First table:- Employee

It stores the data about employee like name,email,gender,contact,date of birth(DOB),date of joining(DOJ),password,usertype,address,salary.

Second table:- Supplier

It stores the data of supplier like name ,contact , description.

Third table:- Category

It stores the variety of products.

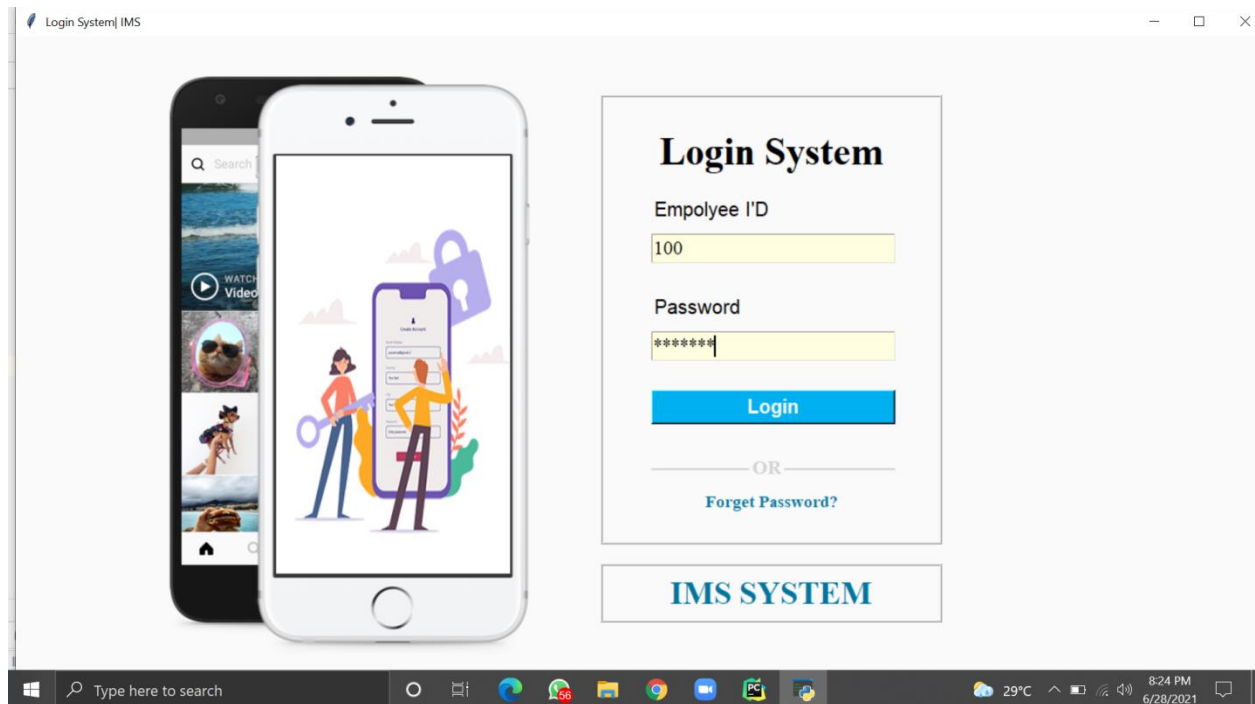
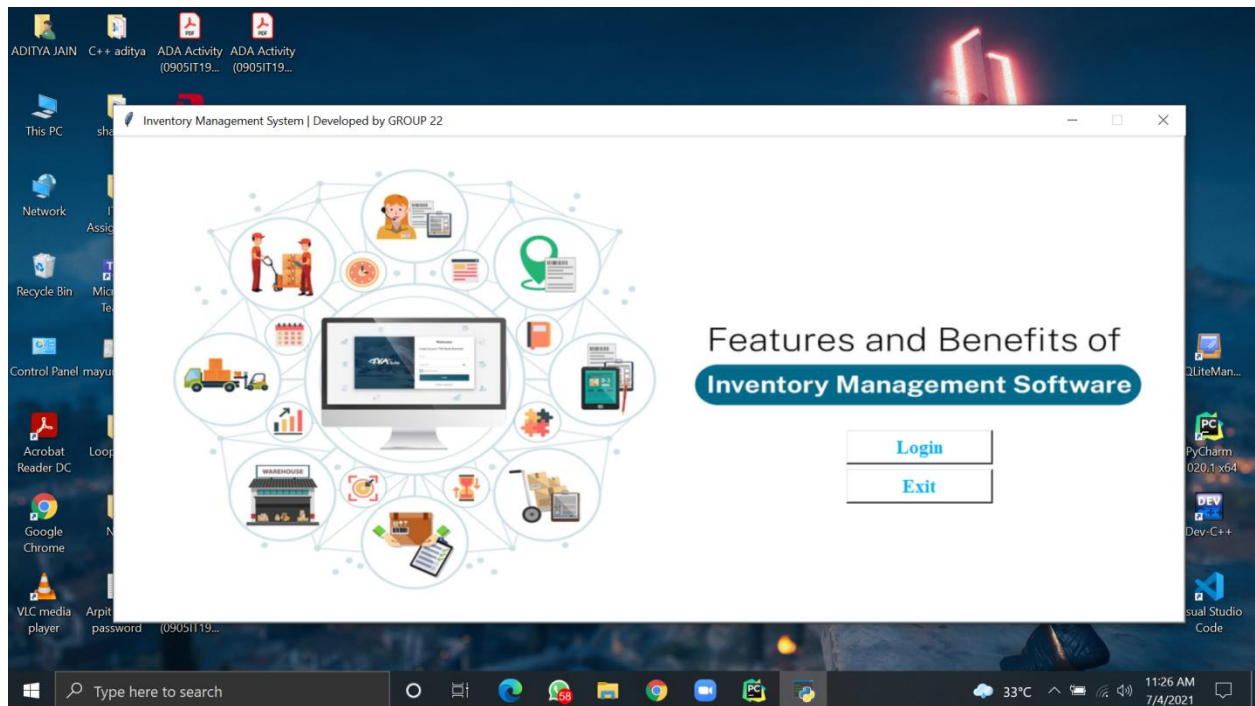
Fourth table:- Product

It stores the data about various products like category ,supplier ,name ,price ,quantity , status.

SCREENSHOTS OF DATABASE

[illegible]

PROJECT SCREEN SHOT



Welcome to Inventory Management System Logout

Inventory management system DATE:04-07-2021 TIME:11:26:54



Total Employee
[5]

Total category
[5]

Total Product
[4]

Total Sales
[1]

Total Supplier
[2]

MENU

- Employee
- Category
- Product
- Sales
- Supplier
- Exit


IMS | FOR TECHNICAL HELP CONTACT:*****1234

Type here to search

33°C 11:26 AM 7/4/2021

Welcome to Inventory Management System Logout

Date:DD-MM-YYYY Time:HH-MM-SS



MENU

- Employee
- Category
- Product
- Sales
- Supplier
- Exit

Inventory Management System

Search Employee

Name Search

Employee Details/Register

Emp I'D Name Contact

Email Gender D.O.B.

D.O.J. Password UserType

Address Salary

Save Update Delete Clear

Emp ID	Name	Email ID	Gender	Contact No.	DOB	DOJ	Password	UserType	Address
100	Aditya Jain	adityajain89819@gmail.com	Male	9522810473	17/07/2001	19/06/2021	group22	Admin	qwd

IMS | FOR TECHNICAL HELP CONTACT:*****1234

Type here to search

29°C 8:24 PM 6/28/2021

Welcome to Inventory Management System Logout

Date: DD-MM-YYYY Time: HH-MM-SS

Inventory Management System

Manage Product Category

Enter Category Name

Category ID	Name
5	electronics
6	juice

IMS | FOR TECHNICAL HELP CONTACT:*****1234

Type here to search

29°C 8:25 PM 6/28/2021

Welcome to Inventory Management System Logout

Date: DD-MM-YYYY Time: HH-MM-SS

Inventory Management System

Manage_Product_Details

Category

Supplier

Name

Price

Quantity

Status

Search Product

Category

Product ID	Category	Supplier	Name	Price	Quantity
1	juice	Aditya	mango	10	1007

IMS | FOR TECHNICAL HELP CONTACT:*****1234

Type here to search

29°C 8:25 PM 6/28/2021

Welcome to Inventory Management System

Logout

Date:DD-MM-YYYY
Time:HH-MM-SS

View Coustomer bills

Invoice No.
Search
Clear

bill1 - Copy (2).txt
bill1 - Copy (3).txt
bill1 - Copy (4).txt
bill1 - Copy (5).txt
bill1 - Copy (6).txt
bill1 - Copy (7).txt
bill1 - Copy (8).txt
bill1 - Copy (9).txt
bill1 - Copy.txt
bill1.txt

Customer Billing

MENU

>> Employee
>> Category
>> Product
>> Sales
>> Supplier
>> Exit

IMS | FOR TECHNICAL HELP CONTACT:*****1234

Welcome to Inventory Management System

Logout

Date:DD-MM-YYYY
Time:HH-MM-SS

Supplier Details

Invoice No. 4 Search

Invoice No. 4
Name Aditya Jain
Contact 987329
Description Asdifu

Save Update Delete Clear

Invoice No.	Name	Contact No.	Discription
4	Aditya	987329	Asdifu

MENU

>> Employee
>> Category
>> Product
>> Sales
>> Supplier
>> Exit

IMS | FOR TECHNICAL HELP CONTACT:*****1234

Inventory management system

LOGOUT

Welcome to Inventory management systemDATE:04-07-2021TIME:11:27:35

All Products

Search Product
Product name

Show All
Search

Produc	Name	price	Quantity	Status
5	Fruti	40	89	Active
6	Poco M2	10999	99	Active
8	Mango	50	99	Active
9	Apple	25	9999900	Active

Customer_Details

Name

Contact No.

789+

456-

123*

0c=

Productid

Name

5Fruti

Total Product:[1]

Product Name

Price per Quantity

Quantity

Customer Bill

Inventory Billing
Phone No. :- 95221*****, Gwalior-474001

Customer Name: Aditya Jain
Ph No.: 1234567890
Bill No. 4194745 Date: 04/07/2021

Product Name	Qty	Price
Fruti	1	Rs.40.0

Bill Amt

Rs40.0

Discount

Rs2.0

Net Amt

Rs38.0

Bill Amt(Rs)

Discount

Net Amt(Rs)

[40.0]

[5%]

[38.0]

Note: Enter 0 quantity to remove product from the cart

Type here to search

33°C 11:27 AM 7/4/2021

TESTING

Inventory Management System

Manage_Product_Details

Category

Supplier

Name

Price

Quantity

Status

Search Product

Product ID	Category	Supplier	Name	Price	Quantity
1	laptop	vishal jain	Asus	40000	29
	laptop	Aditya Jain	Asus	40000	29
	laptop	vishal jain	Asus	40000	29
	juice	Aditya Jain	Fruti	40	29

Error

Invalid Name ID

OK

FUTURE SCOPE

- We can add printer in future.
- We can give more advance software for Inventory Management System including more facilities.
- We will host the platform on online servers to make it accessible worldwide.
- Integrate multiple load balancers to distribute the loads of the system.
- Create the master and slave database structure to reduce the overload of the database queries.
- Implement the backup mechanism for taking backup of codebase and data base on regular basis on different servers.

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