Introduction

The project Electronic Store Management System is a complete Desktop based application designed on Python using Visual Studio Software. The main aim of the project is to develop Electronic Store Inventory Management System Model software in which all the information regarding the stock of the organization will be presented. It is an Intranet based desktop application which has admin component to manage the inventory and maintenance of the inventory system.

This desktop application is based on the management of stock of an Electronic Store. The application contains general Electronic Store profile, sales details, Purchase details and the remaining stock that are presented in the Electronic Store. There is a provision of updating the inventory also. This application also provides the remaining balance of the stock as well as the details of the balance of transaction.

Each new stock is created and entitled with the named and the entry date of that stock and it can also be Update any time when required as per the transaction or the sales is returned in case. Here the login page is created in order to protect the management of the stock of organization in order to prevent it from the threads and misuse of the inventory.

We can also Manage the Employees working in the store and the billing section is allotted to the employees to generate bills.

Objectives

- The investment put in inventory is very high, especially for those businesses that deal in manufacturing, wholesale, and retail trade.

- The amount of investment might be sometimes more than the amount spent on other assets of the company.

- Almost 90% of the working capital of a business is invested in inventories. The management should do proper planning on how to purchase, handle, store, and account with Electronic Store Management.

- The main aim of an inventory management system is to keep the stock in such a way that it is neither overstock nor understock.

- The overstock condition will reduce the other production processes and understock will lead to stoppage of work.

- The objectives of inventory management are operational and financial. In operational, materials and stock should be available in sufficient amount whereas, in functional, the minimum working capital should be locked in.

limitations

- Generating simple reports for easy understanding and easy to access.

- The Project (Electronic Store Management) can have only Single admin. We can’t add another Admin when there is already Admin present in it.

- All the bills are stored in a single folder.

Scope

- Determination of economic order quantity:

Economic order quantity or economic lot size refers to that number ordered in a single purchase or number of units should be manufactured in a single run, so that the total costs — ordering or set up costs and inventory carrying costs are at the minimum. So, the determination of E.O.Q. is also within the scope of inventory control.

- Formulation of policy:

The policies of investment procurement, storage, handling, accounting, storages and stock outs, deterioration, obsolescence etc. are to be formulated under the scientific system of inventory control. What, when and how much of purchasing and fixation of minimum and maximum levels is also to be determined for a given period of time.

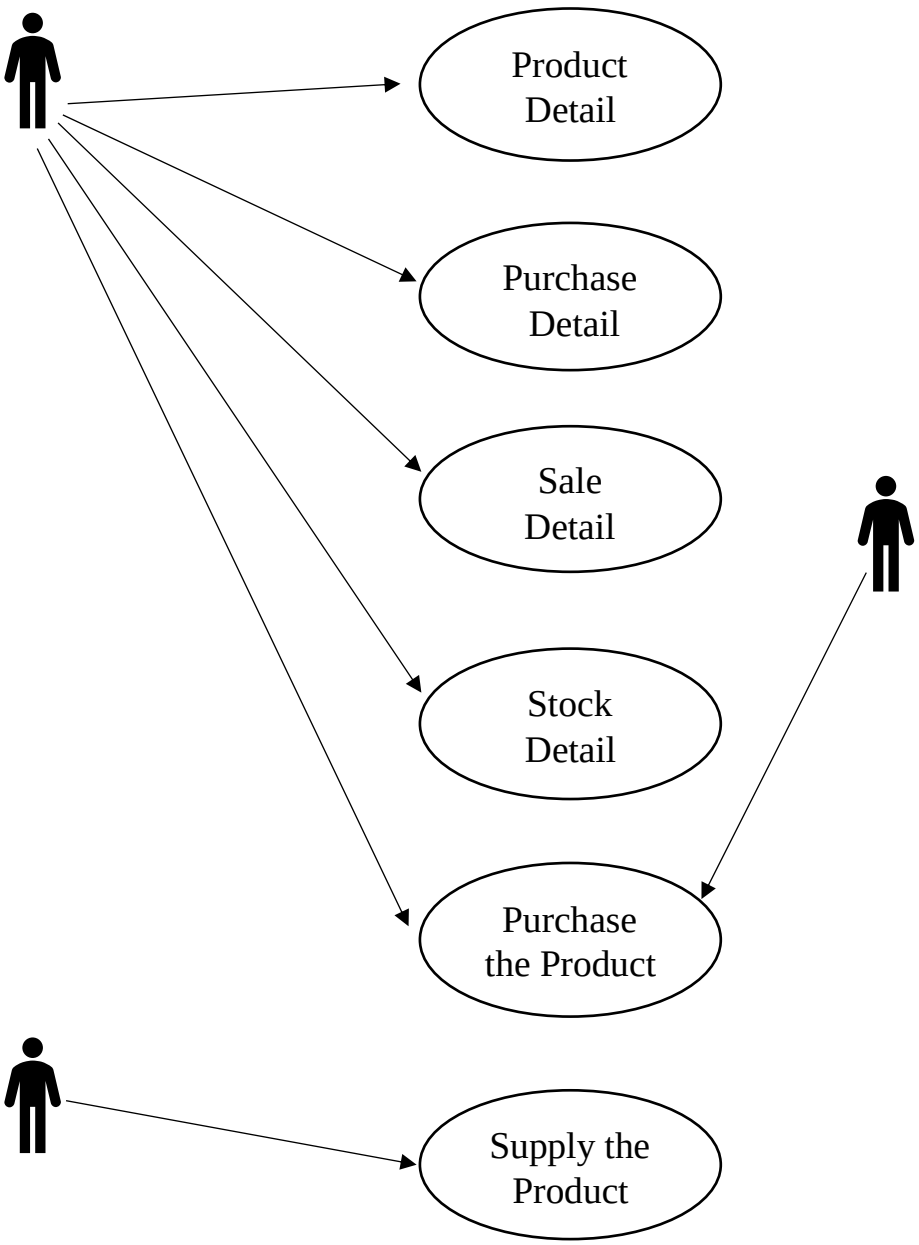
- Determination of safety stock:

Safety stock is defined as the difference between the amount stocked to satisfy demand during a certain time interval and the mean expected demand for that period. It is for the purpose of providing protection against depletion. If demand remained constant and lead tin-; is invariable, there would be no fear of shortages and no need for safely stocks.
The exact quantity of safety stock of an item depends upon its lead time, usage value, and variability of lead time demand, carrying charges and the importance of its stock out cost. Again, determination of buffer stock reserve stock is included in the management of inventory.

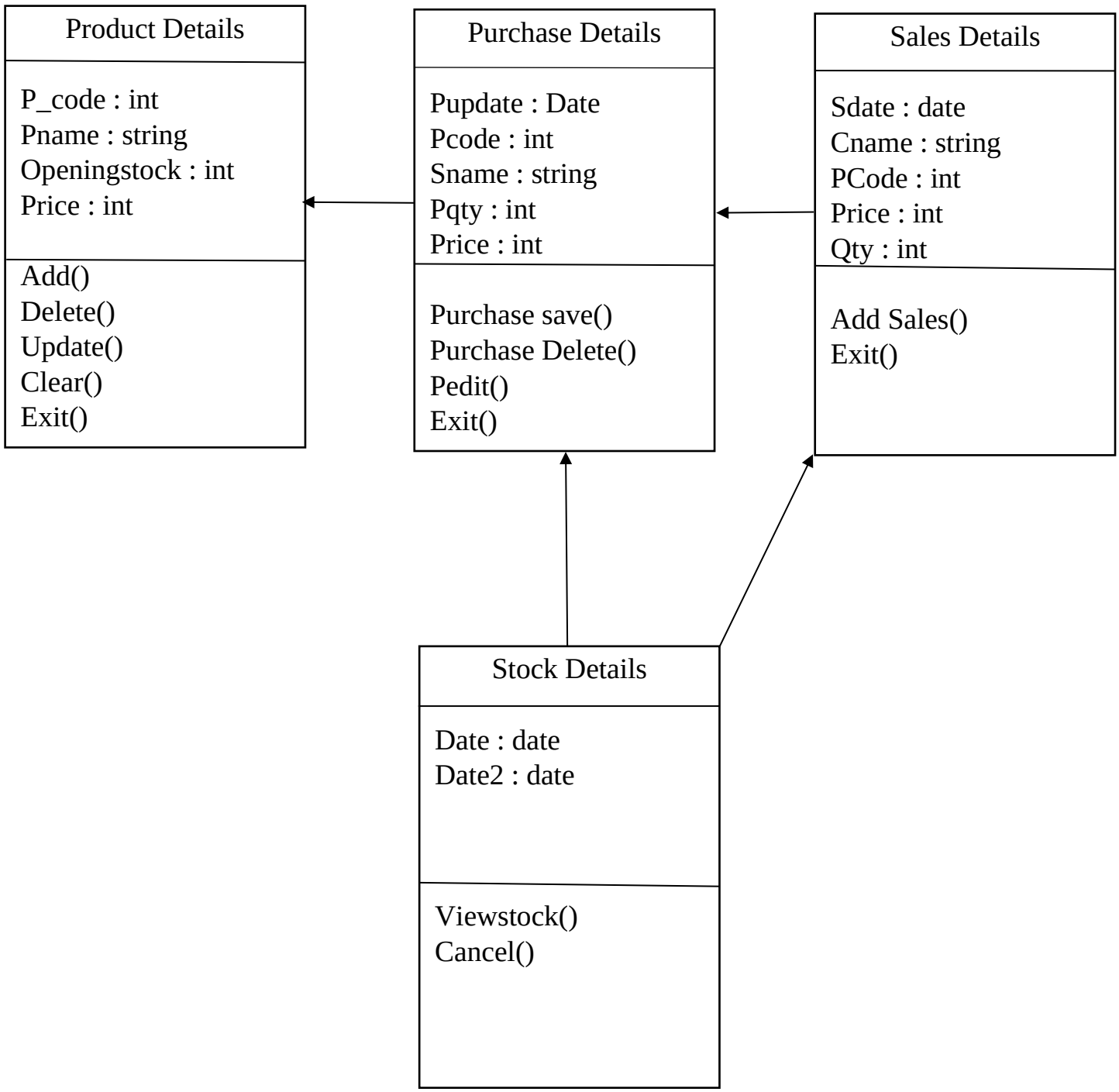
- Employee Management:

Employees can be Managed by storing there data like there salary and there Date of Joining and we can check all the sales done by a particular Employee to analyse the Employees work.

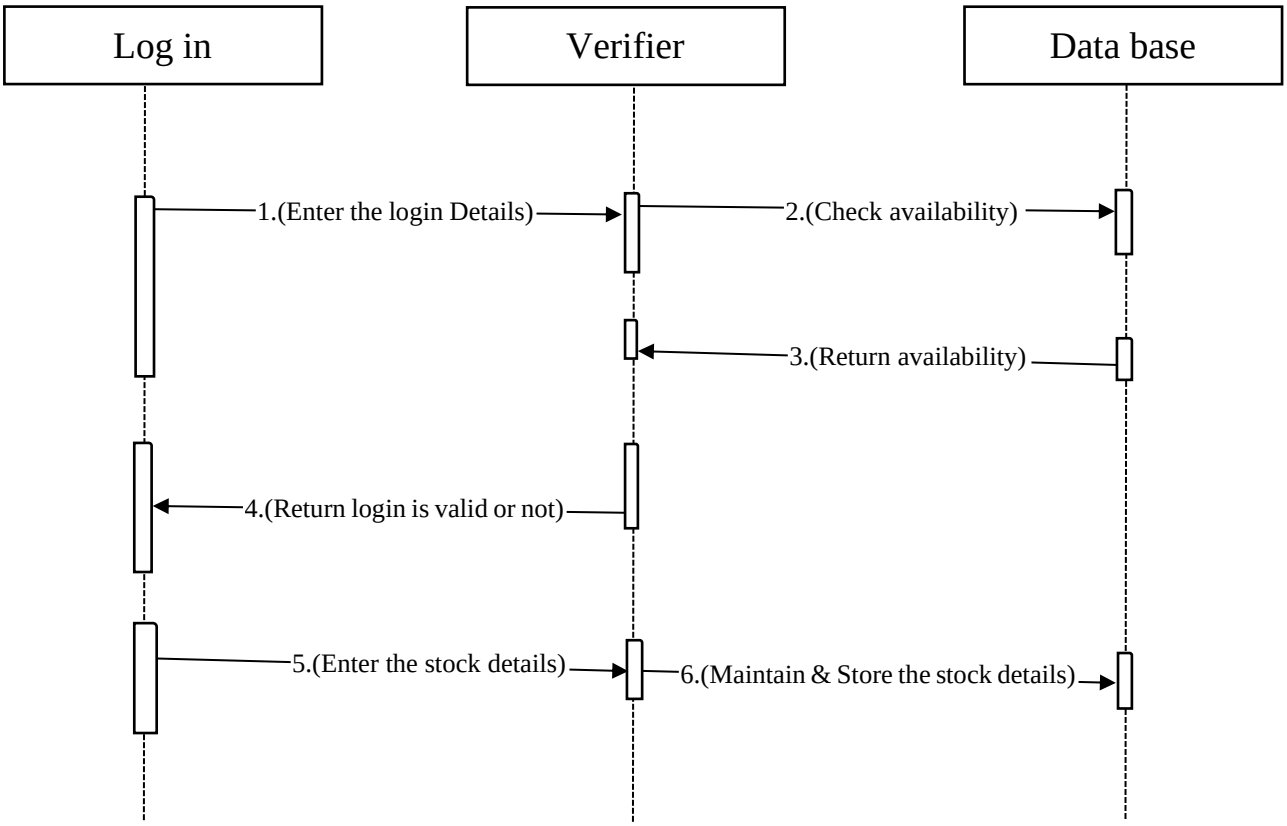
Use Case Diagram



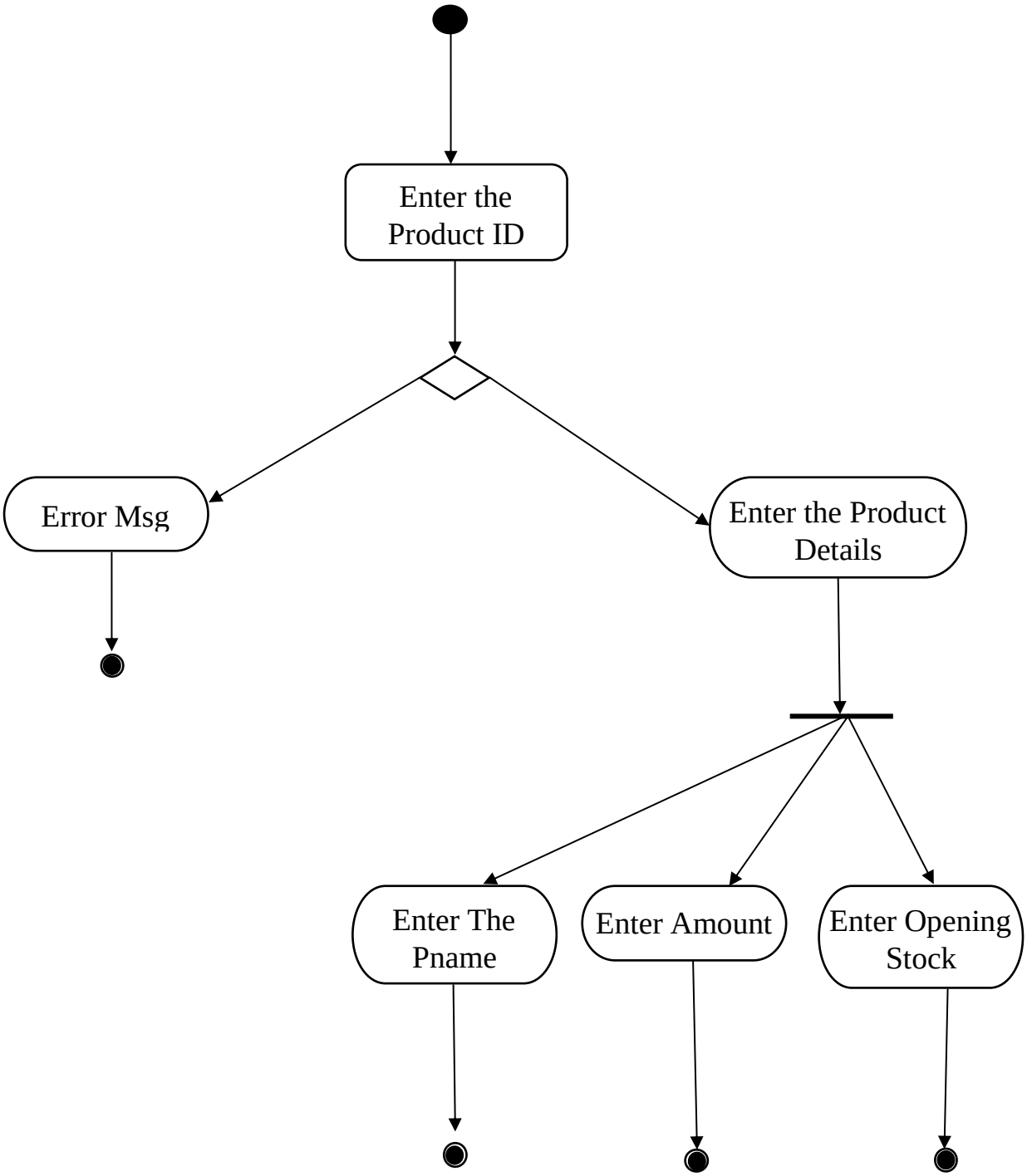
Class Diagram



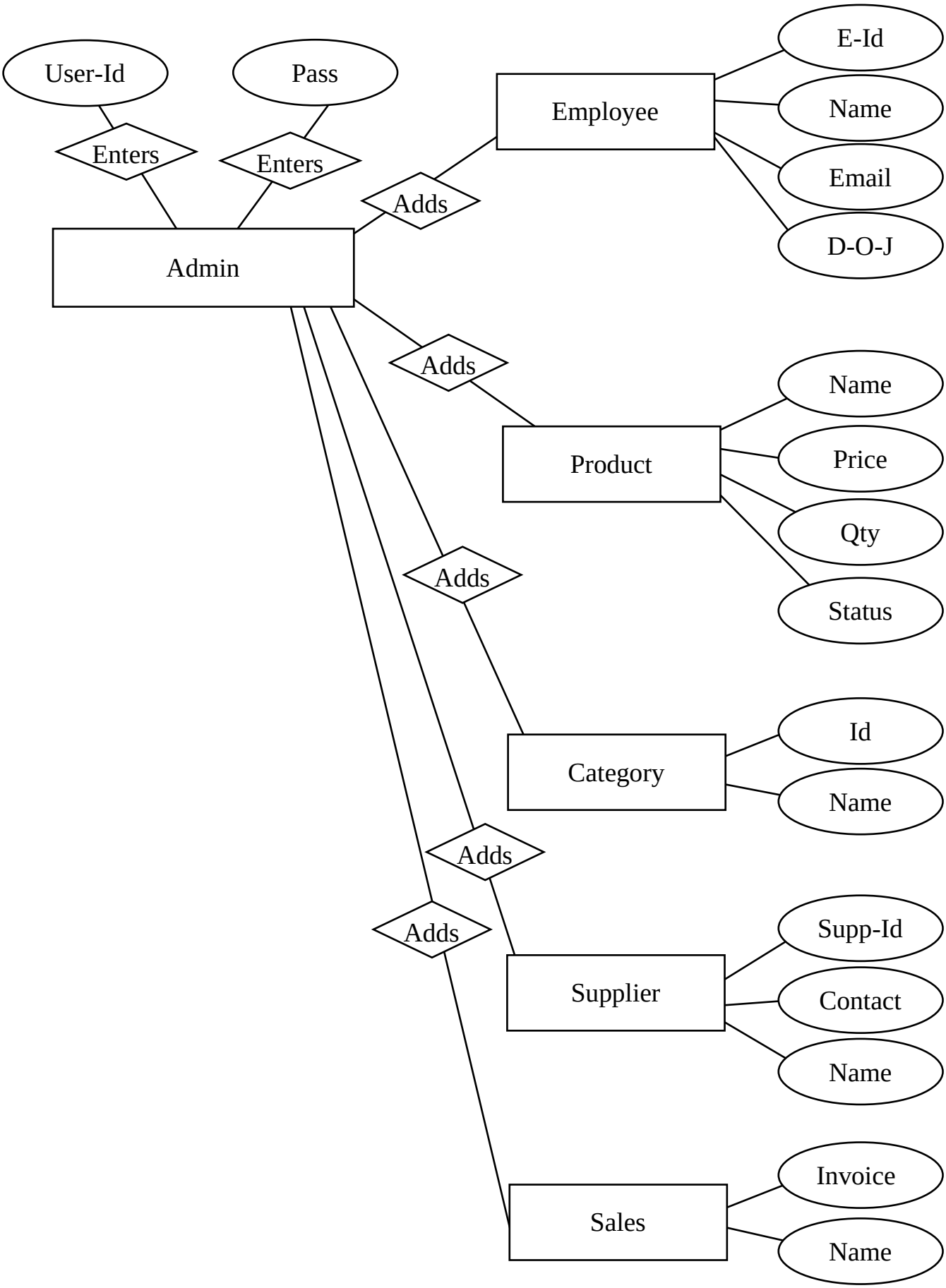
Sequence Diagram

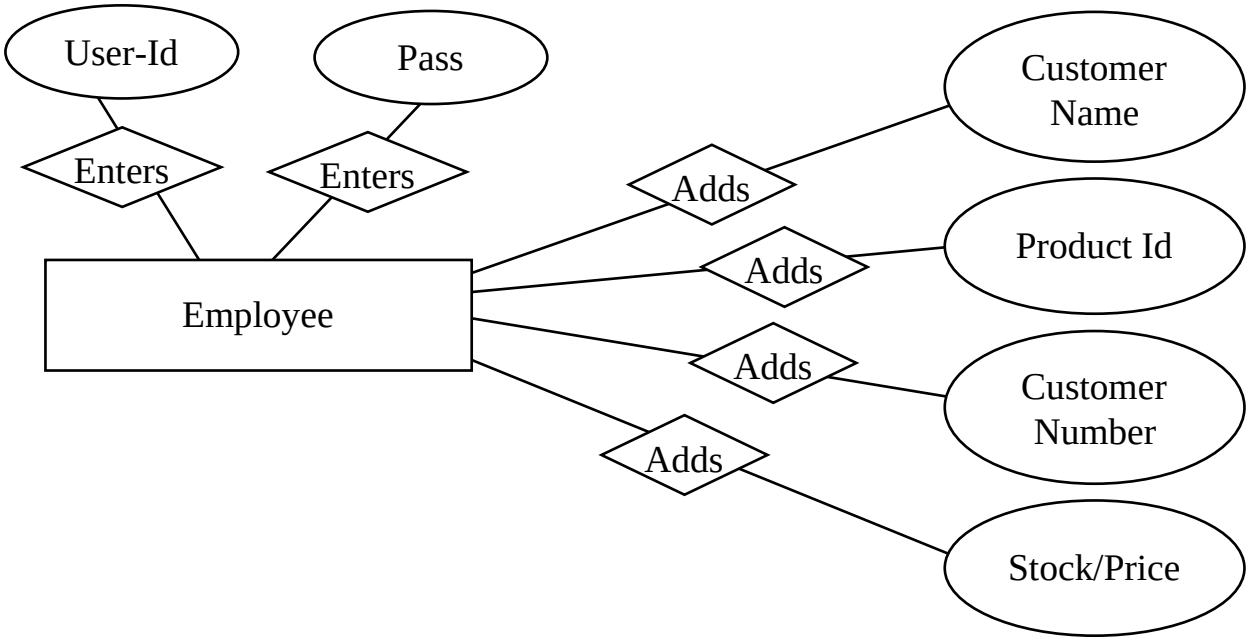


Activity Diagram



ER Diagram.


User-Id
Pass
Enters
Enters
Admin
Adds
Employee
E-Id
Name
Email
D-O-J
Adds
Product
Name
Price
Qty
Status
Adds
Category
Id
Name
Adds
Adds
Supplier
Supp-Id
Contact
Name
Sales
Invoice
Name


User-Id
Pass
Customer Name
Enters
Enters
Adds
Product Id
Adds
Employee
Adds
Customer Number
Adds
Stock/Price

Data Limitation.

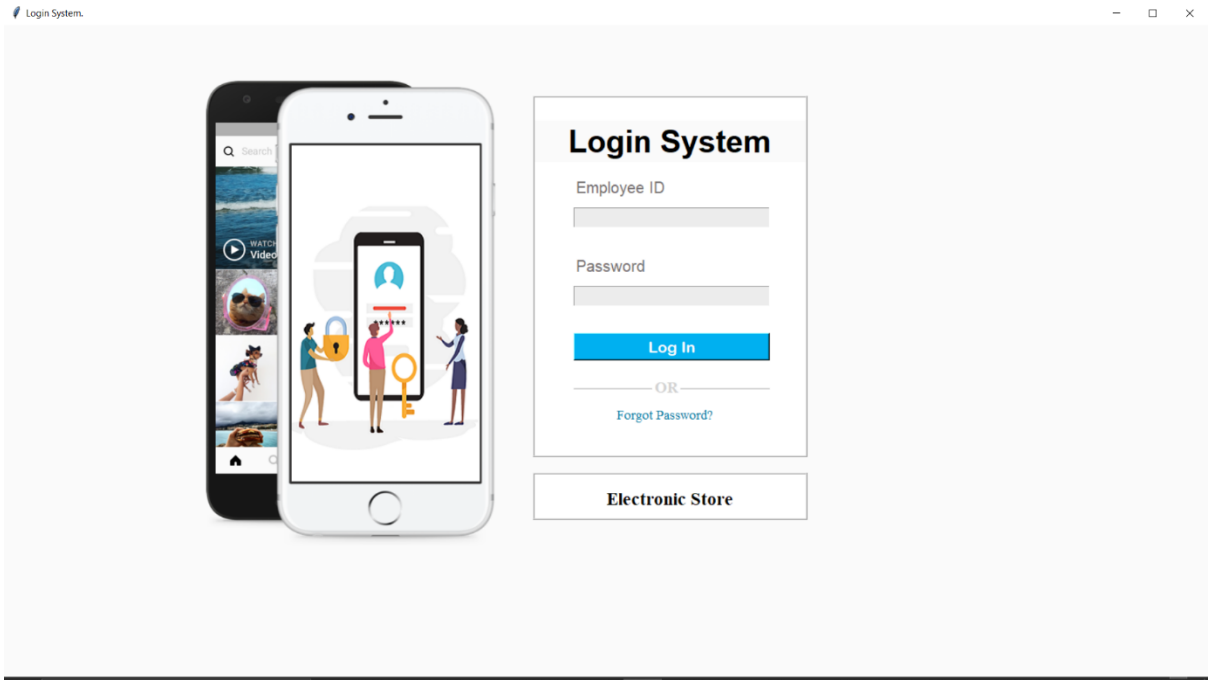
- Only one Admin Can be created in the project.
- Employee id and Product id cannot be repeated
- Only Active Stocks are shown in the billing area and the stock whose stock are been zero are removed automatically and marked as inactive in the product area.

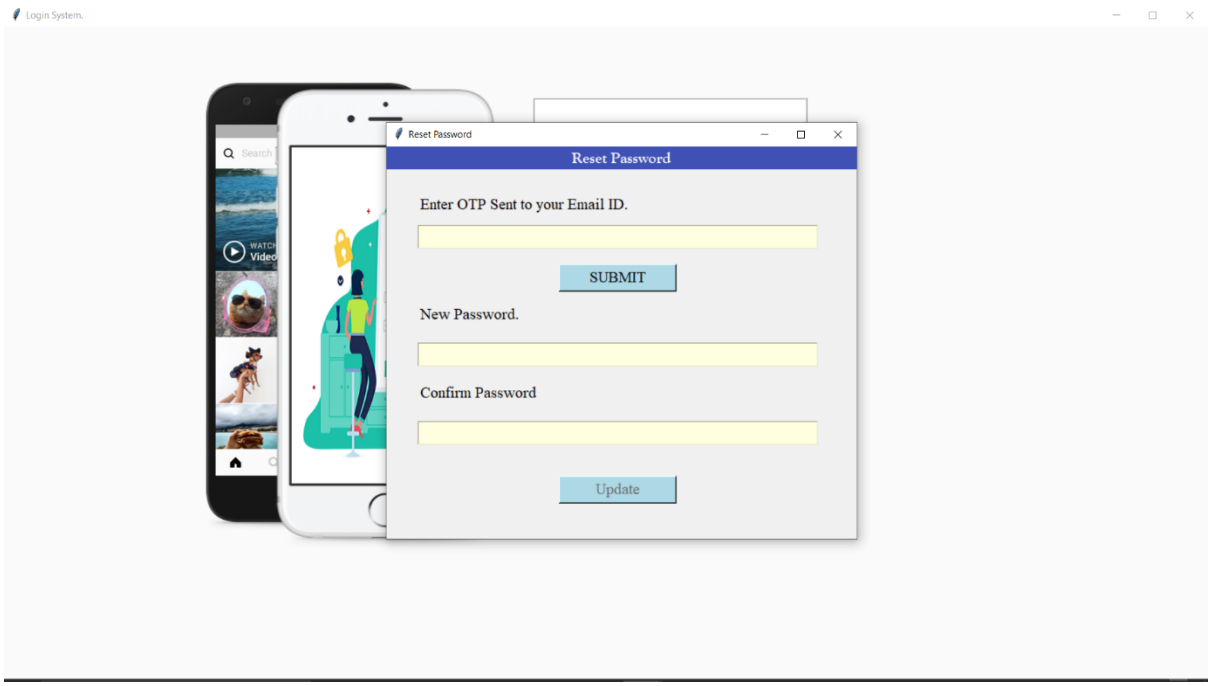
Data Validation

- User id and Password are checked while login in Admin and employee section.
- Admin Id and Employee Id are checked so that the Id don’t repeat.

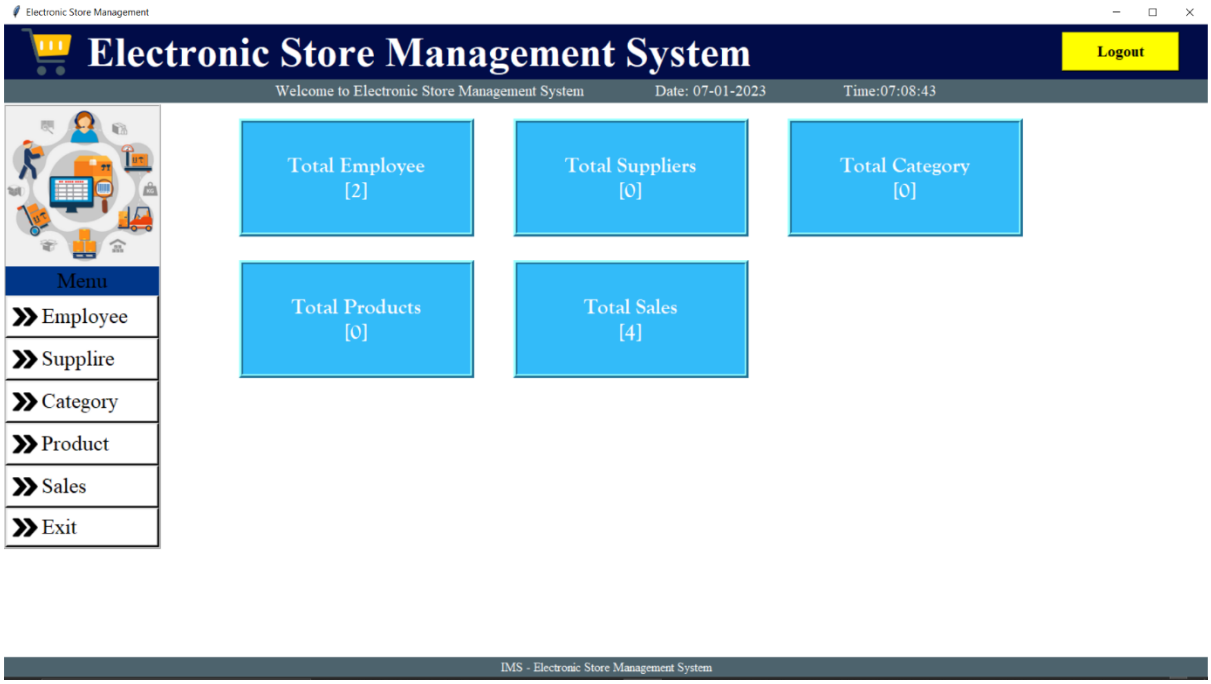
User Interface & Outputs And Reports

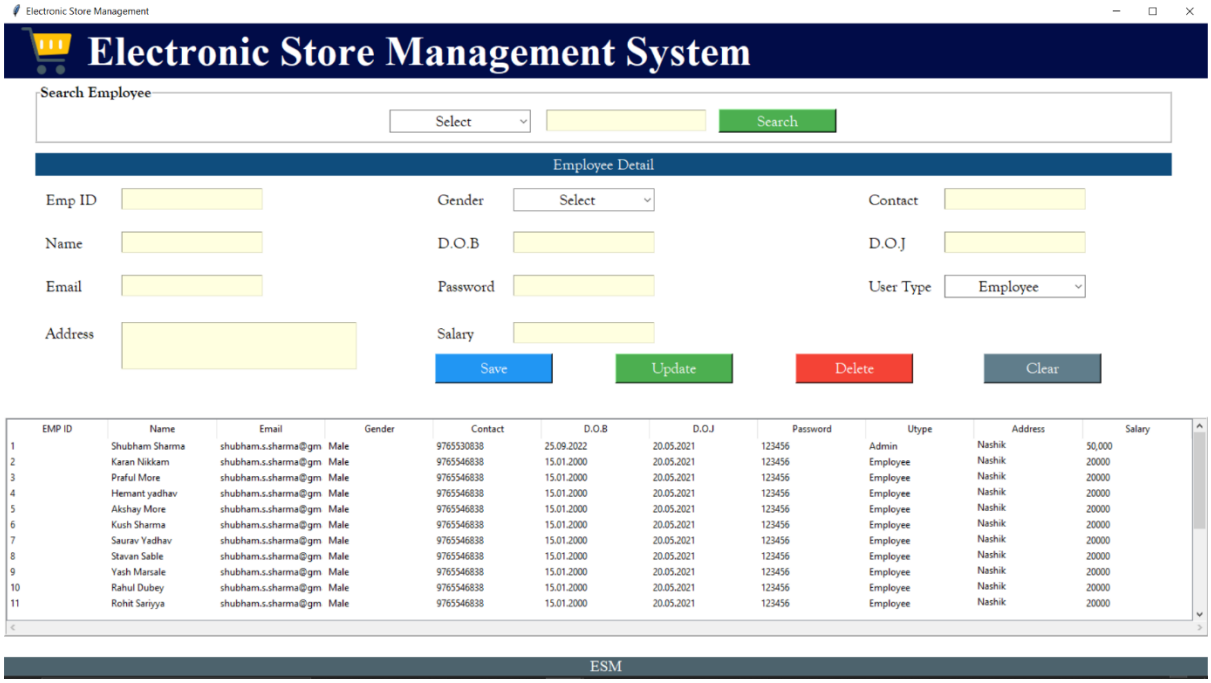
Login in page





Admin Login.


Electronic Store Management
Electronic Store Management System
Logout
Welcome to Electronic Store Management System
Date: 07-01-2023
Time:07:08:43
Menu
Employee
Supplire
Category
Product
Sales
Exit
Total Employee [2]
Total Suppliers [0]
Total Category [0]
Total Products [0]
Total Sales [4]
IMS - Electronic Store Management System


Electronic Store Management
Electronic Store Management System
Search Employee
Select
Search
Employee Detail
Emp ID
Name
Email
Address
Gender
Select
D.O.B
Password
Salary
Contact
D.O.J
User Type
Employee
Save
Update
Delete
Clear
EMP ID Name Email Gender Contact D.O.B D.O.J Password Utype Address Salary
1 Shubham Sharma shubham.s.sharma@gm Male 9765530838 25.09.2022 20.05.2021 123456 Admin Nashik 50,000
2 Karan Nikkam shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
3 Praful More shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
4 Hemant yadhav shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
5 Akshay More shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
6 Kush Sharma shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
7 Saurav Yadhav shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
8 Stavan Sable shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
9 Yash Marsale shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
10 Rahul Dubey shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
11 Rohit Sariyya shubham.s.sharma@gm Male 9765546838 15.01.2000 20.05.2021 123456 Employee Nashik 20000
ESM

Electronic Store Management

Electronic Store Management System

Search Invoice

Search by Invoice no [ ] Search

Supplier Detail

Invoice Number [ ]

Name [ ]

contact [ ]

Description [ ]

Save | Update | Delete | Clear

Invoice	Name	Contact	Description
1	Saurav Yadhav	8754303588	Mumbai
2	Yash Shelar	9875646218	Nashik
3	Khushant Kamble	8798648238	Nashik
4	Sagar Jagtap	9875655218	Nashik
5	Aditya Sonawane	70555646218	Nashik
6	Rohan Salve	9875646218	Nashik
7	Kunal Patil	9822646218	Nashik
8	Yogesh Shemge	9875646218	Nashik
9	Pranav Raut	9875646218	Nashik
10	Bhushan Suryawanshi	9875646218	Nashik
11	Sufiyan Shike	9875646218	Nashik
12	Abhikshike Bhimawat	9875646218	Nashik

ESM

Electronic Store Management

Manage Product Category

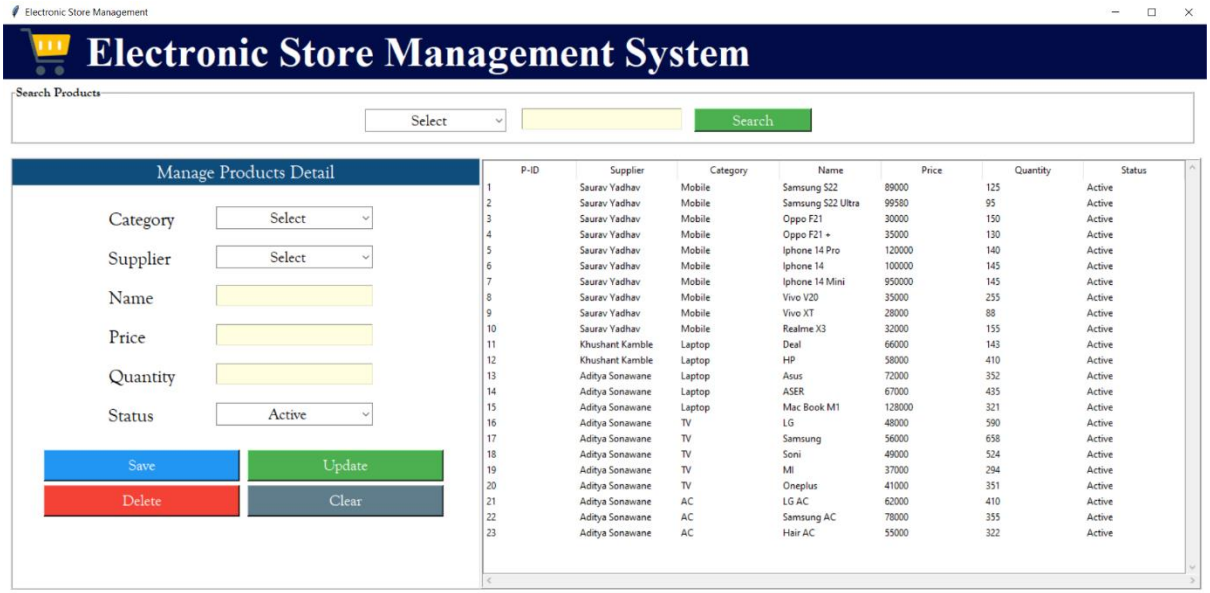
Enter Category Name:

[ ]

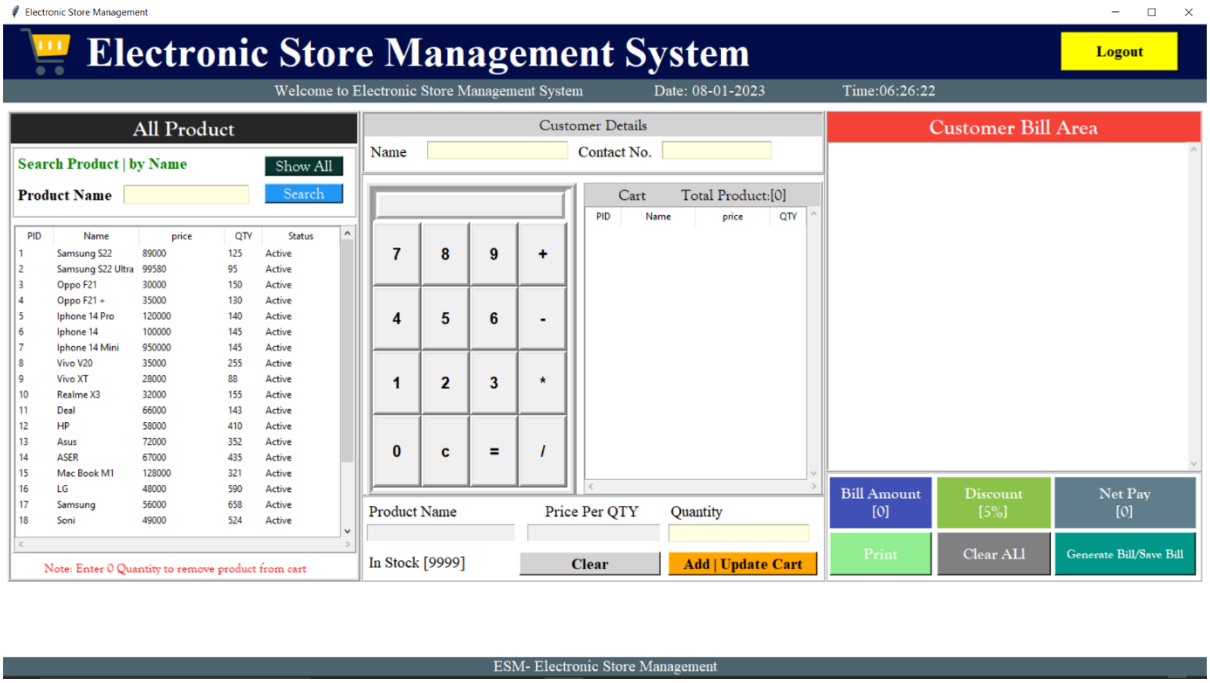
ADD | Delete

C-id	Name
1	Mobile
2	Laptop
3	TV
4	AC
5	Washing Machine
6	Fridge
7	Radio
8	Cooler
9	Hometheater
10	Speaker
11	Moniter
12	CPU
13	Mouse
14	Keyboard
15	Saregama Carva

ESM



Employee Login



Conclusion

- Almost accurate output
- Simple desktop Electronic Store Management application
- Overall production inventory and Employee Management

Future enhancement

- Delivery partner is also been attached so the product can be delivered at home and the Lost and breakage are replaced by the store free of cost
- Online payment system will be Add like UPI and Net banking and also the cart transaction will be accepted.
- The Softer will be attached with the MS Excel sheet so the data will automatically will store in MS Excel.
- System flexible in any type.

Bibliography

- Inventory Management Software.

By - Shubham Satishchandra Sharma.

Thank you.