

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:

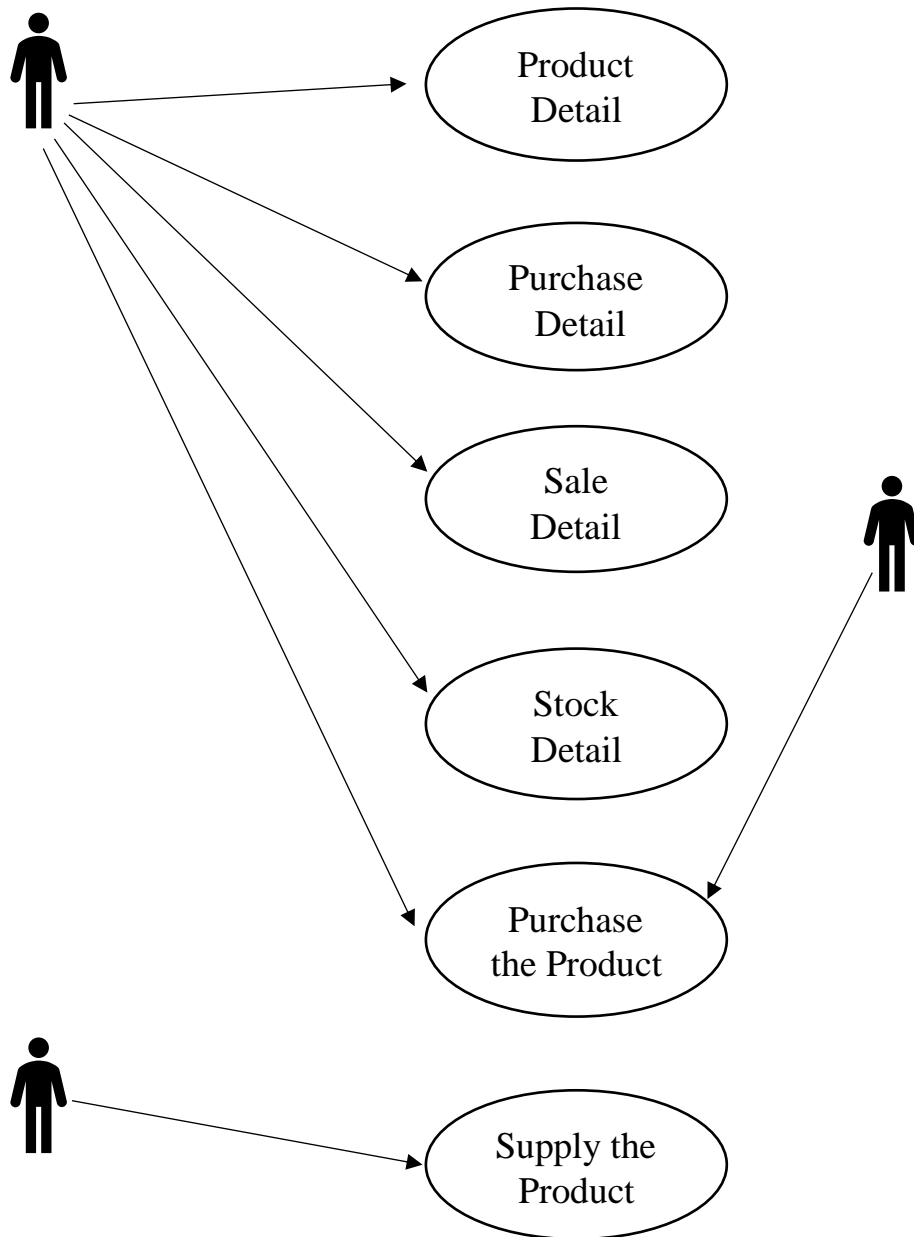
Safety stock is defined as the difference between the amount stocked to satisfy demand during a certain time interval and the mean expected demand for that period. It is for the purpose of providing protection against depletion. If demand remained constant and lead time is invariable, there would be no fear of shortages and no need for safety 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.

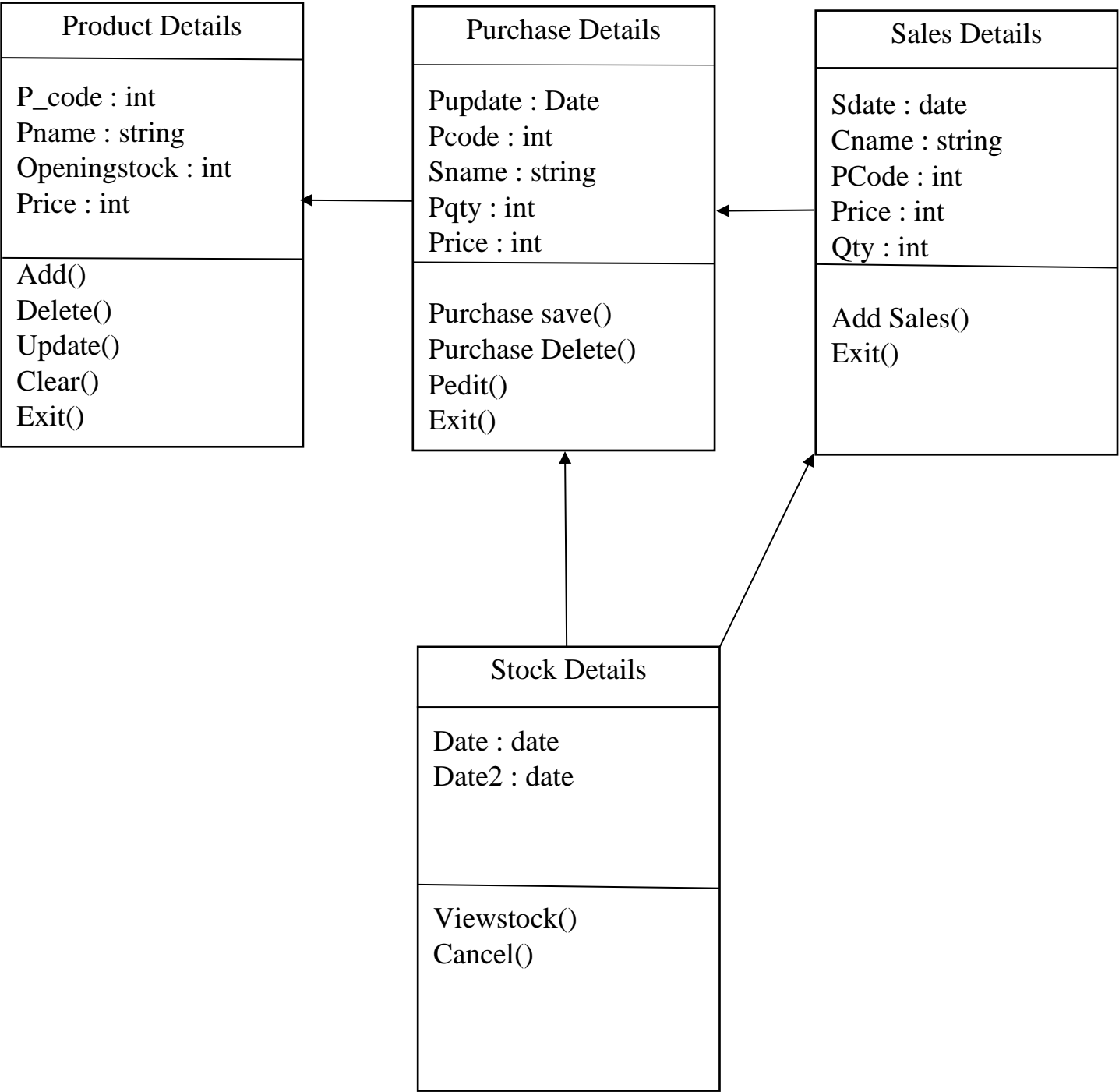
- Employee Management:

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

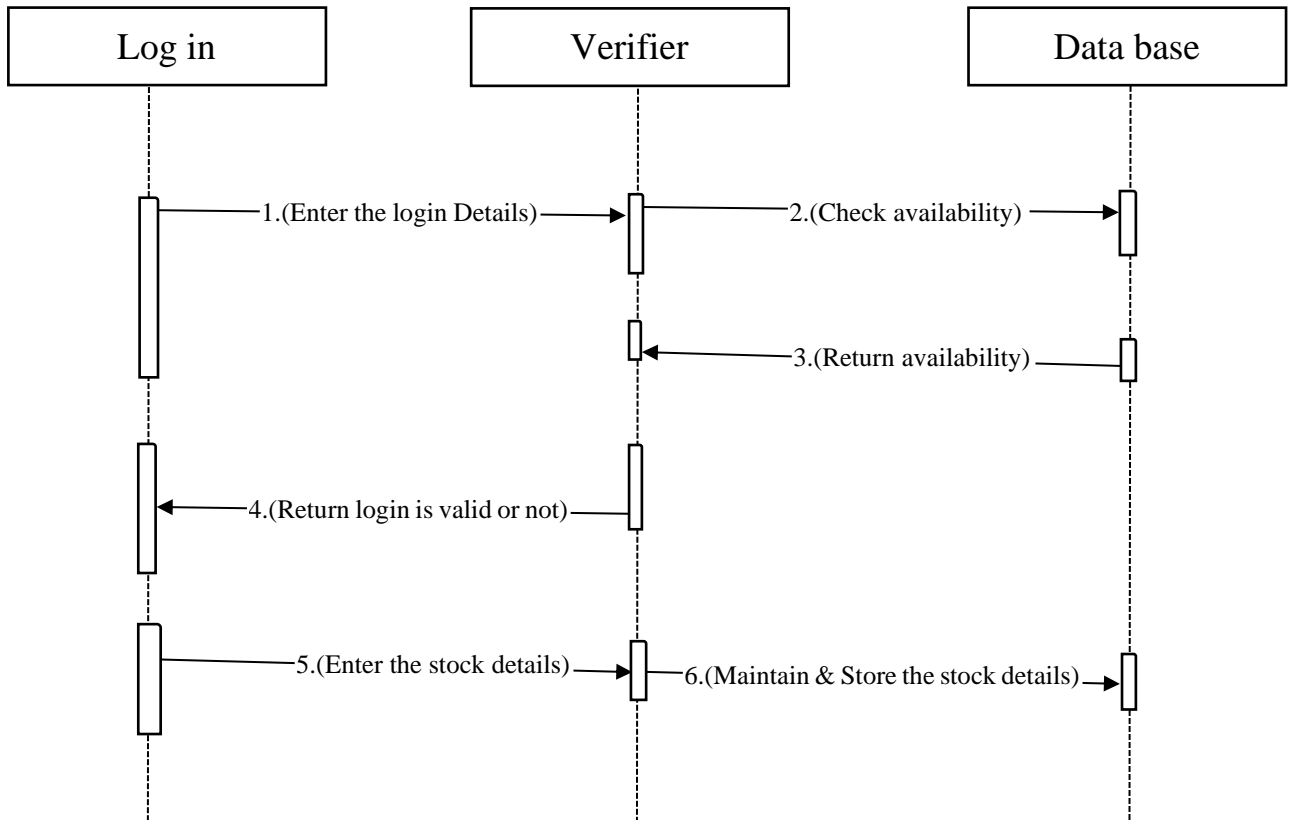
Use Case Diagram



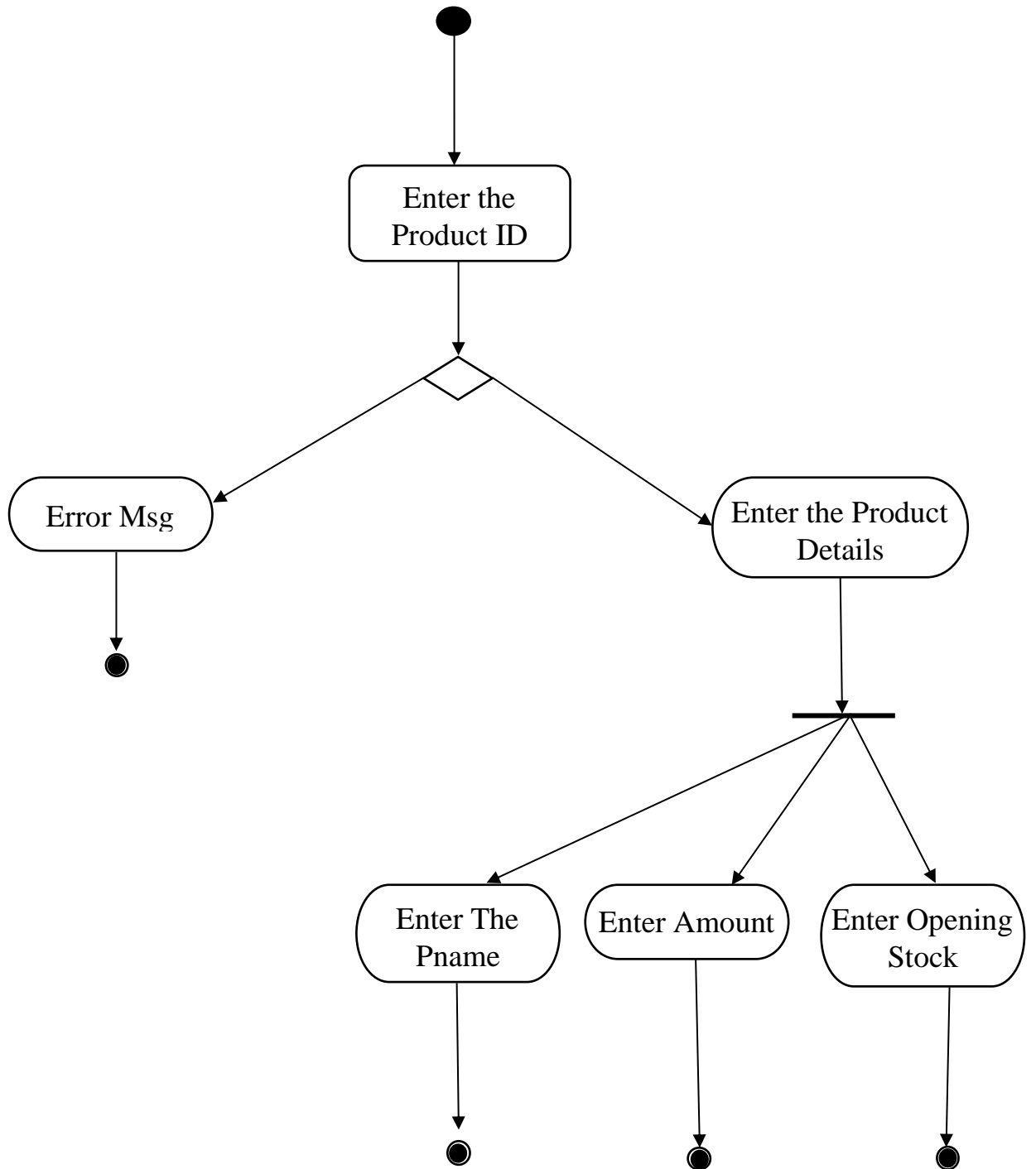
Class Diagram



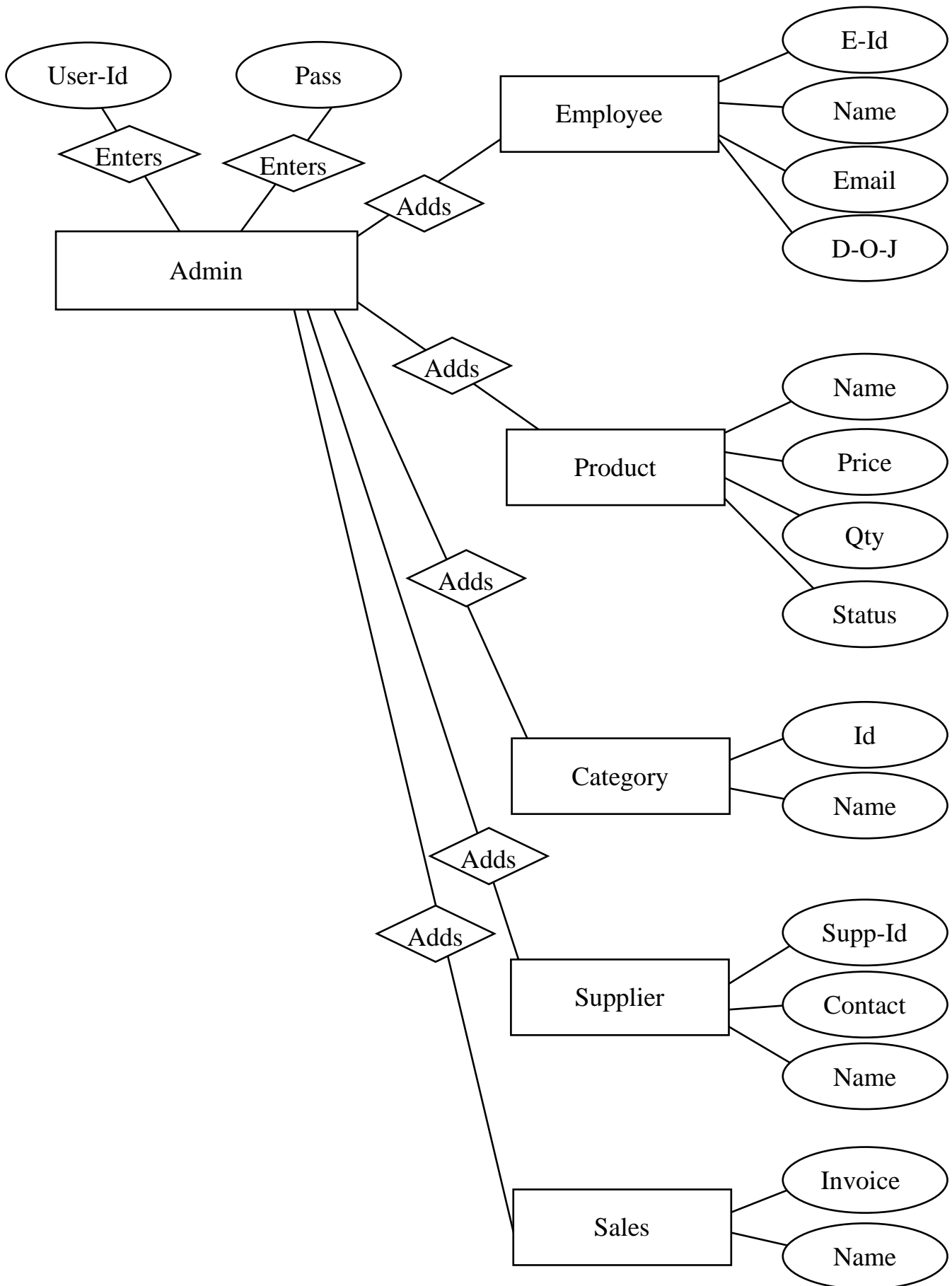
Sequence Diagram

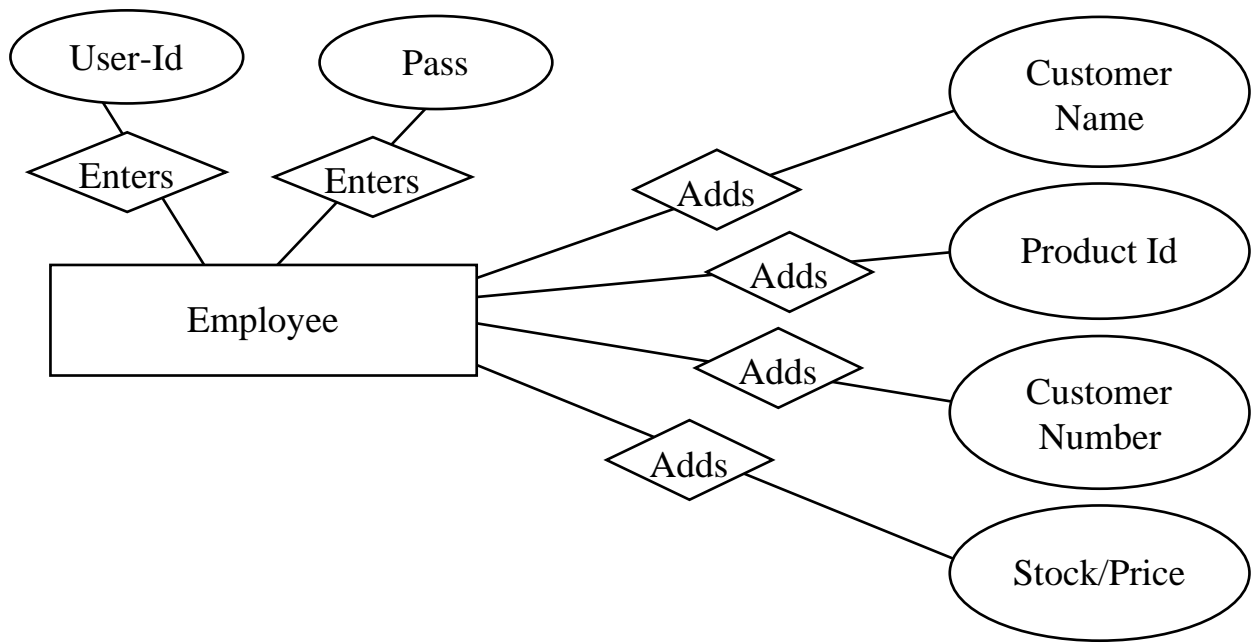


Activity Diagram



ER Diagram.





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.

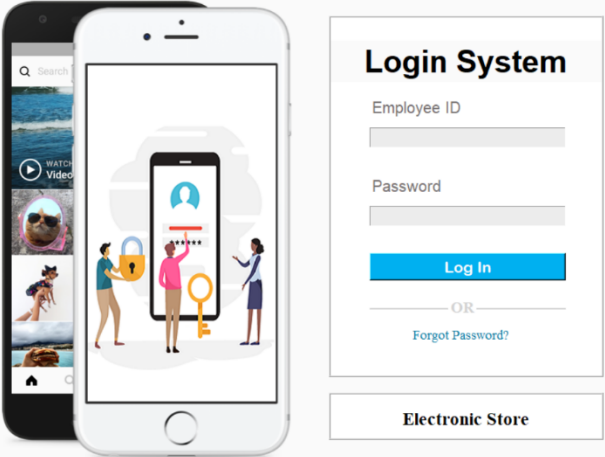
Data Validation

- 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

Login System



The login page features a header with the text "Login System" and window control icons. On the left, there are two smartphone mockups: the front one displays a login illustration with a person at a screen and a key, while the back one shows a social media-style feed. To the right is a white login form titled "Login System" with fields for "Employee ID" and "Password", a blue "Log In" button, an "OR" separator, and a "Forgot Password?" link. Below the form is a button labeled "Electronic Store".

Login System

Employee ID

Password

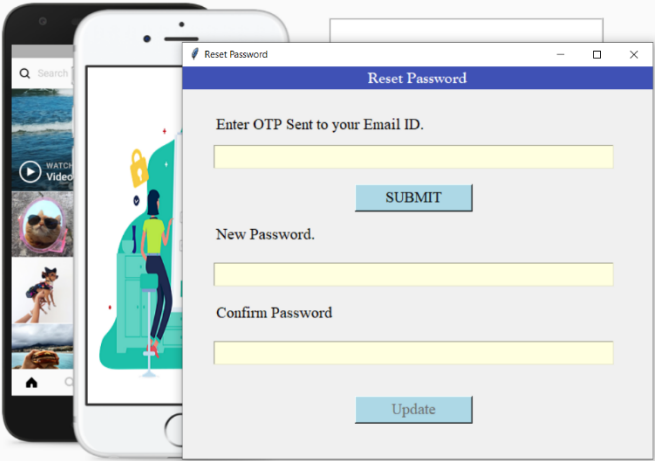
Log In

OR

[Forgot Password?](#)

Electronic Store

Login System



The reset password page features a header with the text "Login System" and window control icons. On the left, there are two smartphone mockups: the front one displays a person at a screen, and the back one shows a social media-style feed. Overlaid on the right is a "Reset Password" dialog box with a blue header. It contains a text prompt "Enter OTP Sent to your Email ID.", a yellow input field, a "SUBMIT" button, a "New Password." label, another yellow input field, a "Confirm Password" label, a third yellow input field, and an "Update" button.

Reset Password

Enter OTP Sent to your Email ID.

SUBMIT

New Password.

Confirm Password

Update

Admin Login.

Electronic Store Management

Electronic Store Management System

Logout

Welcome to Electronic Store Management SystemDate: 07-01-2023Time: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

Gender

Select

Contact

Name

D.O.B

D.O.J

Email

Password

User Type

Employee

Address

Salary

Save

Update

Delete

Clear

EMP ID	Name	Email	Gender	Contact	D.O.B	D.O.J	Password	Utype	Address	Salary
1	Shubham Shama	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	Pratul 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	Alshay 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 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	Vogesh Shernge	9875646218	Nashik	
9	Pranav Raut	9875646218	Nashik	
10	Bhushan Suryawanshi	9875646218	Nashik	
11	Sufiyan Shike	9875646218	Nashik	
12	Abhikshike Bhimawat	9875646218	Nashik	

ESM

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	Monitor
12	CPU
13	Mouse
14	Keyboard
15	Saregama Carva



ESM

Electronic Store Management System

Search Products

Select Search

Manage Products Detail

Category

Supplier

Name

Price

Quantity

Status

Save Update Delete Clear

P-ID	Supplier	Category	Name	Price	Quantity	Status
1	Saurav Yadhav	Mobile	Samsung S22	89000	125	Active
2	Saurav Yadhav	Mobile	Samsung S22 Ultra	99580	95	Active
3	Saurav Yadhav	Mobile	Oppo F21	30000	150	Active
4	Saurav Yadhav	Mobile	Oppo F21 +	35000	130	Active
5	Saurav Yadhav	Mobile	Iphone 14 Pro	120000	140	Active
6	Saurav Yadhav	Mobile	Iphone 14	100000	145	Active
7	Saurav Yadhav	Mobile	Iphone 14 Mini	950000	145	Active
8	Saurav Yadhav	Mobile	Vivo V20	35000	255	Active
9	Saurav Yadhav	Mobile	Vivo XT	28000	88	Active
10	Saurav Yadhav	Mobile	Realme X3	32000	155	Active
11	Khushant Kamble	Laptop	Deal	66000	143	Active
12	Khushant Kamble	Laptop	HP	58000	410	Active
13	Aditya Sonawane	Laptop	Asus	72000	352	Active
14	Aditya Sonawane	Laptop	ASER	67000	435	Active
15	Aditya Sonawane	Laptop	Mac Book M1	128000	321	Active
16	Aditya Sonawane	TV	LG	48000	590	Active
17	Aditya Sonawane	TV	Samsung	56000	658	Active
18	Aditya Sonawane	TV	Soni	49000	524	Active
19	Aditya Sonawane	TV	MI	37000	294	Active
20	Aditya Sonawane	TV	Oneplus	41000	351	Active
21	Aditya Sonawane	AC	LG AC	62000	410	Active
22	Aditya Sonawane	AC	Samsung AC	78000	355	Active
23	Aditya Sonawane	AC	Hair AC	55000	322	Active

ESM

Employee Login

Electronic Store Management System

Welcome to Electronic Store Management System Date: 08-01-2023 Time:06:26:22

Logout

All Product

Search Product | by Name Show All

Product Name Search

PID	Name	price	QTY	Status
1	Samsung S22	89000	125	Active
2	Samsung S22 Ultra	99580	95	Active
3	Oppo F21	30000	150	Active
4	Oppo F21 +	35000	130	Active
5	Iphone 14 Pro	120000	140	Active
6	Iphone 14	100000	145	Active
7	Iphone 14 Mini	950000	145	Active
8	Vivo V20	35000	255	Active
9	Vivo XT	28000	88	Active
10	Realme X3	32000	155	Active
11	Deal	66000	143	Active
12	HP	58000	410	Active
13	Asus	72000	352	Active
14	ASER	67000	435	Active
15	Mac Book M1	128000	321	Active
16	LG	48000	590	Active
17	Samsung	56000	658	Active
18	Soni	49000	524	Active

Note: Enter 0 Quantity to remove product from cart

Customer Details

Name Contact No.

Cart Total Product:[0]

PID	Name	price	QTY
7	8	9	+
4	5	6	-
1	2	3	*
0	c	=	/

Product Name Price Per QTY Quantity

In Stock [9999] Clear Add | Update Cart

Customer Bill Area

Bill Amount [0]	Discount [5%]	Net Pay [0]
Print	Clear All	Generate Bill/Save Bill

ESM- Electronic Store Management

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.