

SWE3002 - Software Project Management



Software Requirements Specification

Store Management System

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SCOPE, CSE

VIT-AP

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INTRODUCTION

The Main purpose of this document is to provide adequate description of the Store Management System. It will describe all the features and specifications of a store management system, along with the interfaces of the system which is intended for both the customer and the developer, as a guide through the whole development process.

Store Management System will be designed to run in a departmental store assisting the employees/retailers in managing and selling the products. The system will be designed to maximize profits by providing a quick, easy to use interface and a data warehousing facility to maintain and expand customer base.

PROBLEM STATEMENT

- Like facing some Difficulties in controlling sales and purchases in stores.
- Their will be Low productivity and production cost are inefficiently high.
- Entering Information to manual would be Slow vending processes.
- Due to the increased number of customers, the vending process would be slow due to the need to record every sale in a book.
- Old process as Books are being used for records have become outdated system.
- These produce redundancy, since the sales records would be repeatedly recorded in a book. As such books have no backing up of data and easily updatable
- The stock is difficult to track even if breakages occur they might not be noticed and this causes pilferages or theft.
- Evaluating the sales per week or per month is difficult, thus low productivity and cost a lot of time to process the accounting information given that it is needed.
- Tracking the sales of the day would be not so esay with the absence of a computer based management. Even the purchases of new orders would take hours recording and pricing.

OBJECTIVES

THE MANAGEMENT SYSTEM SHOULD BE ABLE TO:

1. Billing the new items ordered.
2. Tracking the items.
3. Bill the customer's orders.
4. Display the recorded total sales.
5. Track the records

SYSTEM SCOPE

The project has these following capabilities:

- Searching, displaying details, adding, and editing the stock records stored in the database
- Showing the price of ordered items, and accounting for the currency of the money paid and calculate the change.
- Able to Update Easily.
- Manage the cash Orders.
- Invoice bills for items.
- Items tracking.
- Bill generation.

The database can only be accessed by the administrator so it will be password protected and only the administrator can add the product information.

The system might not be a complete end-user application, But for some purposes customer is used.

PROJECT ANALYSING

This management system is used as a point of sale and record storage of all the Store's day to day operations. The administrator only is allowed to record and bill the all the purchased goods, employee details and modify the prices with the aid of a database functions. The goods are arranged in categories in the database.

When a customer wants to buy goods, the till operator enter product number and the price of the item will show up then the customer pays the amount required. If there is need for change after confirmed payment, it will be show on the system interface. The receipt will be printed for all the vending. The sales details are saved to the database per transaction.

For all the transaction which are done, the system warns if a certain level of stock is reached. The items are searched in the database in the event of availability.

SYSTEM TOOLS

Microsoft Visual studio will be the development software I will use.

The coding language will be Python,HTML,CSS , SQL.

The Microsoft Access or SQL SERVER will be used for the database.

StarUml or smart draw OR EDRAW or Visio 2007 OR HIGHER are software to use for UML diagrams.

Microsoft word will be used for documentation.

SOFTWARE AND HARDWARE REQUIREMENTS

Software Requirements:

Operating System: Windows 2000 Professional

Database: XAMPP

Programming Language: HTML, CSS, PYTHON, SQL

Hardware requirements:

SERVER SIDE:

Processor: Pentium IV

Speed: 1.7 GHz

Memory Capacity: 1 GB

Hard Disk Capacity: 80 GB

Monitor Make: acer

Client:

Processor: Pentium IV

Speed: 1.7 GHz

Memory Capacity: 256 MB

Hard Disk Capacity: 20 GB

Monitor Make: acer

Activity risks & Dis Advantages

- ❖ It is time consuming since all other business activities may be left unattended to or at halt when the whole management team will be concentrating and participating on the contribution of how the new system will be working.
- ❖ There is need for experienced personnel in order for the system to be efficient and meet the organization objectives.
- ❖ It requires all individuals to work together so that the system will be fully operational and on time both agreed by both parties.
- ❖ The systems database alone cannot contain all the records of the store so the paper work is used to some extend like purchase invoice payments.

System Requirements

Functional Requirements:

Different login pages :

Here the software should have different logins for administrator and other employees. In this manager can login as employee but employees can't login as manager.

Logging in as employee, one can perform the following functions like

- **Billing** - This software must provide facility to prepare computerized bills. If the customer has taken membershipcard then the point will be added after each purchase.

- **Stock status**- In this the employee can enquire about the current stock status (available quantity) of any product by entering its product id.
- **Sales info**- In this the latest promotional offers will be displayed to the employee so that he can inform this to customers.

logging in as manager, one can perform following functions:

- **Inventory control**- In this manager can check all the information related to each product like product id, available quantity, date of purchase, date of expiry (if applicable), etc.
- **Get the status of stock** he can order new products if necessary. He will also maintain vendor details.
- **Employee details** - Manager can check employee details like employee id, salary etc. According to employee's performance manager will give incentives to him.
- **Product details** - Manager can check products and plan accordingly

Non Functional Requirements :

- Database should be able to accommodate items details according to their sizes
- Login time should not take more than 30 sec time
- Application has to be made user friendly with proper Graphical Interface
- The Application should be able to work 24/7
- Software quality attributes as assumed to be Accurate and fully updated, Fast, Platform Independent and Easy for Maintainability

TIME PLAN

GANTT CHART OF THE STORE MANAGEMENT SYSTEM

Here the schedule includes estimated values of time, and the numbers are the order in which each activity is to be finished:

ID	Name	Nov, 2022				Dec, 2022				J.
		08 Nov	13 Nov	20 Nov	27 Nov	04 Dec	11 Dec	18 Dec	25 Dec	0...
1	Proposal									
2	Planning									
3	Analysis									
4	Design									
5	Implementation									
6	Maintainance									

FEASIBILITY STUDY

- **TECHNICAL FEASIBILITY**

The resources required to work with the system are already available.

The required computers should have at least 1 gigabyte of RAM, more than 1.6 gigahertz processor speed, and more than 10 gigabyte free memory.

it is feasible technically for the system to be operated on the platform yet to be acquired available.

- **ECONOMIC FEASIBILITY**

The projected benefits will outweigh the costs of maintenance and support since the system will enable the full potential of the retail.

The estimated cost after reducing paperwork cost and Reducing Labour cost may gradually decreases as when compared to previous years.

Tangible costs would be money, and the benefits are speed, better inventory management.

Intangible benefits would be job satisfaction of employees and better marketing decisions.

Here the store management system may be much feasible economically

- **OPERATIONAL FEASIBILITY**

The system will be designed using graphical user interface for it to be user friendly as they

required it to be. All requirements would have to be satisfied and tests are to be conducted with a given operational conditions upon the willingness of the management to support the systems development.

User involvement will enable the system to be successfully operational.

The system will cause diverse changes to customer services and also Legal and ethical issues are seriously considered since the system ensures the secure of money.

Here the system will be successful and operational as soon as possible by top management.

- **ORGANISATIONAL FEASIBILITY**

Technical department are required for troubleshooting and maintenance. The management would have to rely on the system to make effective decisions.

The system will give a sense of progress in their operations. So organizational feasibility on the system is possible.

At last the feasibility study show that the system's success probability is high enough and the system will be a strategic tool for the stores.

Plan of Execution

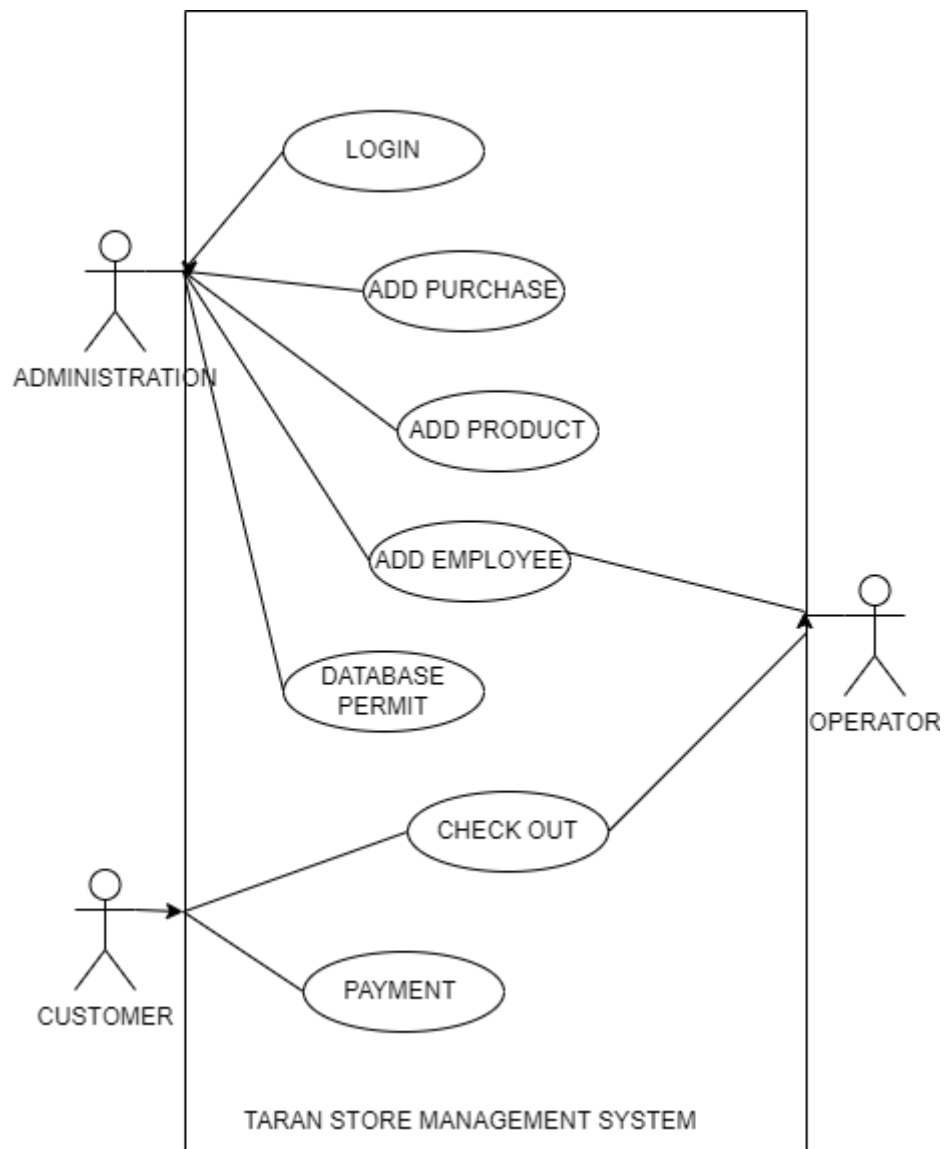
The system will:

- ✓ Save managers' time –the system analyze the data and information from sales process and presents all information through tables, charts, or graphs.
- ✓ Sales management has a better control throughout the system since the system will send out all the all the updates, order information, product knowledge.
- ✓ The system can setup to statistical representation for:
 1. The sales manager
 2. The market research results.
 3. Other departments.

In conclusion productivity, profits can be increased and as well as reducing production cost.

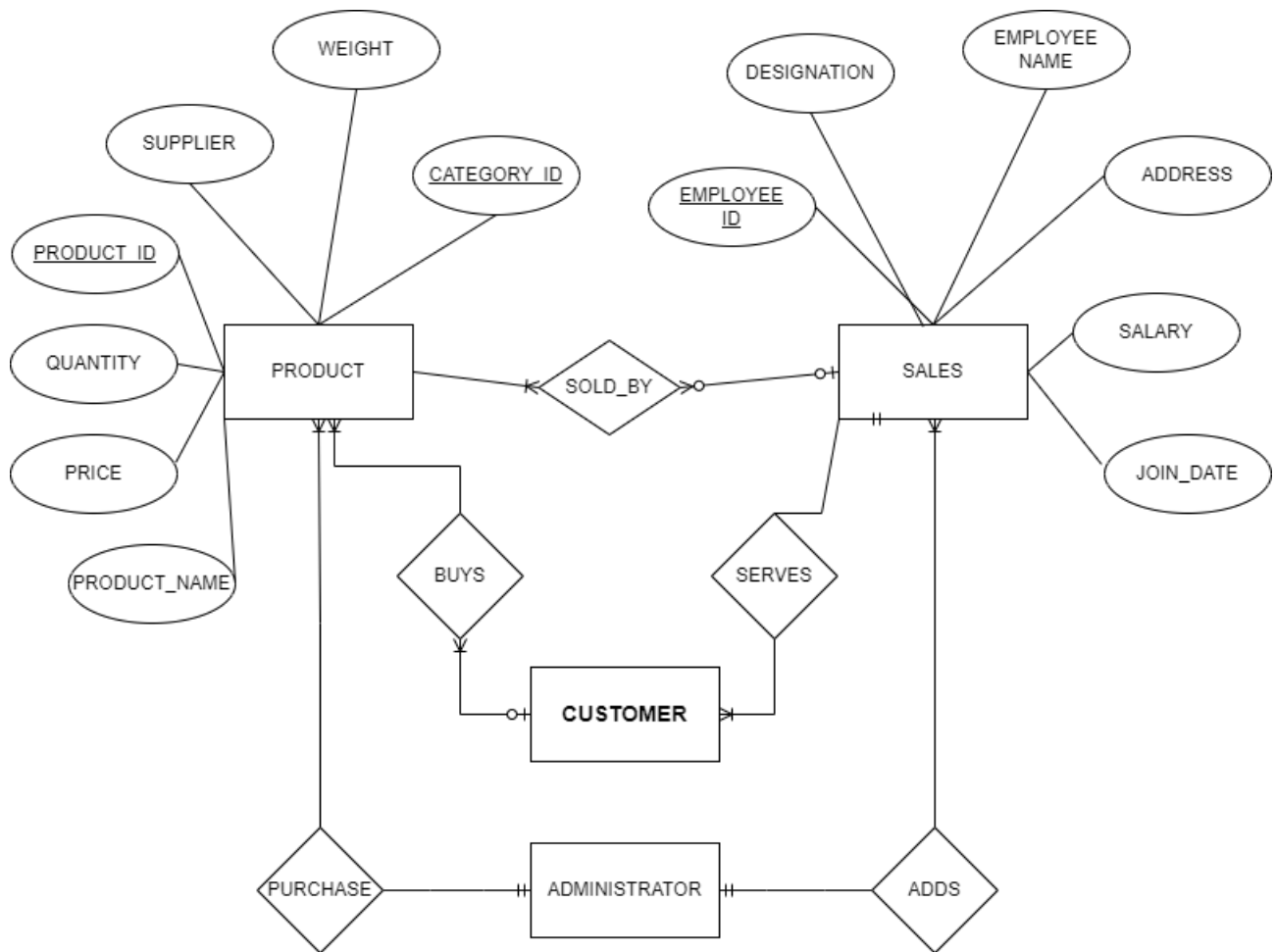
SYSTEM DESIGN

Use Case Diagram:



Entity Relationship (ER) Diagram of System:

The entity-relation diagram of the store management system is as follows:



CONCLUSION

The Store Management System is a management information system which can also be used by other retails also. This system will be an absolute solution for any retail since it covers all main system requirements any retail has.

Since one of the main goals of any retail is to make profit, the computer based system will make that happen without any complex setups like preparing books and so on. As such, the system will be of supreme importance in the Manzlee Retail day to day business since other departments can rely on it.

REFERENCES

<https://dl.acm.org/doi/10.1145/3387263.3387280>

https://www.irjmets.com/uploadedfiles/paper//issue_2_february_2022/19205/final/fin_irjmets1645521057.pdf

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4723708/>

<https://www.ijemr.net/ojs/index.php/ijemr/article/view/925>.