

# Store Account Management System

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## Abstract

The Store Account Management System (SAMS) is designed to manage sales transactions, billing, and inventory in a supermarket efficiently. The system allows the administrator to add, update, and delete product details and stock information. During billing, the user enters the purchased items and quantities, and the system automatically calculates the total amount and generates a bill for the customer. All transaction records are stored in the database for future reference. The system reduces manual paperwork, saves time, improves accuracy, and makes supermarket management easier and more efficient.

**Keywords:** Store Account Management System (SAMS), Inventory Management, Billing System, Sales Transaction, Supermarket Automation, Database Management, Stock Management, Point of Sale (POS).

## 1. INTRODUCTION

The Store Account Management (SAMS) is the time and place where a retail transaction is completed at the same time keepstrack of the products in stock. It is the point at which acustomer makes a payment to the merchant in exchange for goods or after provision of a service.

At the point of sale, the merchant would prepare an invoice for the customer (which may be a cash register printout) or otherwise calculate the amount owed by the customer and provide options for the customer to make payment. After receiving payment, the merchant will also normally issue a receipt for the transaction. Records of transaction are recorded to the inventory of the stock (goods available).

This project is based on the sales transaction and billing of items in a supermarket. The first activity is based on adding the items to the system along with the quantity which are present in the supermarket and the name of the items which the supermarket will agree to sell. This authority is given only to admin (administrator). Any modifications to be done in the item name and the quantity can be done only by admin. He also has the right to delete any item. As the customer buys the products and comes to the billing counter, the user is supposed to enter the item name he purchased and the quantity of the item he had purchased. This is not a huge a task.

This study is to produce software which manages the sales activity done in a supermarket, maintaining the stock details, maintaining the records of the sales done for a particular month/year. The users will consume less time in calculation and the sales activity will be completed within a fraction of seconds whereas manual system will make the user to write it down which is a long procedure and so paper work will be reduced and the user can spend

more time on the monitoring the supermarket. The project will be user friendly and easy to use.

The system will display all the items whose name starts with the letter selected by the user. He can select out of those displayed. Finally a separate bill will be generated for each customer. This will be saved in the database. Any periodic records can be viewed at any time. If the stock is not available, the supermarket orders and buys from a prescribed vendor. The amount will be paid by deducting the total amount acquired in the sales activity. Admin provides a unique username and password for each employee through which he can login.

### **Functions of This System**

1. This system provides list of various products
2. There are various brands of information along with the additional details.
3. There is one important function provided where the information about the staff can be maintained.
4. There is database connectivity provided where each supplier and staff detail has been stored.
5. The system Provide functions of editing supplier/staff details.
6. Its Provide functions of editing product details.
7. Its Provide functions of editing staff details.

### **System Study**

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### **Problem Defination**

Building a standard Store management system was not an easy task looking at the problems of existing manual system

The factors for these difficulties are:

**Time Consumption:** Manual systems are time consuming, as the business owner must keep track of Supermarket sales on a daily basis, while updating the system manually at the end of the day.

**Poor Communication:** A manual Store system requires employees and managers to write down each time an item is removed from the Supermarket. If one employee forgets to mention that the last coffee product has been removed from the Supermarket, a manager expects the item to still be available for a customer during a sale. Compared with a technical

Supermarket system, a manual Supermarket system does not help the communication in the workplace.

**Physical Counts:** A manual Supermarket system does not provide any number, as all numbers from the Supermarket are gained through physical Supermarket counts. One of the difficulties of running a manual Supermarket system is that physical Supermarket counts must be performed frequently to control the items in the Supermarket. This is time consuming and can cost the business money, if employees must come in to help out outside of business hours.

**Daily Purchases:** Keeping track of daily purchases is another difficult controlling measure with manual Supermarket systems. A manual Supermarket system requires the employees to write down the items sold during a single work day. This can be a difficult task, as one employee may lose the list of items sold or another may forget to write down a sale.

**Ordering Supplies:** A manual Supermarket system does not update at the end of the day with updated Supermarket.

### **Aim of Study**

To design a Computerized Store Management System to ascertain stock level of a supermarket, when to order for more goods, keep status and updates of transactions, thereby helping progress level, stock taking and managerial decisions,.

### **The objective**

1. To study the functions of Supermarket management system.
2. To explore the challenges being faced by the manual system.
3. To make a software fast in processing, with good user interface.
4. To ensure accurate statistics of product item.
5. For Easy record of goods in store and proper identification.

### **Scope of Study**

This research work covers stock control, management and tends to correct anomalies in Supermarket business. It analyses opening of new stocks, stock updates and ability to view existing ones. It provides quick way of operation by capturing the manual process and automating them. This project is helpful to computerize the item transaction, sales activity record keeping which is a very huge task and maintaining the stock.

### **Limitation of Study**

Due to time and basic factors like unstable electricity, poor networks, unavailability of concrete business idea and many more this research has been limited to certain areas in store management we only looked more into the supermarket inventory management and the Sales area using Microsoft SQL Server Management Studio and Visual c#

### **System Specifications**

### Software Specifications

This are requirements specification for a software system, is a description of the behavior of a system to be developed and may include a set of use cases that describe interactions the users will have with the software.

The software components used for this project are listed below:

- Dot Net frame work 3.5
- Operating system; Windows XP/Vista/7.
- Microsoft Visual Studio2008 (Front end)
- Microsoft SQL Server Management Studio (Back end)

### Hardware Specifications

For a system to be used efficiently and accurately, all computer software needs certain hardware components or other software resources to be present on a computer. These prerequisites are known as (computer hardware specification) and are often used as a guideline as opposed to an absolute rule.

The hardware required includes the following:

- Processor 2.4 GHZ processor speed
- Disk space 80 GB (including 20 GB for database Management system)
- SVGA colour monitor or higher quality.
- RAM 1GB and above.
- Backup storage hard disk of about 80MB.
- Flash drive for file transfer.
- An enhanced keyboard.

## 2. CONCLUSION

In conclusion, Store Account Management System has to do with making appropriate effort to stop the rising problem to all manual supermarket operation in order to enhance the operation of such supermarket. In this project, the software or system that can be used to aid all supermarkets that is still operating manually have been successfully developed. The software can be implementing in all types of supermarket. The software has a large memory of storing all the goods in the supermarket and also keeping record it is highly effective and accurate.

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