

Supermarket Management System

Supermarket Management System is a web-based application implemented in VB.NET using SQL Server 2008 as the database. This project is targeted for mainly big supermarkets and particularly aims at automation of various management procedures such as managing sales and purchases, stock details, etc. All the details and records in the supermarket are maintained in a centralized database.

The complete source code, database, project abstract, database design description, and screenshots of this project can be downloaded from the link below. You can also refer the description provided here as general abstract of this project.

About Supermarket Management System:

It is easy to manage mini markets as the customers entering such stores are less and the items in the [inventory](#) too is less. Even with few [human resource](#) deployment and paper works, small supermarkets or mini-markets can be effectively managed. But, the case is no so with big supermarkets with tens of thousands of items in various inventories and high traffic flow of customers and retailers.

Existing System:

The existing system is very paper based in small as well as medium supermarkets. Even though the paper work and manpower requirement is less, the existing system is not very economical for these markets. Relevant and irrelevant information are entered and stored in the same place, which is very clumsy and untidy process.

In case of big supermarkets, the existing system is computerized to some extent, but it is not fully automated to cover all the aspects of the supermarket. The data entry, storing, and retrieval procedure is very inefficient. Further, there are chances of data misplacement and wrong data entry. The system is still very insecure and inflexible to adapt to user requirements.

Proposed System:

The proposed supermarket management system aims at full automation of big, medium, and mini supermarkets by making the system reliable, fast, user-friendly, and informative.

It reduces paperwork, manpower requirement, and increases the productivity of the supermarket. Using this application, one can add, modify, update, save, delete, and print details. There's also a search feature to find products available in the supermarket.

Features:

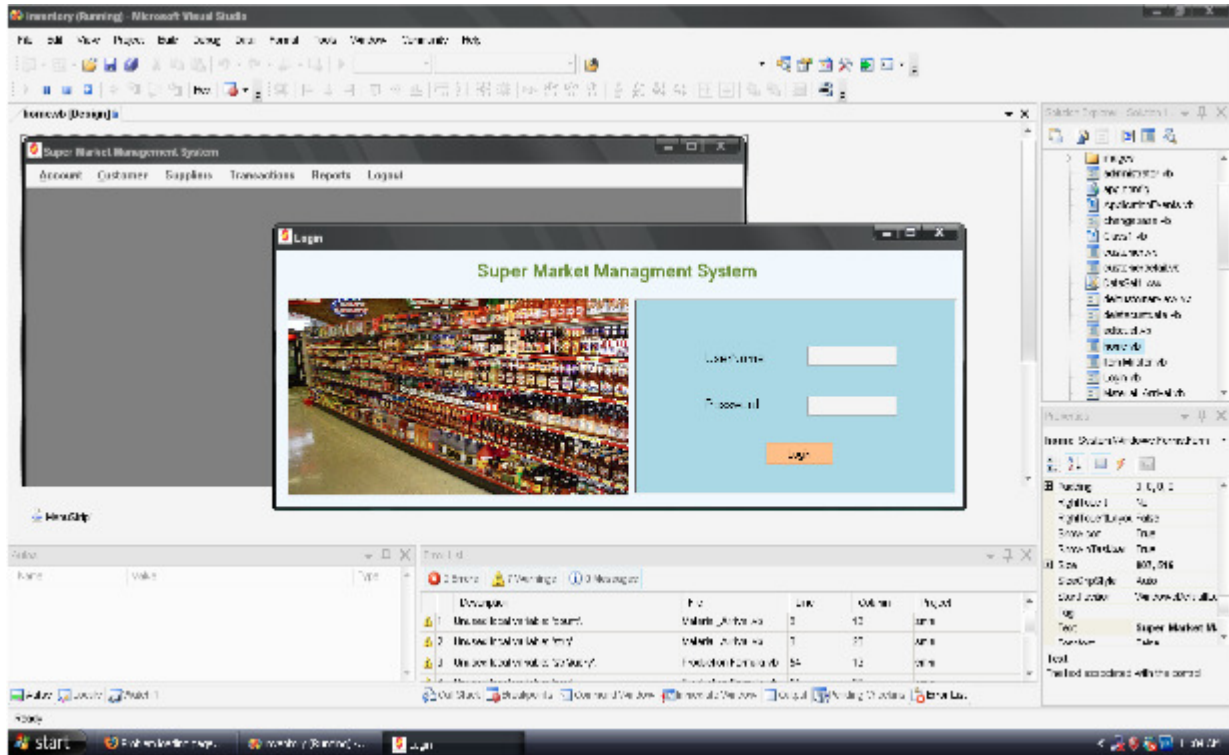
- It reduces the time and manpower required for management and maintenance of different [tasks](#).
- It reduces the paper work in existing system, hence it is economical and efficient.
- With this system, customers get quality of service; customers can even give feedback which can be stored in the database.
- As the entire system is fully computerized, records of daily and monthly purchases and sales can be recorded and analyzed.
- This system is very secure, user-friendly, and reliable.

Modules Overview:

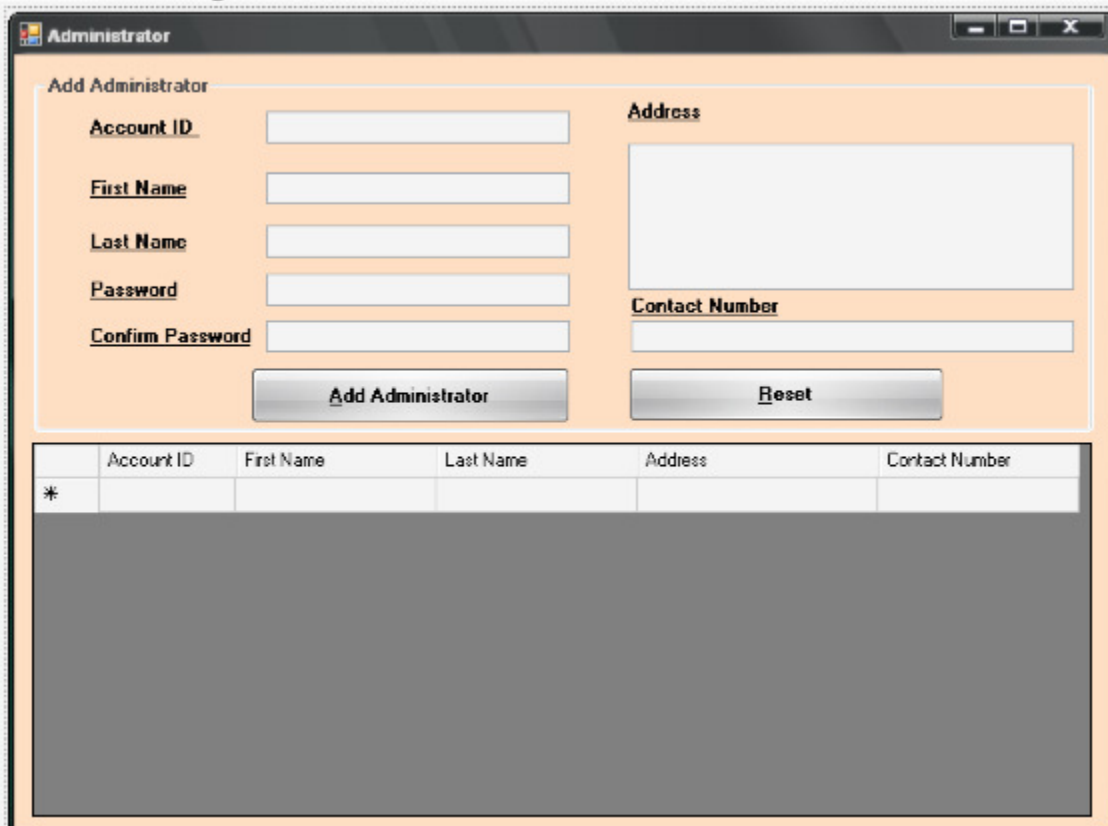
The main modules in supermarket management system are:

- **Administrative module:** This module is handled by an admin who has full control over the system. Admin is required to log in to the system with a unique user id and password. They have control over all the modules and features of the system. Admin can allocate unique user id (username and password) to the employees and staffs.
- **Employee module:** Employee can use this module with their user id. They can keep track of items in the supermarket, and are responsible for recording details of purchases and sales.
- **Purchase module:** This module stores all the purchase details of the supermarket.
- **Sales module:** This module stores all the sales details of the supermarket.
- **Billing module:** With the help of this module, all the payment details based on purchases and sales can be shown.

Project Screenshots:



Log in Page



Admin

Material Arrival

Purchase Header

Arrival Number Bill Date 04/15/2010

Bill no Supplier

Purchase Order No Receipt Value

Arrival Date 04/16/2010 Status

| | Item_Name | Quantity | UOM | Rate | Arrival Value |
|---|-----------|----------|-----|------|---------------|
| * | | | | | |

| | Item Name | Quantity | UOM | Rate | Arrival Value |
|---|-----------|----------|-----|------|---------------|
| * | | | | | |

Submit View Clear Exit

Page
Material Arrival

Conclusion:

The proposed supermarket management system is very useful for big supermarkets as well as small ones to manage their inventories, staffs, and records of purchases and sales. New features and modules can be easily added into the system, so the project is very flexible and can adapt to the requirements of the supermarket and its users.