

# Inventory Management System

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**Abstract:** Inventory management system which is helpful for the business operators, where shopkeeper keep the records of purchase and sales. Mismanaged inventory means disappointed customers ,too much cash tied up in slower sale and warehouses .This inventory is eliminate paper work, human faults , manual delay and speed up process .This inventory management system will have the ability to track sales and available inventory, tells a shopkeeper when it's time to reorder and how much to purchase. Inventory management system is windows application developed for windows operating systems which focused in the area of inventory control and generate .The software is made up of two parts: The frontend is developed using Microsoft Visual basic 2010 and the Backend from SQL server Database 2008.

**Keywords:** Database, Inventory, public, software.

## 1. INTRODUCTION

An inventory system may be a set of hardware and software system based mostly tools that automatize the method of chase inventory. The types of inventory half-tracked with a listing system will embrace almost any form of quantitative product, as well as food, clothing, books, equipment, and the other item that buyers, retailers, or wholesalers may purchase Inventory Management is one of the basic problems for public Universities It causes a lot of paperwork, in the absence automated system. Implementing such systems will require a lot of preliminary works such as determination of the requirements, system structure and decision software requirements.Maintaining correct inventory levels affects many areas throughout the organization. In addition to rising operations within the warehouse, stock levels have an effect on getting, restocking, and sales. Additionally, in most organizations, the business department will usually check the inventory computer code to verify stock levels before ordering additional products. Having correct inventory in the least times enable this department to form smarter selections. The most vital advantage of a listing management system is to avoid wasting time and cash. Again, while not a listing management system, innumeros man-hours are wasted manually recording what things are used for every dealing, delivering these forms to the workplace, then manually getting into the data into the accounting system.

## 2. FEATURES

### A. ORDER MANAGEMENT :

Should inventory reach a particular threshold, the inventory management system is programmed to prompt managers to reorder that product. This helps corporations avoid running out of product or arrival an excessive amount of capital in inventory.

### B. ASSET TRACKING:

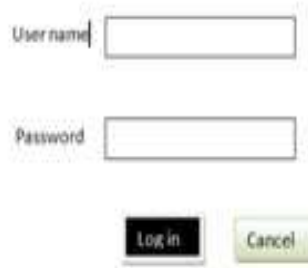
Once a product is reached to warehouse or store, it is tracked via its following criteria, like serial variety, lot/batch variety or revision range. Nowadays, inventory management software often utilizes barcode, radio-frequency identification (RFID), and/or wireless tracking technology.

### C .SERVICE MANAGEMENT:

Organizations that are primarily service-oriented rather than product-oriented can use inventory management software to track the cost of the materials they use to supply services, like improvement provides and educational materials. This way, they will attach costs to their services that replicate the entire value of performing them. Filter product variants listings to indicate only those products that area unit currently available in stock. Decrement inventory levels once orders area unit processed to replicate stock quantities. Receive notifications once inventory levels reach associate out-of-stock threshold.

## 3. INVENTORY SOFTWARE INTERFACES

To make the software secured and prevent unauthorized access a login module is built in to control users to the system



A login form with two input fields: 'Username' and 'Password'. Below the fields are two buttons: 'Log in' and 'Cancel'.

Fig 1.0 shows the login form for the software.

After gaining access to the software system, the main page of the software is displayed enabling menu items that an access privileges permits.



The main page of the software system. It features a calendar for the month of January on the left. In the center, there is a 'Select search type' dropdown menu, a search input field, and a 'search' button. Below these, there is an 'Exit search' button.

Fig 2.0 shows the most window of the inventory management software system.



A form titled 'Goods Received Voucher'. It contains several input fields: 'Department', 'Date' (pre-filled with '02/01/2019'), 'Bill no', 'Item ID', 'Contact no', and 'location'. Below these is a section titled 'Item Details' with fields for 'Description', 'Qty Received', 'Qty Type', 'Unit price', and 'Amt'. At the bottom, there are four buttons: 'Save', 'Update', 'Delete', and 'Cancel'.

Fig 3.0 Entry form for Goods Received Voucher

The form below shows the Issue voucher:

Fig 4.0 Issue Voucher Form

The form below Fig (5.0) takes records of all goods and service supply.

Fig 5.0 Supplier details form

Fig 6.0 shows the shape for reporting on Goods/services received on daily, weekly, monthly, quarterly or yearly. This applies to problems, stock as well as stock levels.

Fig 6.0 Reporting form for inventory software

**4. CONCLUSION:**

The implementation of this inventory software system in public Universities would go a long way to cut back the difficulties associated with Inventories. Some of the benefits associated with the automated system include;

**A. INVENTORY MANAGEMENT INCREASES PROFITABILITY :**

Forecasting, controlling & managing inventory increases productivity and sales, while reducing costs, resulting in greater profitability. Quick access to current & historical pricing, cross-reference product codes and a strong tool set for managing the getting activities, enables streamlined processes and improved spend management.

**B. INVENTORY MANAGEMENT IMPROVES CASH FLOW :**

Purchasing the right inventory within the right amount to satisfy the University demand, while eliminating slow-moving, obsolete inventory results in higher profits and better income. Credit management tools integrated within a listing management system helps convert assets to money quicker.

**C. INVENTORY MANAGEMENT IMPROVES DECISION-MAKING :**

Rapid, correct data collection permits access to period of time business intelligence across all areas of the University. Issue, event and project management tracking integrated with an inventory management system permits all associates to proactively to establish & solve business issues.

**D. INVENTORY MANAGEMENT INCREASES CUSTOMER SATISFACTION**

Responding to trends, seasonality, promotions & changing marketing conditions results in having the right product available. Properly identified product available to ship enables the University to order & receive the correct products quickly.

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