# AN ONLINE BASED INVENTORY MANAGEMENT SYSTEM IMPLEMENTATION IN PRINTING BUSINESS

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*Abstract:* The aim of this paper is to describe inventory management system software which is used effectively in printing business. In this system the manual activities of printing business are altered into computerized system. The system originates various essential reports automatically. It reduces paperwork, human errors as well as speeds up the whole system. The proposed system is tested at SIGNBD (a Bangladeshi printing company) and gained satisfactory result. It can run in any operating system. Incremental model is used for developing the system. The backend of the system is developed using PHP, MySQL. The front end of the system is designed & developed using html, css, javascript and jQuery**.**

*Index Terms* **- Printing, Inventory Management System, Stock, Invoice, Purchase, Sale, Online, System.**

## I. INTRODUCTION

An inventory management system refers to the combination of software and hardware tools where businessperson may keep the records of purchase & sales. It provides a central database that generates various reports and alarms for future demand according to company's requirements. Inventory management has some difficulties in printing business. The traditional system is very puzzling as well as time consuming for the vendors and the clients. It is difficult for keeping records, finding out any transaction, creating bill and generating invoice efficiently in manual system. The owner does not get any information properly without presenting in the business center physically. So, a new system will be needed to solve these difficulties. This inspires us to develop a reliable system for printing business. An online based inventory management system is widely used for maintaining all the operations like purchasing, restocking, sales and checking the stock levels before ordering more products. So this system will be helpful for the businessperson to make wise decisions for his business. He can gather any information from any place in any time about his business having only internet connected device like smartphone, tab, notebook, and laptop, desktop and so on.
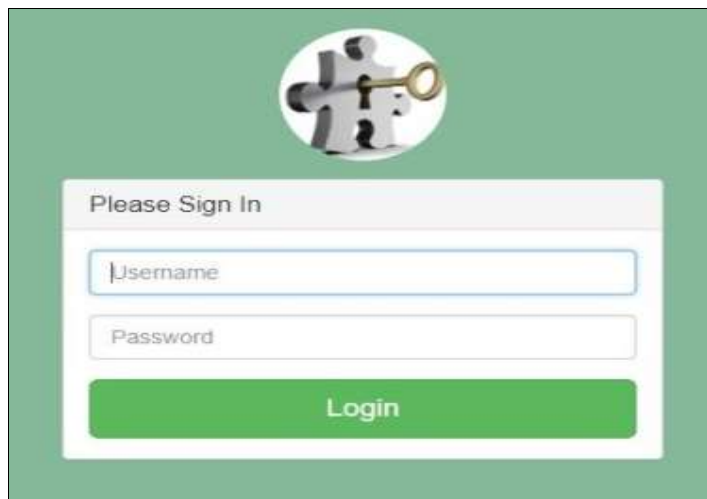
The implementation of this system can contribute a lot to simplify the activities within the company, and it can also improve the efficiency and productivity. If the system is updated in real-time, it will generate various reports automatically. This will save important time of employees and customers.

## II. FEATURES OF THE PROPOSED SYSTEM

*a) Access facility:* Since it is online based system, user can access from any place. Businessperson can see overall report at a glance. So he can be conscious about his business.

*b) Categories of product:* All the products like ink, pvc, vinyle, pena, inkjet etc are well categorized.

*c) Product purchase:* Businessperson can purchase products to maintain the stock.

*d) Total stock:* Salesperson can see the total stock according to product category. If stock is about to finish, notification will be shown.

*e) Filtering:* Filtering process is very easier to find out any product.

*f) Invoice creation:* An invoice number will be created automatically after filling up the form of selling information. This unique number will be needed for further use.

*g) Smart report:* Necessary reports will be generated automatically like provider wise report, daily purchase report, sales report (daily, weekly, date between, monthly, yearly), profit/loss, challan, defaulter list and so on.

*h) Print:* Printing icon will be used for printing out invoice, challan, bill and any other reports for the clients.
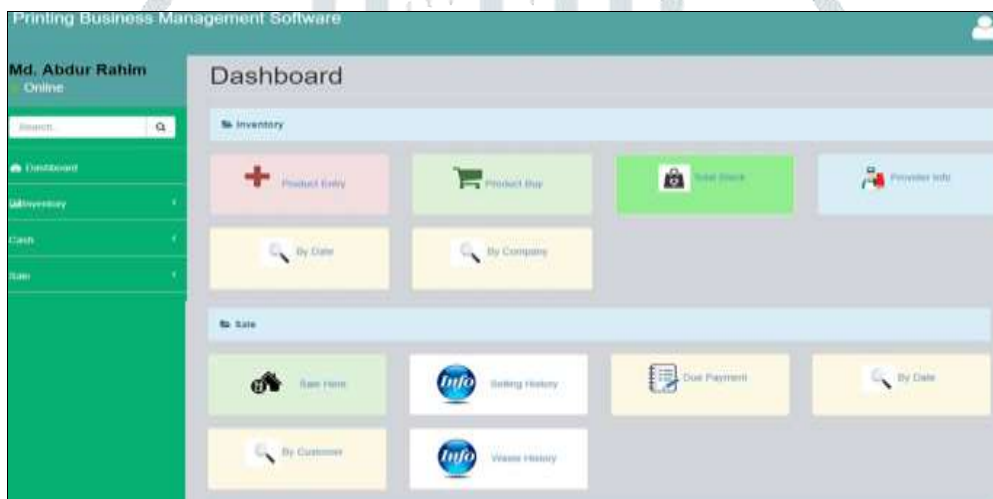
## III. INTERFACES OF THE PROPOSED SYSTEM

A login form is used to authenticate users for making the system secured from unauthorized access. Fig-1.0 shows the login form for the system.

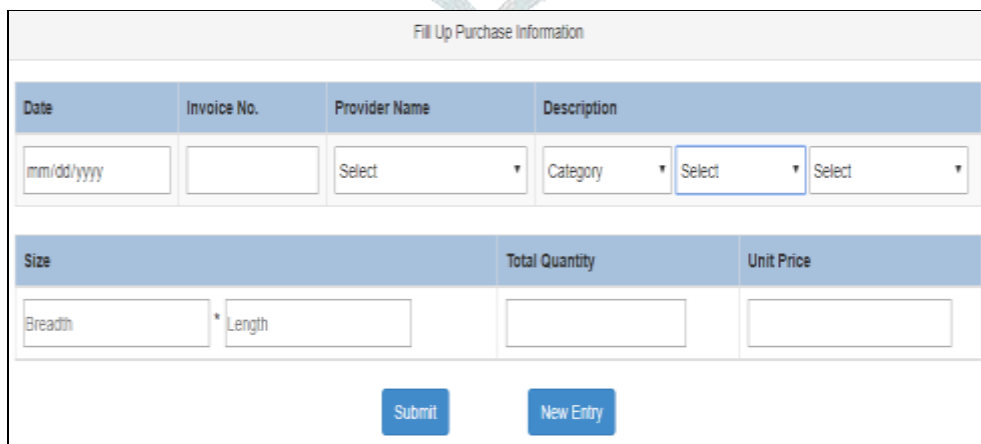Fig-1.0 login form for inventory management system

After login to the system using username and password, dashboard of the system is opened. All the menus & modules of dashboard are well organized so that anyone can access the system easily. Fig-2.0 shows the dashboard of the system.



Fig-2.0 dashboard for printing management system

The purchasing products are stored into the database using the form mentioned below. Fig-3.0 shows the entry form for purchasing products.



Fig-3.0 entry form for purchasing products

A report can be generated of individual provider about purchasing detail within fixed date. Fig-4.0 shows the purchasing information.



Fig-4.0 purchasing information according to provider

All purchasing products are viewed in total stock module. Businessperson can easily understand the present scenario of the stock. Wastage of the product is also displayed in this page. Fig-5.0 shows the Stock in details of the system.



Fig-5.0 Total Stock in details

The following entry form is used for saving the selling information into a database. If the posted data is not available in the stock, a message will be shown in pop up box. Here, every input field is verified by proper validation. So, inconsistent data is not allowed. Fig-6.0 shows the entry form for sale.



Fig-6.0 entry form for sale

An invoice will be generated automatically after completing the sale system. Fig-7.0 shows the invoice of selling products.



Fig-7.0 invoice in details

## IV. CONCLUSION

This paper represents the online based system software for printing business. It is a reliable system for inventory management. This system lessens the difficulties related to inventories. It augments productivity & sales. It also minimizes the cost and increases profitability. Invalid data is not allowed to the system. The representation of cash flow is attached effectively. There is no option to order through online for the clients in this system. So, ordering system by the clients through online will be developed in near future. This proposed system can be used in all printing business.

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