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Inventory Management Software for Windows in Python

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Abstract: FPPL-Stockpile (FPPLS) is an inventory control software designed for home windows running gadget that uses agency aid planning (ERP) as an organisation control machine that integrates and streamlines business strategies of a distribution organisation that shops merchandise in a warehouse earlier than delivery them to clients. It governs lateral transshipments to preserve the stock level above the empty line. on the quit of the method reports could be generated which can be used for agency's acknowledgment. This have a look at is executed at a production agency that has been running manually but having problems in control on lots of raw fabric and components in production shop ground and distribution, terrible management in distribution ground will motive extra or shortages of products which in a roundabout way affect business overall performance of the corporation, thus an stock management device in conjunction with bill era is proposed to be implemented in the ERP to help production department in inventory management to dispose of manual management. This module is anticipated to growth the effectiveness and performance of distributing productions in coping with inventory.

Keywords: Stockpile, lateral transshipment, agency useful resource planning (ERP), record generation.

I. Introduction

The inventory management gadget is a actual-time stock database capable of dealing with massive inventories of an corporation. this can be used to track the inventory of a unmarried store, or to manipulate the distribution of stock among several stores of a bigger franchise. however, the gadget simply facts sales and restocking data and affords notification of low inventory at any region at a precise c language. The aim is to lessen the strain of monitoring rather than to address all shop upkeep. The assignment inventory control system is a entire laptop based application designed on Python era on Tkinter framework generation using Pycharm community edition. WAMP is a home windows OS primarily based software that installs and configures Apache web server, MySQL database server, personal home page scripting language, phpMyAdmin (to manage MySQL databases), and SQLiteManager (to manipulate SQLite databases).

The principle aim of the task is to broaden stock management system version software program in which all the facts concerning the inventory of the employer can be provided. it's far an intranet based computer utility which has admin aspect to manipulate the inventory and renovation of the inventory gadget. This computer software is primarily based at the control of stock of an employer. The application contains trendy organisation profile, income information, buy information and the final stock which are supplied inside the agency, there is a provision of updating the stock also. This software additionally gives the closing stability of the stock in addition to the details of the balance of transaction. each new stock is created and entitled with the named and the entry date of that stock and it may additionally be update any time when required as in line with the transaction or the income is returned in case, right here the login web page is created to be able to defend the management of the inventory of organization so as to save you it from the threads and misuse of the inventory.

II. Existing System And Proposed System

2.1 Existing System

There were now not standards for the data entries and facts control. consequently, some issues happened during shifting the handwritten records into computer facts for numerous information were given erased or wiped out. Afterwards, the music of stock turned into stepped forward by using MS Excel which helped in keeping the database in a systematic format of rows and columns. but, it has end up previous because of the upward thrust of cloud computing and superior database control.

2.2 Proposed System

The reason of growing this windows utility is to create a user interface so one can be used to keep all the data of the inventory that goes out or comes in the warehouse and via placing new merchandise inside the stock, updating current quantity as well as auto-removal of products from the inventory as quickly as bill is generated and order is ready for the shipment. The improvement is carried out in technical languages as Python for windows utility for GUI and sql for database that is utilized by Admin. initially, admin may be given an account for registration and after that he can upload provider and purchaser details using the manage dealer and client module. After a hit registration, person can login the usage of login credentials. The application is

capable sufficient to music report of the same product entering the inventory however on one-of-a-kind time automatically due to listing with the aid of date feature. This allows the agency as most of its product fee varies on the basis of forex alternate charges. The calculate profit module presentations total earnings made by means of simply getting into the invoice identity.

III. Methodology

- The task is designed the usage of python.three language and loaded on phpMyAdmin. We used the ones each languages for Designing and coding of challenge. Created and maintained all databases into sq. Server 2008, in that we create tables, write query for keep data or file of project.
- We are using Agile Methodology.

The main aspect of system is for the following:

- 1. Setting a safety stock level Safety stock is effectively the backup stock you keep on-hand for each of your items.
- 2. Determining reorder points

 A reorder point is exactly what it says on the tin the exact point at which ordering new stock needs to happen.

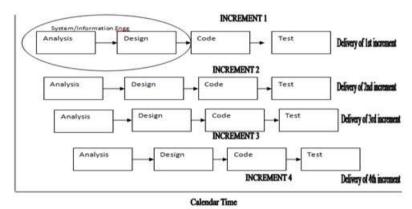


Fig 1. Agile methodology

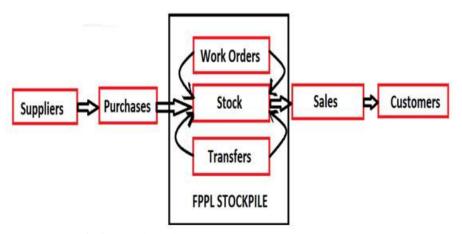


Fig 2. Working of Basic Inventory Management System

Agile practice development is getting used, to fulfill the ever converting commercial enterprise wishes for the product, product must be made iteratively all the even as additionally presenting an efficient and nice output. additionally scaling up the development technique because the product reaches its final touch phase.

IV. Results And Screenshots

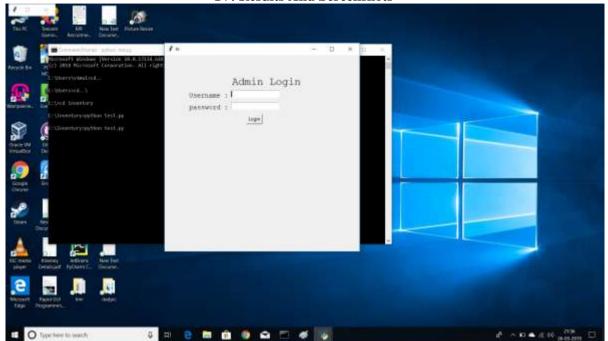


Fig. Admin Login Page

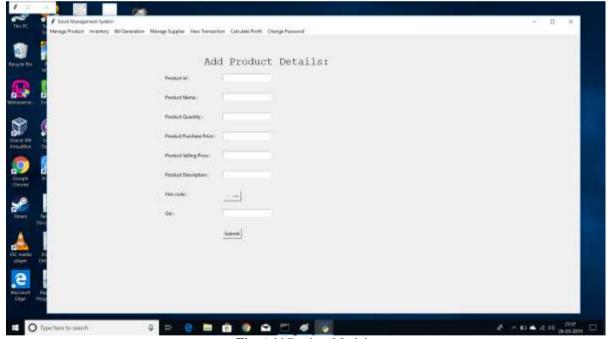


Fig. Add Product Module

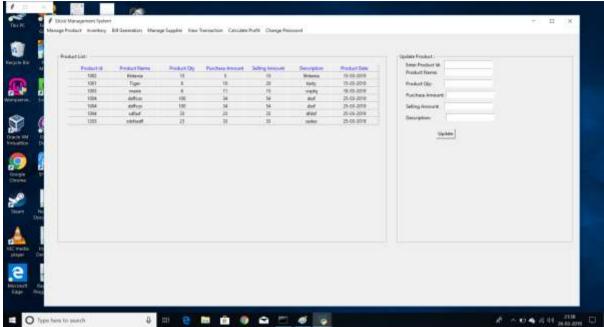


Fig. Inventory Module

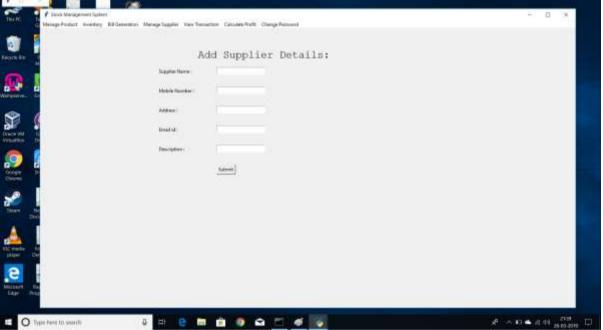


Fig. Add Supplier Module

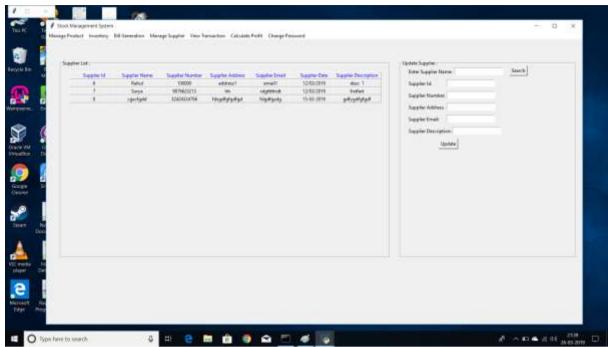


Fig. Manage Supplier Module

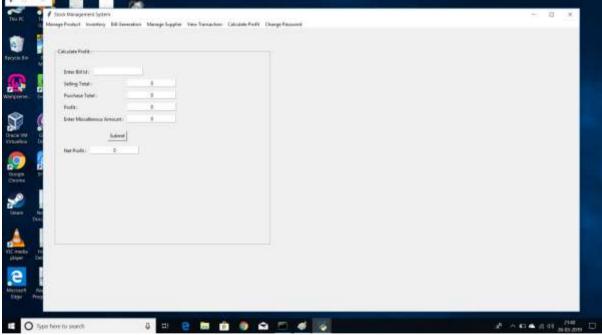


Fig. Calculate Profit Module



Fig. Generated Bill/Invoice

V. Conclusion

To conclude, stock control is a simple computing device base application basically suitable for small corporation. It has each primary items that are used for the small organization. In any commercial enterprise, make it large or small, we should remember the fact that taking suitable care of our inventory could be very essential. If we as managers do no longer understand the idea of precise inventory control, we ought to learn to be acquainted with it and its applications. one of the reasons for the failure of a business is its stock control. there are numerous methods to combat failure, and we can begin from here. There are new generation which could assist us maintain and supervise our stock. What we will do is research, put in force and examine our enterprise. And you may begin with your stock.

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