

INVENTORY SYSTEM WITH GST BILLING AND MACHINE MAINTENANCE USING QR CODE FOR AN INDUSTRY

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Abstract-The Hardware industries experiences issues in making the stock exchange which brings about postponement of the reports, monitoring the all through items and their machines to be kept up in the high level manner. The Inventory System is intended for the hardware industry to set up a framework to monitor the records and merchandise all through the whole store network, from buying to creation to end deals. The client prerequisites are examined to distinguish the data needs of the end clients and the association. The machine support measure is additionally exceptional utilizing QR codes examine.

Keywords: *inventory system, sales and inventory, supply chain, stock management, invoice bill,asp.net*

I. INTRODUCTION

The Inventory System for Hardware industry tracks every one of the records of the things being sold. The acquisition of the crude materials and the things being sold will be followed the GST charging, it will be looked after effectively. The machine support will be finished by examining the QR code. By filtering, the subtleties of when the machine was kept up as of late will be known and when the machine ought to be kept up next will be informed. The Objective is to automate the sales and inventory processes hardware industry. To easily monitor the products, to simplify the process of making inventory reports. To generate precise inventory reports on time. Such objectives will be a big help in maintaining an efficient flow of operations while generating fast and accurate reports needed for submission and compilation. The production costs are estimated along with the GST billing. The Machine Maintenance is also important for the companies, so the proper efficiency of the machines it can be checked ASP.net, CSS, SQL Server is utilized for the stock framework. The machine maintenance, for each machine QR code produced and past and next machine maintenance date is shown in text design when the QR code is examined the subtleties showed in the Android Application

II. LITERATURE SURVEY

[1] Punam Khobragade, Roshni Selokar, Rina Maraskolhe Prof. Manjusha Talmale “Research paper on Inventory management system”

The effect of stock administration practice on firms' intensity and hierarchical execution: Empirical proof from miniature and little ventures in Ethiopia: According to Stevenson (2010), Inventory Management is characterized as a structure utilized in firms to controlling its advantage in stock. It incorporates the account and seeing of stock level, assessing future solicitation, and choosing when and how to mastermind. Then again, Deveshwar and Dhawal (2013) suggested that stock administration is a technique that organizations use to sort out, store, and supplant stock, to keep a sufficient stockpile of merchandise simultaneously limiting expense. Miniature and Small Enterprises (MSEs) have an essential significance in non-industrial nations like Ethiopia; they add to public pay, work, fares, and business venture advancement. The advancement of MSEs is the focal point of the Ethiopia mechanical improvement system as it is expressed in Growth and Transformation Plan (GTP). Thusly, in the improvement cycle of any country, the exhibition of MSEs dependent on rivalry, profitability, and proficiency will assume a critical part in the economy. It is seen from writing that utilizing formal stock administration rehearses is one of the approaches to get seriousness.

[2] Utkarsha Mendhe , Ankita Lohave , Aayush Sah , Varun Paliwal , Prof. Nutan Sonwane “Research paper on Inventory management system” Studies conducted on Inventory System in Kenya:

An examination directed in Kenya by Naliaka and Namusonge (2015) recognized that stock administration influences upper hand of assembling firms. A similar report further infers that the firm can contend dependent on quality and conveyance of client arranges on schedule. Upper hand includes capacities that permit an association to separate itself from its rivals and is a result of basic administration choices (Li, Ragu-Nathan, Ragu-

Nathan, and Subba Rao, 2006)..

III. EXISTING SYSTEM

In the Existing System, the Hardware Industry is utilizing Excel Sheet to keep up the business records and for the crude materials being bought Dominate is additionally fit for dealing with fundamental stock administration for independent companies. While not ideal for a medium or huge estimated stock, Excel is practical or, on the off chance that you use it in OneDrive, even free. Like whatever's free or modest, Excel isn't wonderful stock administration, however it has a lot of significant highlights. While it is not difficult to commit errors in Excel (and staying away from them will require tedious inspecting, appropriate association, and severe administration), it is completely fit for dealing with a new companies stock.

Failure: It is excessively tedious to physically refresh a bookkeeping page each time crude materials are purchased and to sell items.

Twofold Data Entry: Data blunders can undoubtedly crawl into the dominate accounting page and different arrangements

Information Insecurity: It is hard to keep unapproved work force from getting to an accounting page.

IV PROPOSED SYSTEM

The Inventory System for Hardware Industry tracks every one of the records of the things being sold. The acquisition of the crude materials and the things being sold will be followed the GST charging figure 4, it will be looked after effectively.

The production costs are estimated along with the GST billing. The Machine Maintenance is also important for the companies, so the proper efficiency of the machines it can be checked The machine upkeep will be finished by examining the QR code .When the QR code is scanned the details displayed in the form of text displayed in figure 5.

V ARCHITECTURE

Purchase: If the material being mentioned is to be bought.

Material Transfer: If the material being mentioned is to be moved starting with one Warehouse then onto the next.

Material Issue: If the material being mentioned is to be Issued for some reason like assembling.

Manufacture: If the material being mentioned is to be delivered.

Customer Provided: If the material being mentioned is to be given by Customer. To find out about this, visit the Customer Provide item page.

V. METHODOLOGY

Gathered the prerequisites for the stock framework and the specific machine IDs for the QR code for machine support. Designing of the engineering to comprehend the stream. The different modules are intended for the utilization, instalment voucher, credit, and charge. The modules are planned utilizing ASP.net, CSS and the information are put away in the backend by utilizing SQL worker. For the machine support, QR code is created by utilizing the Android Application. Java programming language is utilized. With the QR code, when the machine was kept up in conclusion can be known and the following date for impending support will be refreshed.

The Supplier receives the order of the products. In the receiving order, they store the orders. The availability of the stock is checked figure 2. If the stock is available, then an invoice is created and sent to the customer. The customer after receiving the invoice, makes the payment to the supplier. If the stock is not available then it is notified about the unavailability of the stock to the Supplier. List of modules for hardware inventory systems are Login ,Home ,Master ,Order Transaction ,Production Transaction ,Purchase Transaction ,Sales Transaction ,Job work Transaction ,Accounts ,Report ,About.

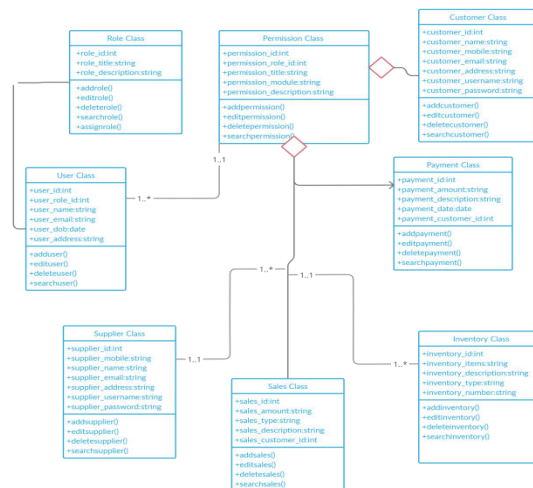


FIGURE 1: CLASS DIAGRAM

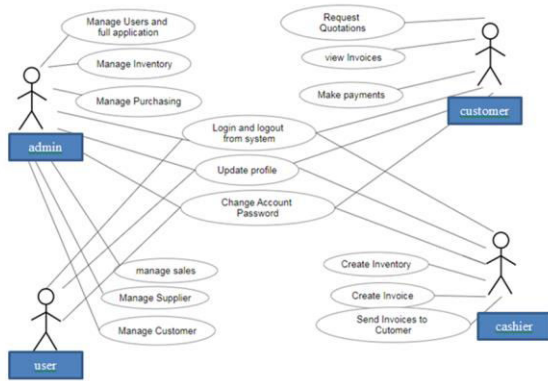


FIGURE 2:USE CASE DIAGRAM

VI. ADVANTAGES

- Better item deceivability in case of a review
- The capacity to settle on more beneficial business choices
- Improved business arrangements
- Avoidance of stock-outs and overabundance stock
- Greater cost-investment funds
- Reduced hazard of overselling
- Reducing mistakes

VII. EXPERIMENTAL OUTPUT



FIGURE 3 PARTY MASTER

In the Party Master, the Party Type and the Business related subtleties are filled in the gathering ace. The Party Type, Business name, address of the organization is noted. Additional data which are helpful for working with the Companies incorporate Phone no, TIN No, Merchandiser, Point of Contact, State, City, Mail id , CST no, PAN number. The name of the specialist managing, credit limit sum, charge credit subtleties, conveyance party name, transport name and conveyance address. These are the fundamental data to be filled and saved in the Party Master.

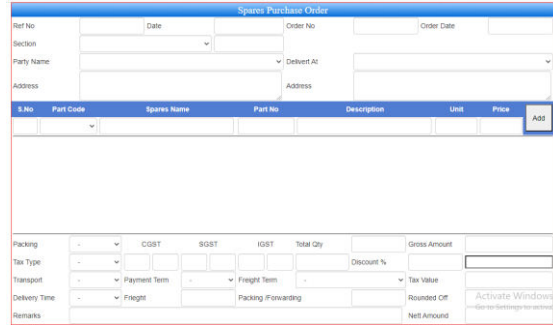


FIGURE 4 SPARE PURCHASE ORDER

In the Sparse Purchase, the ref no, seller name, charge esteem, GST Type, Due days, Due Time is filled. The door pass number, gotten by the individual name. The complete number of things and in how much quality is taken into note. The assessment esteem, GST Amount, SGST, CSGT, the net sum paid is to be filled and saved. The new scanty buy should likewise be possible




FIGURE 5 QR CODE AND TEXT FILE

The QR Code is Scanned and then the machine maintenance date and history of the machine is displayed in the form of text

VIII CONCLUSION

. The major goal of this Inventory System is to track the products, raw materials, generates the invoice and for the payment purposes The tracks of the raw materials, invoice, party entry, purchase order, payment is maintained efficiently and in easy manner ,the records of the products and raw materials are maintained in an efficient way. The machines are maintained in an advanced way using Android Application. By scanning the IDs of the machine, the information The updates of further machine maintenance dates are specified and when the machine was maintained lastly is also known.

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