Stock Management

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Abstract - *This project is mostly used in the marketing of tiles where the shopkeeper and owner of the shop can easily pass information of their product to the customer. By using this type of application customer can easily get information about the product that they want to buy. Maintaining a balance between too much and too little inventory for the future use in shop. Tracking inventory as it is transported between locations. To maintain a stock for each and every data as well as of every product they are dealing with. It is also used for to reduce overhead cost and Time saving application. It will give a Maximum profit within less cost, update Log will be maintained. [2]*

Thus this model is aimed at providing future benefits to the tiles industries.

 Key Words: Admin, User, Statistics, Feedback, Filter search, Notification, QR code detection.

1. INTRODUCTION

Stock organization writing computer programs is a PC based structure for taking after stock levels, solicitations, arrangements, product information, etc. It can moreover be used as a piece of the amassing business to make a work organize, bill of materials and other creation related reports. A good stock management system will tell you what merchandise in stock, what is on order, which product customer can buy and what you've sold. With such a system, you can plan purchases intelligently and quickly recognize the fast-moving items you need to reorder and the slow-moving items you should mark down or specially promote. Some retailers track inventory using a manual tag system, which can be updated daily, weekly or even monthly. In a manual tag system, you remove price tags from the product at the point of purchase. It's motivation is to keep your stock levels adequate to cover the interest for those items. [1]

2. BACKGROUND STUDY

According to a survey, the tiles wholesalers usually maintain manual record of the stock sold/stock available. Once the customer places the order a challan is made which a manual task again. Maintaining a record of which customer has fully paid the amount and who haven't is also difficult. So to reduce all of the Manual work we have created a software which is customized as per the needs and the Stock is maintained in a easier, faster and a efficient way. The admin can also change the status of the bill amount i.e. Paid/Unpaid. And a Mechanism for automatically generating the Challan is also included. This is the motto of this model "Stock Management". [4]

3. PROPOSED MODEL

In this paper, the proposed model is an Stock Management System developed for a Tiles Wholesaler, focusing on maintaining the tiles stock available and easily generate a challan for the customer. A Mobile Application is also included so that the user can also place the order by using mobile phone

Thus the tedious work of the shopkeeper i.e. maintain a stock record manually, personally informing the customers about new stock or new designs available is eventually reduced the wholesaler will also get a overall statistics of the items sold Daily/Weekly/Monthly and can figure out which item has higher demand and plan the stock accordingly. QR Code(placed on the item) is also provided to the user for scanning and directly find the product needed.

The wholesaler needs to regularly update the customers about the new stock or designs. The Tax Payment also becomes easier as the bills are generated online and the tax amount to be payed is automatically generated.[3]

4. WORKING OF PROPOSED MODEL

In our project admin uses web application and customer uses android application. The system is work as server in our project.

Admin open our application by login into it. Admin add all the information about the tiles, its category, sub-category, price, images, etc. When user generate challan to buy the product at the time admin receive notifications about it and admin can view all the registered users and their feedback in web application.

Customer needs to register first and then login into our application. In the shop, user can scan the QR code of the particular tiles and they can view all the information about the tiles. If they want to buy particular tiles then they can generate challan and that challan automatically send to the admin. User can provide feedback and comment and that will can view by admin.

5. COMPONENTS REQUIRED
- Android Phone

- Personal computer

- Wi-Fi Router

- Java JDK 1.8

- MySQL

- Eclipse photon

- Xampp Software

6. CONCEPTS USED

Text To Speech: Google Text-to-Speech is an interface between user application and operating system displayed on the computer screen. It allows applications to read out loud the text on the screen. Speech computer or rather we say speech synthesizer is used in hardware and software components. This is later on translated into speech with the help of this synthesizer. The quality of a speech synthesizer is judged by its similarity to the human voice and by its ability to be understood clearly.[5]

7. ADVANTAGES

- Easy to track stock availability, customers and bills
- Easy for customers to view and find data
- User friendly interface
- Less time than manual work and reduce manual work

8. APPLICATIONS

- Merchant places
- Wholesalers
- Product distributor can use this application.

9. RESULT

Thus the wholesaler/admin can easily maintain the stock of all the items available. Because of Automatic Challan Generation the user gets to know the profit or loss faced. The overall statistics also helps the user to figure out which item is sold the most and plan the stock accordingly. Admin does not need to check the stock everyday as a alert is given when the stock or a specific item reaches the Boundary Condition established.

10. CONCLUSION

Stock management project can easily provide information to customers. Manual work of shopkeeper will reduce by using this application. Customer can view information and images of tiles that he want to buy and as per his mind he will generate challan. After successfully generation of challan admin will notified by mail. So direct communication for explaining the price, features and information is reduce. So our application can make user friendly to customer and also

for admin. Admin easily get all the information on this application.

11. FUTURE SCOPE

Maintaining a Inventory system is very helpful as the management is done properly and the business can be taken to a higher level. If a customer is impressed by the method which is followed for placing the Order then it keeps your customer coming back for more. This increases the efficiency of the business. The amount of time and money spent on manual work is reduced and that can be used for other work.

12. REFERENCES

1. Zhou Di-min, "The Research and Development of Inventory Management Information System", Hunan Science and Technology University, 27(11), 2006, pp.232-235.

2. Kahn, B.E., Schmittlein, D.C., 1989. Shopping trip behavior: An empirical investigation. Marketing Letters 1 (1), 55–69.

3. Mahajan, S., van Ryzin, G., 2001. Stocking retail assortments under dynamic consumer substitution. Operations Research 49 (3), 334–351.

4. 2015 IEEE 4th Global Conference on Consumer Electronics (GCCE) "Stock food management system with sensing the weight for minimizing user's load"978-1-4799-8751-1/15/$31.00 ©2015 IEEE

5. https://www.npmjs.com/package/gtts