

INVENTORY MANAGEMENT FOR MEDICINE PLACE FINDER

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Abstract - *The problem in medical store is not only arrived now-a- days but it is arising long days ago. The problem such as the seller alone has to keep in memory the place of each and every medicine. Also he has to keep the updates about the sale, purchase information, availability and also the most important expiry date of medicine. Thinking on the problem of medical store and its proper use from the time we are designed new system that solved all this problem is going to arrived in medical store.*

Key Words: Arduino¹, Entry form², Import Form³, Export Form⁴, Login ID⁵, database⁶, drawer system⁷.

1. INTRODUCTION

The main aim of our system is to find the place of the required medicine by automatic indicating that drawer. There is need to develop the new system which will overcome all problems of traditional medical store system, which will latter convert into convenient job.

Now a day's medical field is having great importance. The seller alone has to do duty of providing not only the appropriate medicine but also in time. Today this is done by remembering the place of medicine. Hence many of times it happens that he can't found the required medicine in time & there are varieties of medicine are available in medical store. The seller alone has to keep in memory the place of each and every medicine. Hence it is too hectic job as there

are certain limitations in remembering capacity of human memory.

Hence there is need to develop new system "MEDICAL STORE AUTOMATION" where apply "automatic indicating drawer system". For this require to prepare data depth providing information about medicine with its rack address by using visual basic software. Also facility of updating information about medicine i.e. entry of new medicine can be made easily. Hence in overall all problems of traditional medical store system can be overcome and work will do in efficient manner.

1.1 Objective of System

The objectives of this system are

- To design the circuit that can automatic indicating drawer
- To care the pharmacist alert about the out of stock of the medicine
- To provide a secure system application in terms of information retrieval & to help in decision making
- To provide a systematic medicine inventory

2 SYSTEM DEVELOPMENTS

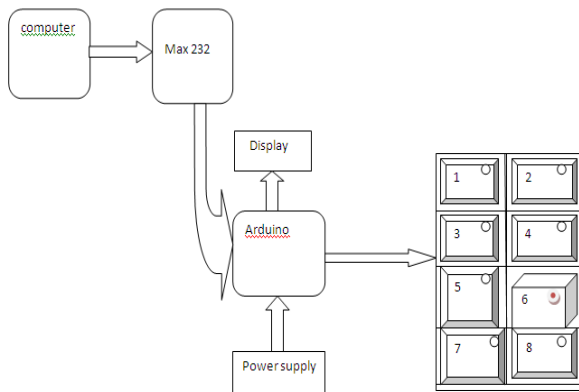


Fig 2.1: Block Diagram of project

In this system there is centralised computer in which MS access as a data base. By using visual basic software medicine updating form is created. This updating form the user will enter the data base of available all the medicine along with its quantity .When entry form is fulfil correctly then the data is transferred Arduino through max232. It will display the particular drawer number as well as send this command to rack and drawer is indicated automatically.

2.2 Technical Description

In this system data base and visual basic act as an transmission part where the seller first store all varieties of medicine are available in medical store by using entry form. The computer and arduino connected through Max232 that means with transmitter and receiver communicated to each other using MAX232.The transmitter module takes serial input and transmits these signals through MAX232. The transmitted signals are received by the receiver module placed away from the source of transmission.

The system allows one way communication between two nodes, namely, transmission and reception.

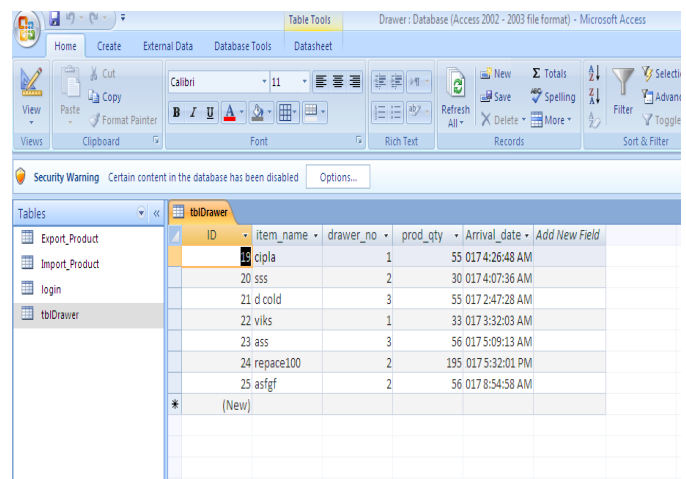
TRANSMITTER SECTION



Fig 2.2: login ID form

In this transmission section there is computer which having windows operating system along with Microsoft loaded data. By which MS access as a data base. There are mainly three database are available such as Import, Export and entry. For security purpose system has password. When seller open this system then seller have to give login ID and password to work farther. If seller has successfully login then entry form and product details form is ready to access.

DATA BASE :



ID	Item_name	drawer_no	prod_qty	Arrival_date	Add New Field
1	cipla	1	55	0174:26:48 AM	
20	sss	2	30	0174:07:36 AM	
21	d cold	3	55	0172:47:28 AM	
22	viks	1	33	0173:32:03 AM	
23	ass	3	56	0175:09:13 AM	
24	repace100	2	195	0175:32:01 PM	
25	asfgf	2	56	0178:54:58 AM	
*	(New)				

Fig 2.3 : Data base

ENTRY FORM:

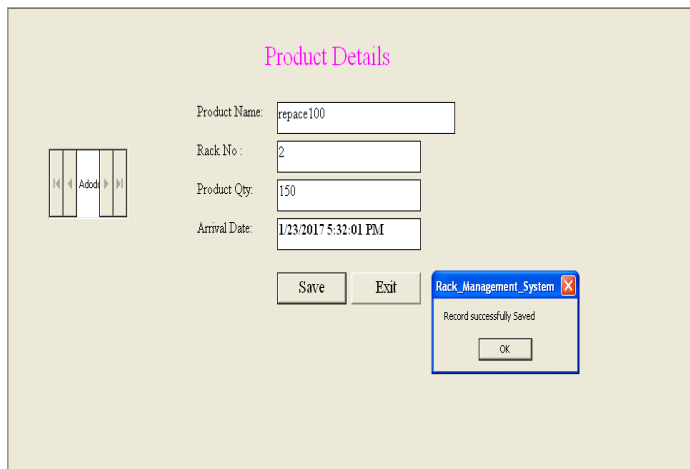


Fig 2.3: Entry form

Name of medicine, rack no, available quantity, arrival date are seen in the entry data base. Import form consist of medicine name, imported quantity and arrival date. as well as in Export form contain medicine name, exported quantity and export date. By using visual basic software will be developed user registration or medicine updating form will be created. In this entry form the user has facility to search different medicine. To update quantity, rack no and enter the new medicine name entire in to the data base of available all the medicine along with its quantity. This will be helpful for creating the data base means the entire data will be automatically store the ms access data base. In this entry form is created by using text button , combo box, Adodb, label. Adodb is used to create a path between data base and the visual basic software.

This form will be developed through visual basic this will act as graphical user interface. When the customer come at store demands some medicines then the seller first search the medicine available or not to entering the name of required medicine and also check availability of the same medicine. It will again check the

availability quantity based on the demand. If the quantity is available then the rack no command is send to the arduino. If the stock is not available it gives the message quantity is not available.

IMPORT FORM:

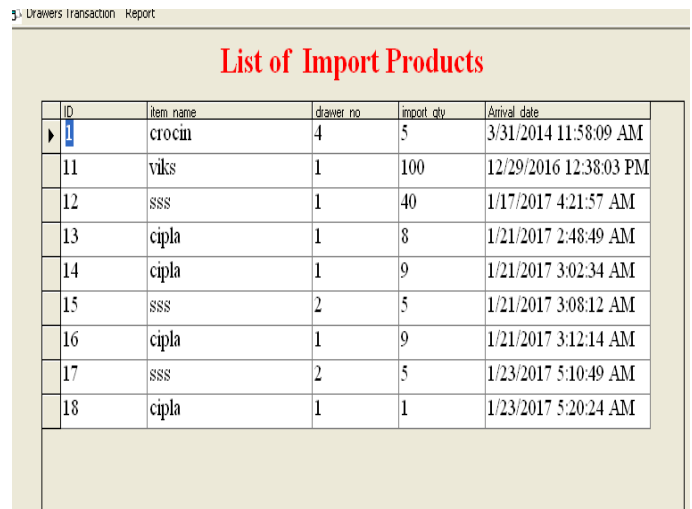


Fig2.4: Import form

EXPORT FORM:

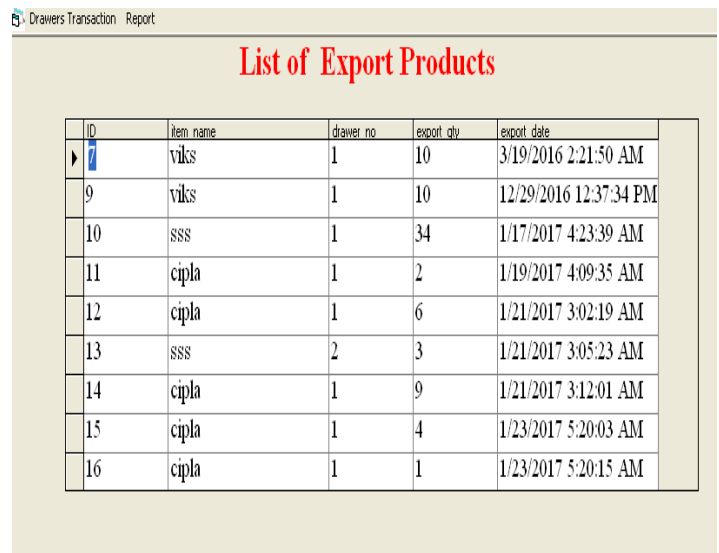


Fig2.5: Export form

3. RECEIVER SECTION

The receiver system is developed by using MAX232 and microcontroller ATMEGA328.when the seller entered medicine is available then computer send

commend which content drawer number to the arduino. In this module we receive the command from computer (drawer number). The medicine available in corresponding drawer will be automatically indicating through LED. Then user will open the drawer and will give the particular medicine to the customer. This helps the seller to find the medicine in particular place and save his time.

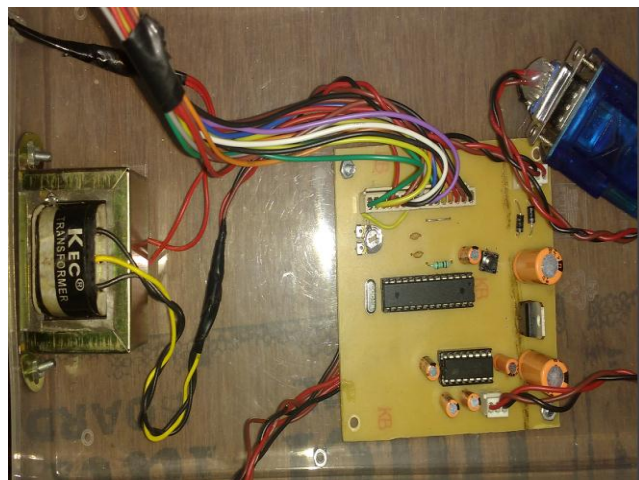


Fig3.1: Receiver section

APPLICATION

- 1 To find out place of medicine
- 2 To understand the stock of medicine

RESULT: medicine place finder and inventory management system is designed with ATMEGA328. , as user enter the medicine name at transmitter side and the proper place of the medicine sensed and synchronized with the help of address matching by the receiver section and the seller do his job in very less amount of time.

FRONT VIEW OF SYSTEM:

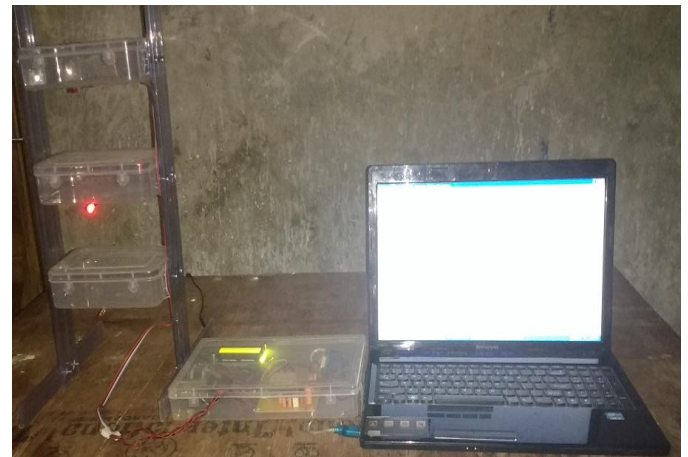


Fig3.2: Front View of System

4. CONCLUSIONS

Every day we found crowd at the medical store and therefore it is important to control them. In this system in order to improve the control performance, medicine place finder & inventory based system is based on ATMEGA328 and visual basic GUI environment. When the seller enter the medicine name it first search the medicine then check out available quantity if stock is available then send the command to the ATMEGA328 microcontroller it indicates the particular drawer through LED. It is considered that more successful results are obtained in this type system. This module use to keep the updates about the sale, purchase information, availability and also the most important expiry date of medicine

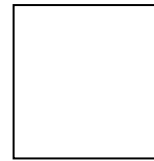
ACKNOWLEDGEMENT

We take the opportunity to express our reverence to Sanjay Ghodawat group of Institutes, Atigre, Kolhapur for the support and available facilities during this project. We are very thankful towards Dr. V. A .Raikar, the Director and Mrs. S. R. Chougule HOD of E&TC department, for their valuable guidance and

encouragement. Deserve special thanks for encouraging us. We thank all our teachers for their contribution in our studies.

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