Med Box Health Care System Using IoT

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Abstract- *Proper Medication is necessary to become a healthy but failure of that can create big trouble for a patient. This is extremely problematic for the elderly patient who had problem in keeping track of their medicine. So to overcome this we made this Med Box which keep tracks of the dosage and duration between each consumption. Poor eyesight as one of the contributors for medicine consumption errors such as misdosage since the elderly finds it troublesome to read the instruction on the medicine case and identifying the right dosage of the medicine along with that Memory loss is common in old age due to that decrease in speed of information being retrieved.Hence, this Med Box will track their medication and automatically dispense the medicine at the right time and buzzer will make sounds.Device consist of an emergency button.Patient press the button, warning message will send to the guardian. Med box will dispense the amount of water to take the medicine.*

Keywords- Med box, Modification safety, IOT, Embedded C, Arduino.

I. INTRODUCTION

Our medicine box is targeted on users United Nations agency often take medicine or nutriment supplements United Nations agency watch out of the older or patients. The med box is programmable that permits users to specify the pill amount to require and therefore the serve time for every day.Our med box will dispense the medicine automatically. Our med box is suitable for aged people.With improved convenience and lower prices, the new choices created through this work will assist the aged in developing the habit of taking their medications often. The members of the family or patients got to fill the medicine within the med box manually, this is often an extra responsibility for members of the family of the aged, or maybe the patients. User register medication and details into good med box for often take medicine. Good med box have emergency button. patient send emergency notification to user. Whenever user forget the dosage, buzzer will sounds continuously . In our system bed down is completed warning message send to the user moreover as medical store for brand new bed down demand. Our pillbox differs from existing solutions because it will give medical bag checks and make sure medications, all at an occasional price. What is more, med box is appropriate for aged people.

II. EXISTING SYSTEM

In existing, where the camera is placed in inner side of the box to detect the matrix barcode and the medicine bag. A hardware module above the box was used to provide pill reminding and alarm functions. After visiting a doctor and returning home, a patient need only scan the matrix barcode using the camera of the pillbox, and all medicine related information will be loaded into the pill box. After the matrix barcode is scanned, the patient places the medicine bags in the pill box without dispensing the medicine in to the cell. This method is suitable for the elderly who do not have access to the internet as well.

III. PROPOSED SYSTEM

Proper Medication is necessary to become a healthy but failure of that can create big trouble for a patient. This is extremely problematic for the elderly patient who had problem in keeping track of their medicine. So to overcome this we made this Med Box which keep tracks of the dosage and duration between each consumption. Poor eyesight as one of the contributors for medicine consumption errors such as misdosage since the elderly finds it troublesome to read the instruction on the medicine case and identifying the right dosage of the medicine along with that Memory loss is common in old age due to that decrease in speed of information being retrieved.Hence, this Med Box will track their medication and automatically dispense the medicine at the right time and buzzer will make sounds.Device consist of an emergency button.Patient press the button, warning message will send to the guardian.

IV. MODULES

Our project involves mainly of three modules

- Identify
- Rotate
- Admin
- Sending a message

Identify: This module is used to identify the which box to rotate.

Rotate: This module is used to rotate the box.

Admin: In this, only authorized person can access the database. Database contain all patients medicine information.

Sending a message: This module is used,whem patient press the emergency button,system will automatically send a notification to the user.

V. FLOW CHART

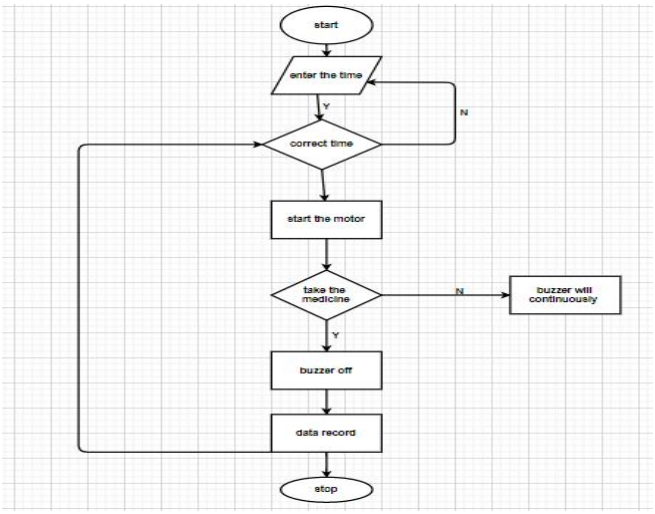

Fig.1:process of project

VI. RESULT

Fig.2: Screen Display

Fig.3:buzzer

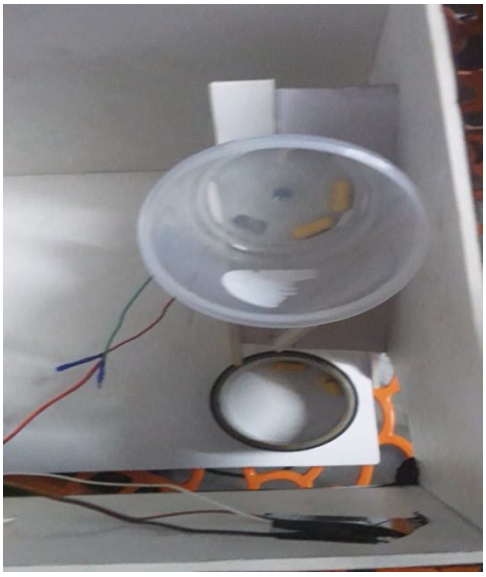

Fig.4:pill droped

When the patient press the emergency button, a message alert will be sent to the user.

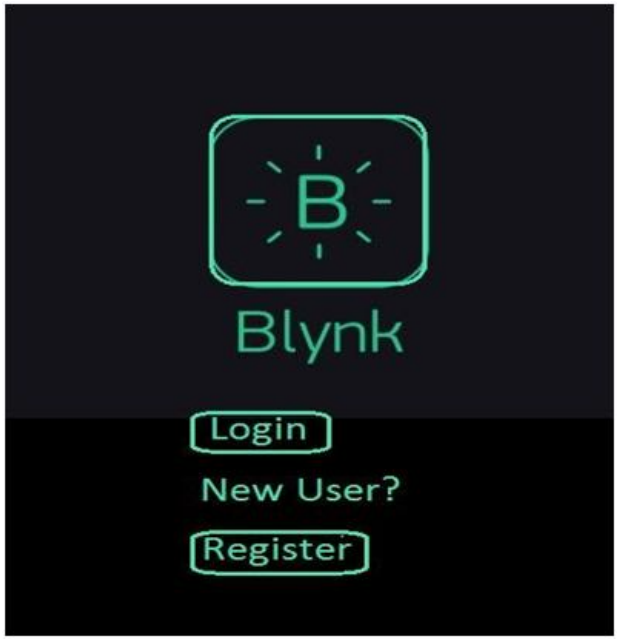

Fig.5: Blynk App

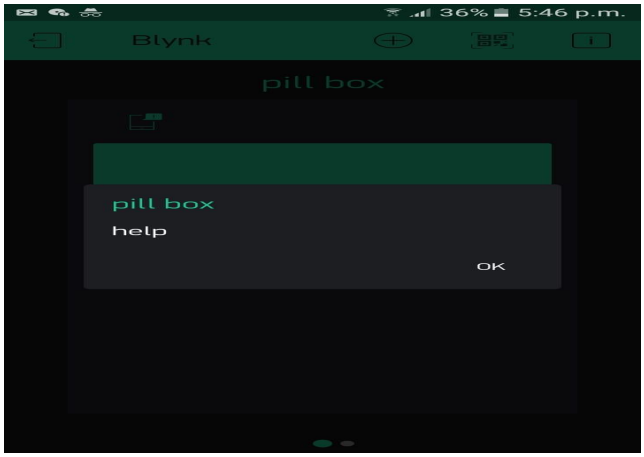

Fig.6: Message Alert

Blynk app for Arduino:

- Download Blynk app on user mobile.
- Create New Account.
- Create New Project.
- Add Widgets to project(alert message).
- Connecting with Arduino(code).
- Execution.
- Output(Fig 6).

VII. CONCLUSION

There is a great need for timely intake of medicines which is often skipped by many people. Our Med Box helps to dispense us to take medicines regularly and also which medicine to take. Thus this implementation, though small and simple, will be a very great and useful step in the field of medicine

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