

A SMART PILL BOX WITH REMIND AND CONSUMPTION USING IOT

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Introduction

The motivating force behind this design is based on the desire to alleviate the problem faced by the aged and physically challenged people in trying to monitor patients in hospitals or at home. It also takes into consideration the disabled or aged people that may have problems to remind themselves of the time and the medicine to be taken.

A substantial number of patients, particularly the handicapped and the elderly do not follow instructions in taking medication. This can result in a patient failing to take medication, taking the wrong medication, taking an incorrect amount of medication, or taking the medication at a wrong time, leading to either a drug overdose or an ineffective application of medication to the patient. The elderly is especially prone to problems since they often take several medications and have failing memories. Caretakers such as nurses also need to be reminded on occasion that a patient needs to take a particular medication at a predetermined time (Rita M. Agans, 1992). There is a recognized need for providing medicines on a regularized basis with timed notice to the person requiring them. Patient medication reminder is useful to all patients. Nowadays, patient monitoring is a critical task. The physician has to monitor the patient's health continuously, and the prescribed medicine has to be given from time to time. There are instances when patients remember to take medicines at the stipulated time but forget which pill has to be taken. The task is to design, a patient medication reminder circuit system that records the time and the name of the medicine to be taken by patients at a correct time. The time and medicine names are changed.

Objective

- (a) To enable users, include blind people to take the correct medicine on time with minimum people assistant.
- (b) To ease users to keep all medicines in one remote box this can be carried around easily.
- (c) To enable user to locate the "Smart e-Pills Medication Box Reminder" if they misplace the box with transmitter and receiver system equipped.

(d) User friendly. Easy to use even for blind people with Braille provided.

Methodology

The task is to design a patient medication reminder circuit system that records the time and the name of the medicine to be taken by patient at a correct time. The time and medicine names are changed according to the patient need through the keypad connected. By using keypad, the prescribed timings can be entered, at which the patients have to take medicine. The list of medicine has to be taken by the patient at the prescribed time which is displayed on the Character Liquid Crystal Display. Thus, the status of the patients can be easily monitored by the physicians.

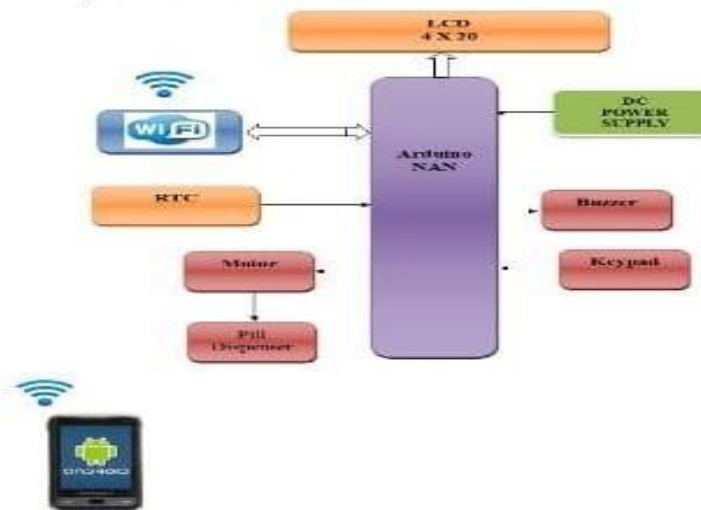


Fig: Block Diagram

Result and Conclusion

We made our project as useful for the patient who needs this and all related users. We conclude result that our project is useful for those people who are taking pills regularly, prescription of medicine is very long and hard to remember for those users. Our product is so useful that it can cure those patients' illness and there will no need of taking care of these types of patients so caregiver has no tension about their health and they will live healthy and tension free life.

Future Scope

- (a) Cost efficient: Our product cost is affordable compare to other product available in market.
- (b) User friendly: User can set time table of medicine by himself.
- (c) Highly reliable: Good in quality and performance; able to be trusted for patients & old age people.
- (d) Provide comfort and health: Comfortable for old age people and provide healthy life for patients who are regularly take medicines.
- (e) Long-Lasting: The product can be used for long time
- (f) Easy to use and manufacture: It is very easy to use and manufacture.
- (g) Accurate result: Alarm will ring at proper time which is set by user previously.
- (h) Easy to maintain: It need less Maintenance. It is one time investment afterwards it can be used continuously