

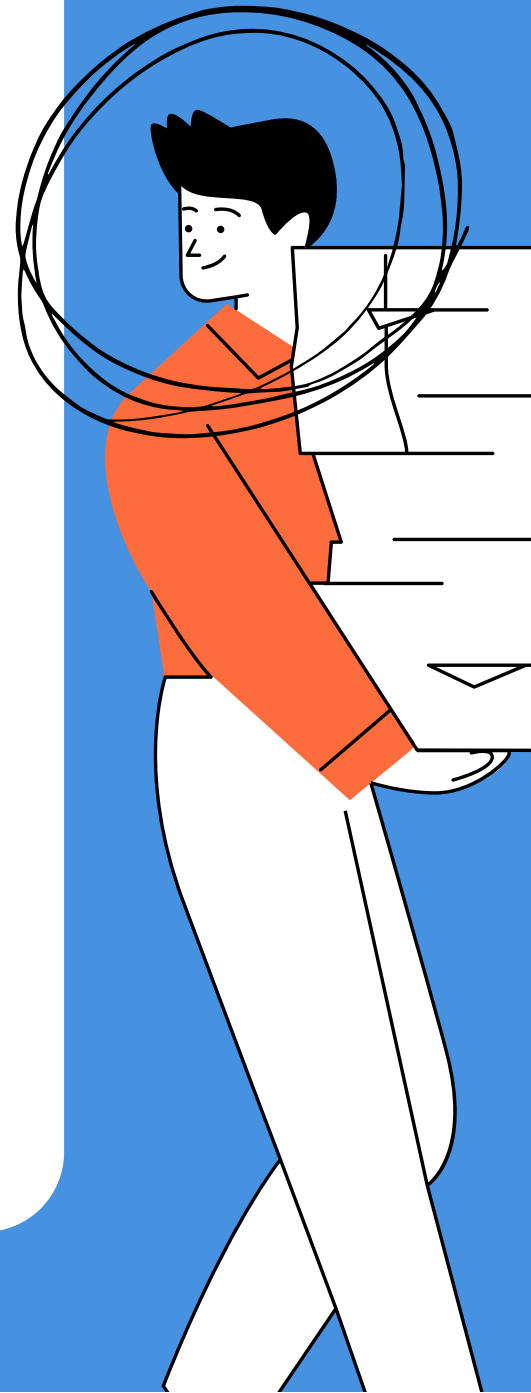
# Literature survey

## SMART PILL BOX USING IOT

**NAGA SWETHA , MAHENDAR, ROOPSINGH, CHINNA**

There can be a lot of individuals out there who need constant help - may it be our elderly people, family members, the ones who have special needs. These people apparently need the kind of care which most busy family members cannot provide. Some people may forget to take the medicines at the correct time and can forget the medicines which they have to take. So in order to help them with this liability we have developed this project. The people are provided a smart med box on which there will be a display which notifies the people about the medicine. Along with this we can alert them with an alarm and light indications. So that even if the person is sleeping or busy with some work the alarm helps in alerting him. to confirm that the person has taken that medicine or not we can put one button at the opening end of the pill box. so when the person tries to open the box the button is pressed and the alarm will be off only if the buzzer is pressed. by this data we can tell that the person has taken the medicine. It comes with one more feature that when the person is feeling uneasy or in case of some emergency he can notify the people by pressing the button on the device. There are different buttons, one is used to notify the doctor and the other one is used to notify family members about the emergency. Key words: Node MCU, Pill box, Buzzer, Reset Button, Mobile App

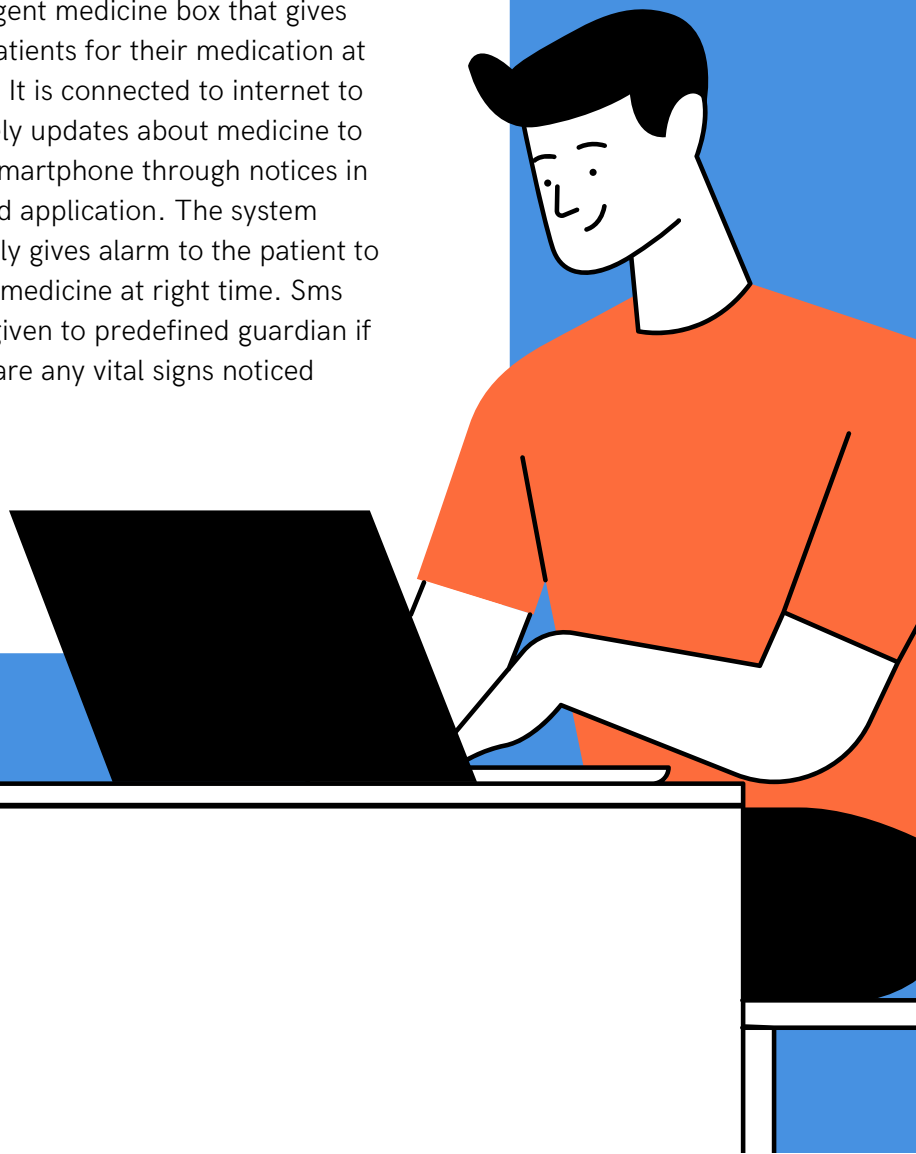
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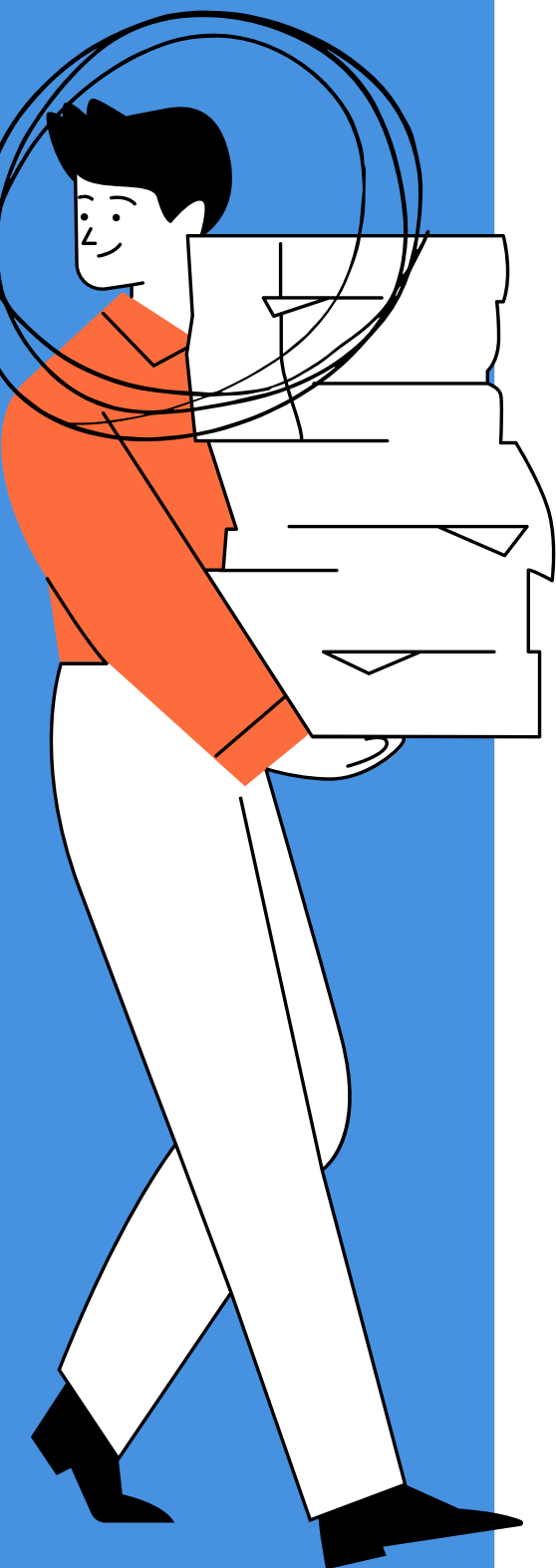


## Intelligent medicine box for medication management using IoT

M. SRINIVAS , P. DURGAPRASAD RAO ,  
V. NAGA PRUDHVI RAJ

Now a day's trend in healthcare is to move routine medical checks and other health care services from hospital to the home environment. A modern healthcare IoT platform with an intelligent medicine box along with sensors for health monitoring and diagnosis is proposed here. An intelligent home based medicine box with wireless connectivity along with an android application helps patients and doctors to be in more close communication. The proposed model has an intelligent medicine box that gives alerts to patients for their medication at right time. It is connected to internet to make timely updates about medicine to patient's Smartphone through notices in android application. The system automatically gives alarm to the patient to take the medicine at right time. Sms alerts are given to predefined guardian if there are any vital signs noticed





## Smart Pill Box With Reminder To Consume And Auto-Filling Process Using IOT

B. PRADHEEP T RAJAN; A. BRIGHTNY; CARLUS D REBEAK;  
S. POOJASEN; P. VIJAY; M. SURESH; R. ROHITH ALEX

Many countries are affected by population growth issues, as a result of the low birth rate elderly age, people are increasing day by day. They need more attention from the family side to take care of them.

So for this issue a well-equipped automatic reminder to consume pills at right time, for this introduced smart pillbox which considerably reduce family responsibilities. Over on this peak of technology, this smart pill is prepared by using GSM interfaces with Arduino and also implemented IOT through Blynk app receive notifications. The major responsibility of making people to consuming pills is resolved by using this smart pill setup. The main working principle of this box is remainder to consume pills at right time and also give remainder if the pills are going to finish. Sensors are arranged in the setup to identify the room temperature and humidity and all the information is can view through the Blynk app from anywhere.

# An IoT Approach Toward Storage of Medicines to Develop a Smart Pill Box

AMARA ADITYA MANIKANTA, HIMANSHU SAHU,  
KRATIKA ARORA & SRIKRISHNA VAMSI KONERU

Elderly people often face difficulty to remember and to find the tablets after their meal. Also, many people do not check the expiry date of the medicines in the medical box. This may lead to wrong drug intake and harmful side effects due to the wrong medicines. They remember tablets in color and size particularly, but if the prescription changes, they need some time to get habituated to the intake of medicine routine. This might be in loop if the patient is suffering from long-term health issues. Generally, pill boxes are organized in small boxes for different timings, and manually, elderly people need to check and take their medicine. This uses more space and a person intelligence to recognize the day, time, and the box for finding the correct medicine. In this paper, a smart pill box device has been developed to store more medicines in a particular container and reminds the person using an IoT-based approach.

