

TECHNOLOGY: Internet of Things (IOT)

PROJECT : Personal Assistance for Seniors who are self-reliant

LITERATURE SURVEY

Paper 1:

Vikas Anna Mali, “ **IoT Based Intelligent Medicine Box with Assistance**”
International Research Journal of Engineering and Technology (IRJET),
Volume: 09 Issue: 07 | July 2022

Proposed Work:

In this paper, the intelligent medicine box has been designed. This medicine box stores the medicines and which alerts and remind to patients to take the medicines time to time. So that it avoids the health hazards due to negligence of not taking medicines time to time. Also in this paper different health parameters such as pulse rate, blood pressure and temperature and ECG of heart are measured. These parameters are sent to firebase IoT. Doctors can monitor health parameters on firebase website and accordingly decisions can be taken about patient treatment.

Paper 2:

Padmini V,Pallavi KS, Prema M , Priya Hegde, Dr.Sreenivasa Setty,
“**INTERNET OF THINGS (IOT) BASED SMART HEALTHCARE MEDICAL BOX FOR ELDERLY PEOPLE**” , IJARIE-ISSN,Vol-7 Issue-3 2021

Proposed Work:

The iot-based smart healthcare system has been advised here, which will hold an intelligence medicine box affiliated with sensors and servers for usual health supervising. The smart medicine box which is having wireless

internet connectivity will help the patients to get easy communication between the doctor and the patient without influencing physically and also to get a regular health checkup. This advised medicine box assists the user/patient to use up the exact medicine with an email at the exact time which will facilitate the patients to take the medicines. A laptop is used to store the elaborate data about the doctor and the patient along with the prescription and designation date. Here, the laptop is used as a server. Both the doctors and the patients will have their unique IDs' and passwords for approaching the server. For the doctor's comfort, the temperature and the medication information of the patients are stored on the server. The patient's prescription can be modified by the doctors if essential or in a serious condition, which will also be advised through email.

Paper 3:

Pampapathi B M , Chandana Murthy , Supritha Kumar , Pooja M , Supriya K, "**Survey on IOT Based Medical Box for Elderly People**" ISSN 2278-3091 ,Volume 10, No.3, May - June 2021

Proposed Work:

A smart IOT-based healthcare system, which includes a sensor-associated intelligence medicine box and a server for routine health monitoring, has been proposed here. This wireless internet access smart medicine box allows patients to get daily health care and to establish easy contact without physically meeting between doctor and patient. The recommended medicine box allows the patient to take the correct medicine at the right time, along with an email to help the patient take the medicine. A laptop is used as a server where, along with prescription and appointment date, accurate information about the doctor and patient is kept. The doctor and the patient both have IDs and passwords to access the server. In addition, the drug data and patient temperature are kept on the server for the convenience of the doctor. The doctor can if necessary,

change the patient's prescription, which will also be notified by email. In addition, in the event of an emergency, the doctor should take immediate action.

Paper 4:

Prof. R.M Gawande, Miss Shinde Gayatri, Miss Supekar Pragati, Miss Shevkar Vaishali,
Mr Shevkar Akash , "**Smart Medicine Box for Old Age People**", IJARIIIE- ISSN(O)-Vol-5 Issue-1 2019.

Proposed Work:

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 Smart Medicine 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 Smart Medicine Box will track their medication and inform patient to take right dosage of right medicine at the right time.