Abstract

The focus of this paper is to implement an intelligent health care system based on internet of thing (IOT) for the measurement of the vital signs like pulse rate, temperature, spo2, ECG, using (ESP32 div kit v1) for wireless wearable sensor controller and raspberry pi 3 as a server. With the system proposed, the doctor can save work time to visit the patients that responsible about them and any facilitates monitoring the huge number of patients. The WI-FI technology is utilized as a communication tool to allow transmission the data remotely. The data of patient are sent to the web server to be stored in the database and view the data on the web page anywhere and anytime using smart devices and alert the doctor to any abnormal state. This work with the intelligent health care system provide an efficient medical service ,by collecting and recording the informant that include heart rate, ECG, temperature and spo2 that enable the doctor to monitor his patient with flexibility and confidence .

References


Design Health care system using Raspberry Pi and ESP32


Index Terms

Computer Science
Circuits and Systems

Keywords

Healthcare, IOT, raspberry pi, ESP32, ECG, MQTT, WSN, medical wearable electronic, AD8232, patient monitoring, Node-Red.