

## ABSTRACT

Heart rate monitoring is a vital aspect of maintaining heart health. People from different age groups have different ranges for maximum and minimum values of heart rate, the monitoring system must be compatible enough to tackle this scenario. An IoT based system has been implemented that can monitor the heartbeat from the output given by a hardware system consisting of an Arduino and pulse sensor. Further, an alert system is added which is executed if the heartbeat goes below or above the permissible level given in the devised algorithm. The alert message is given through system database. By using this prototype the doctors can access the heartbeat data of the patient from database. The nurses or the duty doctor available at the hospital can monitor the heart rate of the patient in the OLED monitor through the real-time monitoring system.