

ABSTRACT

The speed and proper handling of patients are very important on the medical treatment, delays in handling or misdiagnosis patient by doctor will have fatal consequences for the patient's condition. By considering the effectiveness and convenience for nurses and doctors in carrying out the process of monitoring a patient quickly and accurately, a monitoring system are made by making the pulse and temperature of body as the main indicators to determine the condition of a patient. Measurement of the pulse with BPM units (Beats Per Minute) using the SEN-11574 pulse sensor module and the AD8232 ECG module along with 3 diode sensors which is will be attach to the part of body, while for measuring the temperature of body using the MLX90614 temperature sensor with units of Celsius, the value both of sensor readings will be uploaded and saved to the database using ESP8266 NodeMCU v3. Data readings from both sensors will be displayed on a website and LCD as the interface between nurses and patients' families to monitor the process.

Keywords: Heartbeat Rate (BPM), ESP8266 IoT Project, ECG AD8232 Project