

## HEALTHCARE MONITORING SYSTEM

### OBJECTIVE OF PROJECT:

The basic objective of the project is to monitor the health of a individual based upon the basic health parameters.

(heart rate,spo2,ECG,temp,posture)

### ALGO:

Start system and initialize STM32 + all sensors + IoT module.

Select sensor (ECG, motion/orientation, or temperature).

STM32 reads and processes data from the selected sensor.

### **Check for abnormalities:**

ECG: heart rate too high or low

MPU6050: fall or bad posture

TMP117: fever or low body temp

If abnormal → trigger alert (buzzer/LCD) + send data to IoT cloud/app.

If normal → continue monitoring and log data.

Loop continuously for real-time monitoring.

#### PRICE:

MPU6050: Rs 180-400

TMP117: Rs 160-350

MAX30102: Rs 330-633

AD832: Rs 630

#### APPLICATIONS OF THE PROJECT:

- 1) Can be used to monitor after health of the athlete player (especially ECG)
- 2) Portable ECG
- 3) Post-operative care: Used to monitor patients after surgery to ensure a stable recovery.
- 4) Elderly and disabled care: Helps monitor the health of the elderly or disabled individuals.

#### Why this project are selected ?

1. condition :