Internet of Things, CS 244P
Project Title: Basic Health monitoring system, using IOT

Team members:

TEAM #7
1) Shefali Gupta (Student ID: 57806943)
2) Smitha Balagurunatan (Student ID: 58328870)
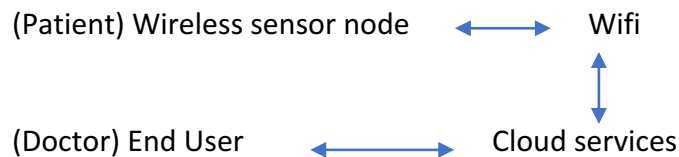
Introduction:

We plan to design a basic health monitoring system to record health related data of patients, who might be busy in their daily schedules and do not get enough time to go for regular health checkups. This system is created on an IOT platform. It captures patient's location and health parameters like heart rate, temperature, sweating(moisture) and electrical activity of the heart over a period of time(ECG). The data captured is sent to the cloud server, from where the doctor in charge can access it. The system also has the feature of glowing an LED or ringing a buzzer in case certain health parameters become abnormal. Upon receiving this alert, the doctor can use the location provided by our GPS sensor and immediately attend to the patient.

Architecture:

WIFI Wireless protocol
Sensor-Cloud (Architecture 2)

(Patient) Wireless sensor node   ←→   Wifi

(Doctor) End User   ←→   Cloud services

Components Required:

S.No	Name	Qty.
1	Arduino UNO	1
2	Wifi Module – ESP8266	1
3	Temperature sensor	1
4	Humidity and temperature sensor- RHT03	1
5	Biomedical sensor pad (10 pack)	2
6	Adafruit Ultimate GPS Breakout	1
7	Sparkfun Accelerometer LSM6DS3	1