An Android Based Smart Wheelchair with Patient Health Monitoring System.

About This Project:

The project concentrates a selective section of An Android Based Smart Wheelchair with Patient Health Monitoring System. Several patient monitors are available in the market. This project attempts to design and implement patient monitoring and real time feedback mechanism, equipped with wireless transmission via Bluetooth & Wi-Fi. Using Bluetooth for external correspondence is proposed. The proposed system is likely to be efficient, economical, easy to use, and portable, have wide application potential due to flexibility in the design and software. The main objective of this project is to design and construct Advance Patient Monitoring System .This is the purpose of informing the doctor about the physical condition such as Pulse, temperature , Movement, etc of the patient in IOT.Some Sensor such Pulse, temperature, Motion etc as with disposable attaches directly to the patient body . The pulse sensor will conversion heart beat to electric signal. This device always use by trained doctor and medical assistances. In additional, the plug-in for the cable is a male sound plug which will make the cable to easily removed or inserted into the amplifier board. The sensor assembled on an arm pulse and a leg pulse. All of every sensor electrodes have methods to assemble in body. So, training and tutorials are needed for user. You can choose type of electrode to measure heart beat. This project attempts to design and implement patient monitoring and real time feedback mechanism, equipped with wireless transmission via GSM or IOT System.

Block Diagram:

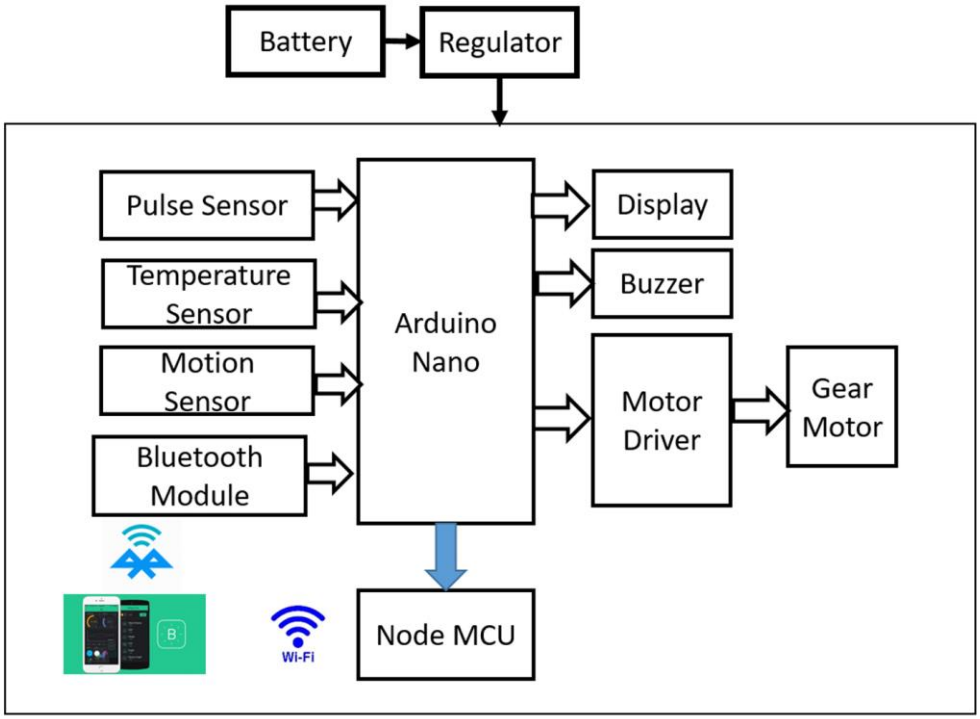

Figure: Block Diagram of An Android Based Smart Wheelchair with Patient Health Monitoring System.

Required Instrument:

- Node MCU.
- LCD Display 16*2.
- Temperature sensor DHT11.
- Motion Sensor.
- Pulse Sensor.
- Bluetooth Module.
- Arduino.
- Motor Driver.
- Gear Motor.
- Buzzer.
- Battery.
- Regulator IC.

Advantages:

- Informing the doctor about the physical condition of the patient in remotely.
- Automatic stimulation system as a first aid treatment for a patient.
- Saves time and physical work.
- This project is easy to use.
- Cost effective.
- Android Control.
- IOT Monitoring.
- Android Control Chair Mobility.

Applications:

The project has a major application in the

- Hospital and Clinic.
- Personally use in home.

N.B: *Any modification of this project can be done as per your requirement. We will make the project according to your needs. Contact us with your any innovative engineering projects idea. We will help you to implement your project.*