

Paralysis Patient Health Care Monitoring System Using IOT

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Abstract -The noble aim behind this project is to style a health care system which is able to be useful for unfit and mute individuals . A Dumb individual at some point of the planet uses gesture primarily based communication for the correspondence. The progression in established framework will provides a area to arrange and build up an interpreter framework to alter over the communication via gestures into discourse. As linguistic communication primarily employed by deaf however conjointly employed by those who will hear having drawback in speaking therefore the approach utilized in this analysis is vision primarily based. The glove uses square measure fitted with flex device in 3 dimensions to gather the information from each position of figure and hand motion to differentiate and distinguish every and each word from a specific sign. heart failure is that the major reason for death among each gender men and girls. However, its incidence can not be continually foreseeable. The most typical device wont to observe heart connected problems is AN cardiogram machine that is reliable to traditional user, however isn't mobile enough to be used as a monitor for a heart patient endlessly. This project is to develop AN algorithmic program for police work a heart failure and if therefore, then to alert doctors, members of the family and emergency services .Hence here we tend to introduce a wise health care system which is able to pay attention of issues and want of unfit and mute individuals and can conjointly facilitate in detection of heart failure.

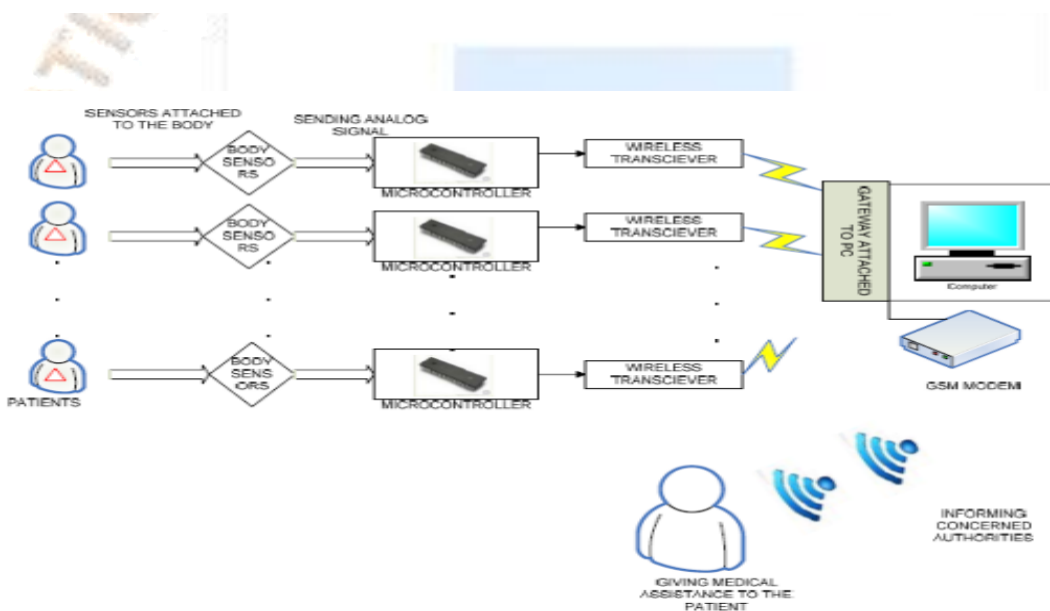
I .INTRODUCTION

Paralysis is that the inability to maneuver muscles on your own and with purpose.It is temporary or permanent. The most common causes square measure stroke, twine|medulla spinalis|neural structure|funiculus} injury, and MS|sclerosis|induration|degenerative disorder}. disfunction is an entire loss of movement referred to as plegia, or a big weakness known as paralysis. disfunction is most frequently caused by injury within the system, particularly the spinal cord. different major causes square measure stroke, trauma with nerve injury, acute anterior poliomyelitis, encephalopathy, peripheral pathology, Parkinson's illness, ALS, botulism, birth defect, multiple sclerosis, and Guillain–Barrésyndrome.For example, monoplegia/monoparesis is complete loss of movement or weakness of 1 limb. Hemiplegia/hemiparesis is complete loss of movement or weakness of arm and leg on same facet of the body.

Paraplegia/paraparesis is complete loss or weakening of each legs. Tetraplegia/tetraparesis or quadraplegia/quadraparesis is complete loss or weakness of each arms and each legs.

II Literature survey

Daily monitoring of health condition at home is important for an effective scheme for early diagnosis, treatment, and prevention of lifestyle-related diseases such as adiposis, diabetes and cardiovascular diseases. While many commercially available devices for home health care monitoring are widely used, those are cumbersome in terms of self-attachment of biological sensors and self-operation of them. From this viewpoint, we have been developing a non-conscious physiological monitoring system without attachment of any sensors to the human body as well as any operations for the measurement. We developed some devices installed in a toilet, a bath, and a bed and showed their high measurement precision by comparison with simultaneous recordings of ordinary biological sensors directly attached to the body. To investigate that applicability to the health condition monitoring, we developed a monitoring system in combination with all the monitoring devices at hospital rooms and previously carried out the measurements of patients' health condition. Further, in this study, the health conditions were measured in 10 patients with cardiovascular disease or sleep disorder. From these results, the patients' health conditions such as the body and excretion weight in the toilet, the ECG during taking the bath and the pulse and respiration rate during sleeping were successfully monitored in the hospital room, demonstrating its usefulness for monitoring the health condition of the subjects with cardiovascular disease or sleep disorder.



III .EXISTING SYSTEM

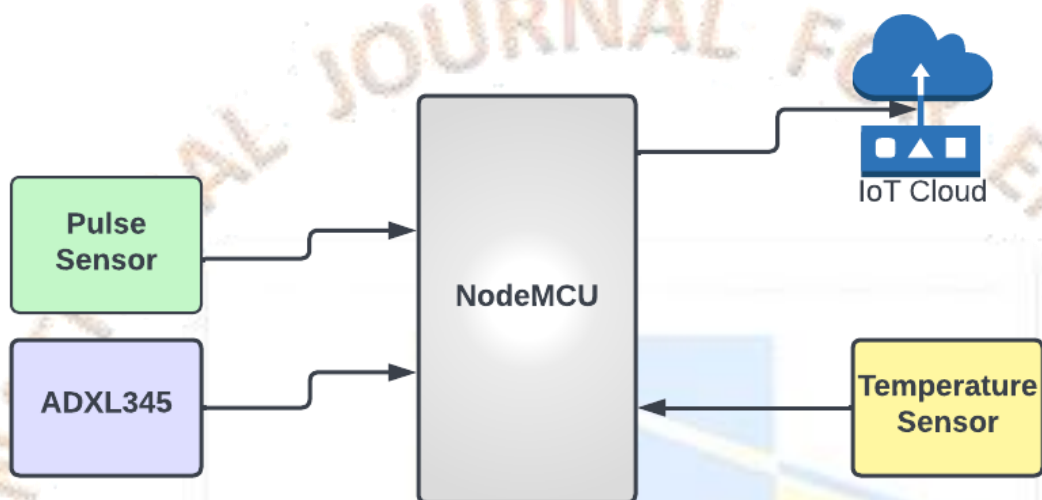
In the existing system, we have a tendency to use active network technology to network numerous sensors to one PMS. Patients' numerous essential parameters are unendingly monitored via single PMS and reported to the Doctors or Nurses attending for timely response just in case of essential things. The sensors are connected to the body of the patients while not inflicting any discomfort to them. During this PMS we have a tendency to monitor the necessary physical parameters like temperature, heart beat rate and motion victimization the sensors that are without delay out there. Thus, the analog values that are perceived by the various sensors are then given to a microcontroller connected to that. The microcontroller processes these analog signal values of health parameters on an individual basis and converts it to digital values victimization ADC device. Now, the digitalized values from quite one microcontroller are sent to the Central PMS. Every of the sensors connected microcontroller with a transceiver can act as a module that has its own distinctive ID. Every module transmits the information wirelessly to the entry connected to the laptop of the Central PMS. The entry is connected to the laptop i.e. Central PMS that is settled within the centre, is capable for choosing totally {different|completely different} patient IDs and permitting the entry to receive different physical parameter values the patient mere by the ID. The code designed victimization Graphical program (GUI) will care for totally different physical parameters of every patient, consecutively with a mere quantity for every patient. At any time, any

of the doctors or nurses will go surfing the Central PMS and check the history of the ascertained essential parameters of any of the patient connected to the network

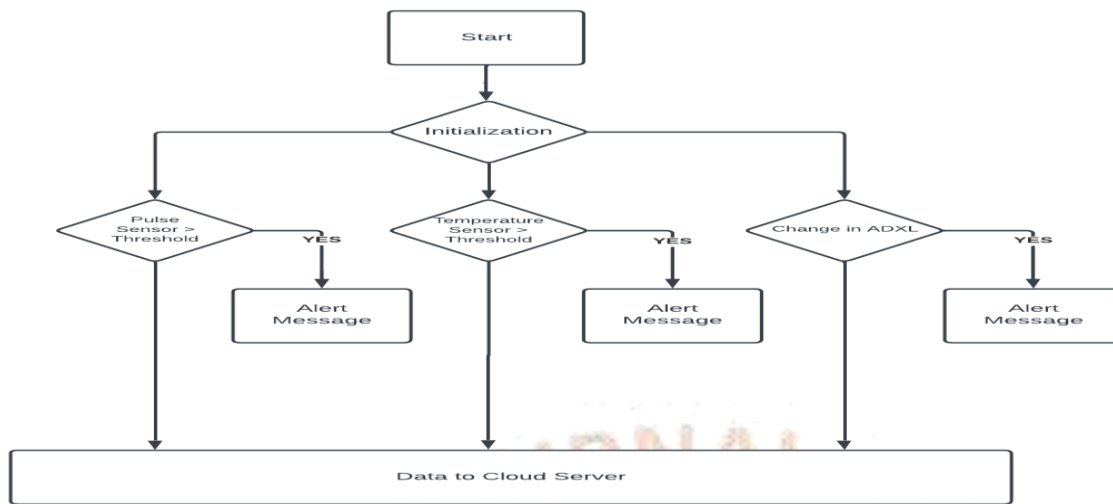
IV. PROPOSED SYSTEM

The main objective is to design a Patient Monitoring System with two-way communication i.e. not only the patient's data will be sent to the doctor through email on emergencies, but also the doctor can send required suggestions to the patient or guardians through Call or Emails. And Patient or guardian can able to track patient's health at any point in time through IoT Application which would enable to send medical services in case of an emergency for non-bed ridden patients.

V. SYSTEM ARCHITECTURE



Block Diagram



Flow Diagram

VI. CONCLUSION

By taking an overall survey, it can be found that there are many problems existing for the paralyzed people such as paralysis in their leg, hand, vocal tract and also in other body parts. There are systems existing for their comforts individually. But, this system will help to monitor all the factors that cause paralysis and intimate that to the caretakers so that treatment can be given before the paralysis reaches a high level.

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