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IoT Based HealthCare Monitoring System Using Raspberry pi

Megha Devaramani, Usharani.G

School of Electronics and Communication Engineering, REVA University

ABSTRACT

Communication technologies and advances in the information have led to the emergence of IoT. Now a days, IoT plays an very important role not only in communication, but also in monitoring, recording, storage and display the result. Hence the new trend in Healthcare communication method using IoT is adapted. The main objective of the project is to focus on the development and implementation of healthcare monitoring system. This system monitors the health parameters and transmits the data through a wireless communication, which is then transferred to a network via Wi-Fi module. The data can be accessed anytime promoting the reception of the current status of the patient. In case any abnormal behavior recognized, the care taker, as well as the doctors are notified through a message or buzzer. Security plays an important part, in order to design an efficient remote monitoring system. Authentification, privacy and security of patient details handled by cloud computing and Wi-Fi.

I.NATURE OF THE STUDY

Health is a primary element of human need for a better life. Unfortunately, for some reasons like existence of large gap between rural and urban areas, unavailability of the doctors and care takers during the hardest time of the patient, etc. have lead to a concern about the Global Health Issue. Recently, the patient monitoring system is one of the major advancements because of its improved technology. Fusion of technology and medical science is moving at a warp speed. So the medical representatives are also taking advantage of these technologies to achieve that state. Here comes the world of IoT. IoT is connecting devices to the internet using various sensors and a suitable platform. These microchips can be placed on health monitoring equipments. The information collected by microchips is then sent to remote destinations as machine to machine, machine to man, man to machine or machine to mobile. This paper proposes a health monitoring system which is capable of detecting multiple parameters such as temperature, heartrate, ECG and then transmitting the information to server. This is a fast, energy efficient and flexible method for monitoring health issue.

II.APPLICATIONS

1. Patient Monitoring using wireless sensor network has a much greater potential in present as well as in future in order to achieve a better performance in healthcare services.
2. Disable patients who find it really difficult to go to doctors on daily basis or for those patients who need continuous monitoring from the doctor.

III.SOCIAL RELEVANCE

On survey it was found that, the final model will be well equipped with the features where doctor can examine his patient from anywhere and anytime. Emergency scenario to send an emergency message to the doctor with patient's current status and full medical information can also be worked on.