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IoT Based Remote Healthcare Monitoring System

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Abstract: *With an improvement in technology and reduction in size of the sensors, there have been attempts to utilize the new upcoming technology in various areas to improve the quality of human life. The Main area of the research that has seen a take up of the new technology is the healthcare sector. The people call for demand of healthcare services find it very expensive this is particularly true in developing countries like India. As a result, this project model is an attempt to solve the healthcare problem currently our society is facing. The main aim of the project was to design a remote healthcare monitoring system. It's comprised of three main parts. The first part is, detection of patient's vitals using different sensors, second part for sending data to cloud storage and the last part was providing the detected data for remote viewing to relatives and doctors. Remote viewing of the data enables the doctor and guardian to monitor a patient's health progress far from home and hospital premises. The Internet of Things (IOT) concepts have been extensively used to inter connect the available medical resources and give smart, effective and reliable healthcare service to the patients. Health monitoring for active and maintained living is one of a paradigms that can use the Internet of Things advantages to enhance the patient's lifestyle. In this project, we have presented an IoT architecture customized for healthcare applications. The aim of the project was to design a Remote Health Monitoring System that can be made with easily available sensors for making it affordable if it were to be mass produced. Hence the proposed architecture collects sensor data through Arduino microcontroller and send it to the cloud where it is processed and analyzed for a remote monitoring. Reactions based on the analyzed data can be sent back to doctor and guardian through SMS alerts in case of any emergencies.*

Keywords: IoT, Health Monitoring, Smart Healthcare

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