Title: Cloud-Based Smart Healthcare Monitoring and Management System

Abstract:

The rapid growth of population, increasing prevalence of chronic diseases, and limited availability of healthcare resources have exposed significant challenges in traditional healthcare systems, which primarily rely on hospital-centric and manual processes. In many real-world scenarios, delayed diagnosis, lack of continuous patient monitoring, fragmented medical records, and limited access to healthcare services, especially in rural and remote areas, negatively impact patient outcomes and increase healthcare costs. Addressing these challenges is essential to improve healthcare efficiency, accessibility, and quality of care. This project proposes a Cloud-Based Smart Healthcare Monitoring and Management System that leverages cloud computing technologies to provide centralized, secure, and scalable healthcare services. The primary objective of this work is to enable continuous monitoring of patient health data, efficient management of electronic health records, and remote accessibility for healthcare professionals while ensuring data security and system reliability. The proposed methodology involves developing a cloud-hosted web application with secure authentication, role-based access control, patient profile management, health data monitoring, appointment scheduling, and report generation. Patient health data is stored on cloud infrastructure to ensure high availability and scalability. The expected outcome of the system is improved healthcare service delivery through real-time monitoring, early detection of abnormal health conditions, reduced operational costs, and enhanced patient engagement, making the solution suitable for real-world deployment in hospitals, home healthcare services, and rural medical centers.

Keywords:

Cloud Computing, Healthcare Monitoring, Healthcare Management System, Electronic Health Records, Remote Patient Care

DANDURI. SURENDRA

2401600165

UNDER THE GUIDANCE OF

Dr.B.Krishna