Enhancing Medical Data Privacy and Security in Wireless Networks via Smart Card and QR Code

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Abstract: *In the present generation, healthcare has become the foremost imperative sector in today's medicinal eon. The massive private documents, responsive details are kept in a scalable manner. The healthcare industry has become more competitive in the digital world. As a thriving industry, it's challenging for doctors to understand the moving technology in the healthcare sector. This also deals with the patient's nursing and maintains their portfolios. The overview of the project depicts a role played by the doctors, patients, management, and resource suppliers by implementing cloud- technology in the healthcare industry. The platform was designed and developed for user-friendly interactions where patients can connect with the management and doctors at any corner of the world. The peculiarity of the project was to withdraw the pen-paper method followed by the sector for ages. Cloud computing (CC) has played a vital role in the project that helped and managed to store, secure large data files. The features while operating the system were QR codes, generating e-mails, SMS text, and free-trunk calls. This approach assists on track with each individual's health-related documents, henceforward approving with the doctors to access the knowledge throughout the flow of emergency and firmly access policy. Besides the facts, it rescues the lifetime of the patients and mutually helps the doctors figure it out comfortably. The utilization of mobile aid applications may be a dynamic field and has received the attention of late. This development provides mobile technology additional enticing for mobile health (m-health) applications. The m-health defines as wireless telemedicine involving the utilization of mobile telecommunications and multimedia system technologies and their integration with mobile health care delivery systems. As well as human authentication protocols, whereas guaranteeing, has not been straightforward in light-weight of their restricted capability of calculation and remembrance..*

Keywords: QR Code Technology, QR (Quick Response) Code, Healthcare, Health Monitoring, Mobile health (m-health), Medical Records, etc

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