

Bluetooth Low Energy remote health monitoring system

Bui Hong Mai

Abstract: In the context of the development of mobile technology and smart healthcare, remote health monitoring systems using Bluetooth Low Energy (BLE) have become an important solution to improve the quality of healthcare. This project aims to build a remote health monitoring system that can collect and transmit medical data via BLE, supporting the remote tracking of patients' health conditions. The research methodology includes requirement analysis, system architecture design, deployment of BLE applications on mobile devices, and experiments to verify performance. The project is expected to contribute to the development of IoT technology in the medical field, while creating a practical solution that can be widely applied.

Keywords: Health monitoring system, Bluetooth Low Energy, IoT (Internet of Things), Smart healthcare, Mobile technology