

Research on designing a wireless network monitoring system for body temperature, heart rate, and blood oxygen saturation parameters

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Abstract: This is a study on the design and implementation of a Wireless Health Monitoring System (WHMS) to collect and analyze body temperature, heart rate, and blood oxygen saturation parameters. The problem context stems from the need to enhance remote health monitoring for patients, especially those with chronic diseases. The objective of this study is to build a system capable of collecting data through wireless sensors, processing and transmitting information to a receiving device for analysis and timely alerts. The research method combines experimentation and application deployment on modern platforms such as IoT and Big Data Analytics. The expected outcome of this project is to create a system with high functionality, efficiency, and ease of use, contributing to improving the quality of healthcare.

Keywords: Health monitoring system, wireless sensors, IoT, Big Data Analytics