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System for Tracking and Monitoring Soldier Health

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Abstract: *This study presents the development and implementation of an IoT-based military health monitoring system that incorporates LoRa communication, Arduino, ESP8266, GPS, heart rate sensor, DHT11 sensor, and blood pressure sensor. The system is designed to monitor current health data such as heart rate, body temperature, and blood pressure, and to provide location tracking to ensure safety and nutrition. It strengthens the nerves of soldiers in remote areas and in the air. The system can seamlessly transmit health data to the command center by utilizing wireless communication and cloud-based data analytics, facilitating the timely provision of health services. Blynk API integration improves the user experience by providing insights and notifications at important health moments. Test results validated the effectiveness of the system in monitoring and managing the health status of soldiers, demonstrating its potential for efficiency and effectiveness in military use*

Keywords: LoRa communication

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