Project Proposal

Project-Area: Patient Health Monitoring System (PHMS)

Team Details:

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Introduction:

With the growing demand for better healthcare services, continuous patient monitoring has become essential, especially for individuals with chronic conditions or those recovering from surgery. The Patient Health Monitoring System (PHMS) is an IoT-based solution designed to remotely monitor patients' vital signs in real-time. This system enables healthcare providers to track patients' health status continuously and take prompt action if necessary.

Project Overview:

PHMS integrates wearable devices equipped with sensors that monitor vital signs such as heart rate, blood pressure, and body temperature. Data from these devices is transmitted to a cloud-based platform where healthcare professionals can analyze and monitor it in real-time. The system generates alerts for abnormal readings, enabling timely interventions. which encourages proactive health management.

Objectives:

Real-Time Monitoring: Continuously track patients' vital signs using IoT-enabled wearable devices.

Early Detection: Quickly identify potential health issues through real-time data analysis and alerting healthcare providers.

Improved Patient Care: Enhance patient outcomes by enabling timely interventions and reducing hospital readmissions.

Future Development:

Future enhancements of the PHMS will include the integration of advanced machine learning algorithms to predict potential health risks before they occur. PHMS will also explore blockchain technology for secure and transparent patient data management.

Conclusion:

PHMS represents a significant advancement in healthcare, offering continuous, real-time monitoring of patients' vital signs. By leveraging IoT technology. The proposed future developments will further improve the system's capabilities, making it an indispensable tool in modern healthcare.