MGM's College of Engineering, Nanded
DepartmentofComputerScience &Engineering
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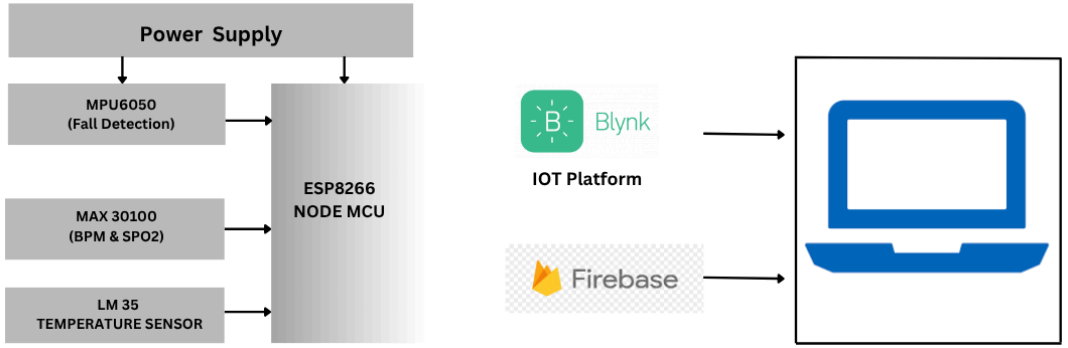
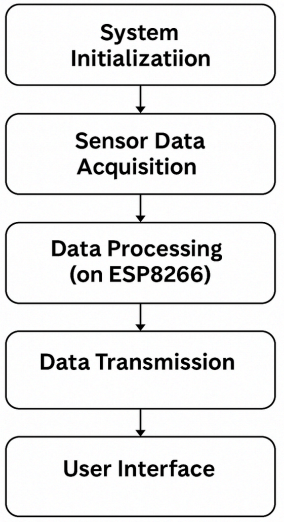
Health Monitoring System Using IOT

Introduction: This project presents an IoT-based health monitoring system using the ESP8266 NodeMCU. It continuously tracks vital signs like heart rate, SpO_2, temperature, and fall detection. Data is sent in real time to mobile and cloud platforms for remote access. The system enhances patient care by providin quick alerts during emergencies. It is especially useful for elderly care and home-based health monitoring.

ModelArchitecture:



Methodology:



Conclusion: The proposed IoT-based health monitoring system offers a reliable and efficient way to track vital signs in real-time. By integrating sensors with the ESP8266 and cloud platforms, it enables quick alerts and remote access to patient data. This system is especially beneficial for elderly care and managing chronic conditions. Its low cost and ease of use make it practical for home-based healthcare.

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