

# **HYPOTHERMIA MONITOR FOR NEW BORN BABIES**

## **PROBLEM STATEMENT**

Neonatal hypothermia presents a life-threatening hazard to newborns, especially preterm and term infants, in the absence of sustained warmth. A substantial challenge for healthcare providers and parents lies in the lack of consistent and precise temperature monitoring beyond the delivery room. The absence of robust monitoring protocols heightens the vulnerability of newborns, underscoring the urgent requirement for ongoing temperature surveillance. This continuous monitoring is essential to mitigate the risk of hypothermia during the critical early hours post-birth, ensuring the well-being of neonates.

## **TEAM MEMBERS**



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## **SOLUTION**

Presenting an innovative temperature-monitoring solution, a groundbreaking sticker embedded with cutting-edge technology is introduced. This high-tech sticker features a nano temperature sensor that accurately detects body temperature changes, relaying real-time data to a microcontroller. Serving as the brain of the system, the microcontroller orchestrates a RGB LED light, dynamically displaying colors to signify varying levels of hypothermia. Designed for families, this compact and user-friendly technology provides a proactive tool for monitoring loved ones' well-being, leveraging advanced sensor and LED technology to enhance health awareness and enable timely responses to temperature fluctuations.

