



INTRODUCING KOKRO

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Kokro: The Smart Baby Cradle

"Kokro" is a revolutionary baby cradle designed to simplify childcare and provide comfort for both babies and parents. This innovative cradle integrates cutting-edge sensors and intelligent automation to ensure the well-being of the baby while reducing parental stress.



WHY??

"Imagine this: It's **2 AM**, and a parent wakes up to their **baby crying**. They rush over, only to find the baby has **been lying in a soiled cradle for hours**. The room feels humid, the air stuffy, and the baby is inconsolable. This isn't just a single night—it's **a daily reality for many parents**. The stress, exhaustion, and constant worry can feel overwhelming."

"That's why we created Kokro ; a smart cradle that detects, soothes, and monitors, giving parents peace of mind and ensuring their baby's comfort and safety around the clock."



Key Features:

- **Stool and Pee Detection**

Integrated rain sensors detect wetness caused by stool or pee, immediately notifying parents to maintain the baby's hygiene and prevent discomfort or rashes.

- **Environmental Monitoring**

Equipped with a DHT sensor to track temperature and humidity, and an MQ-135 sensor to monitor air quality, ensuring a safe and healthy environment for the baby.

- **Smart Alerts for Caregivers**

Real-time notifications and alerts are sent to caregivers via a connected system, ensuring they stay informed about the baby's needs at all times.

- **Energy Efficiency and Safety**

Designed for low power consumption and equipped with safety mechanisms to ensure reliable and uninterrupted operation, even during power outages.

PROBLEM SOLVED

1

DELAYED RESPONSE TO HYGIENE NEEDS:

Soiled diapers or wet bedding can cause rashes and infections if not addressed promptly.

2

UNHEALTHY ENVIRONMENTAL CONDITIONS:

Babies are highly sensitive to temperature, humidity, and air quality, which can affect their health and comfort.

3

DIFFICULTY SOOTHING THE BABY:

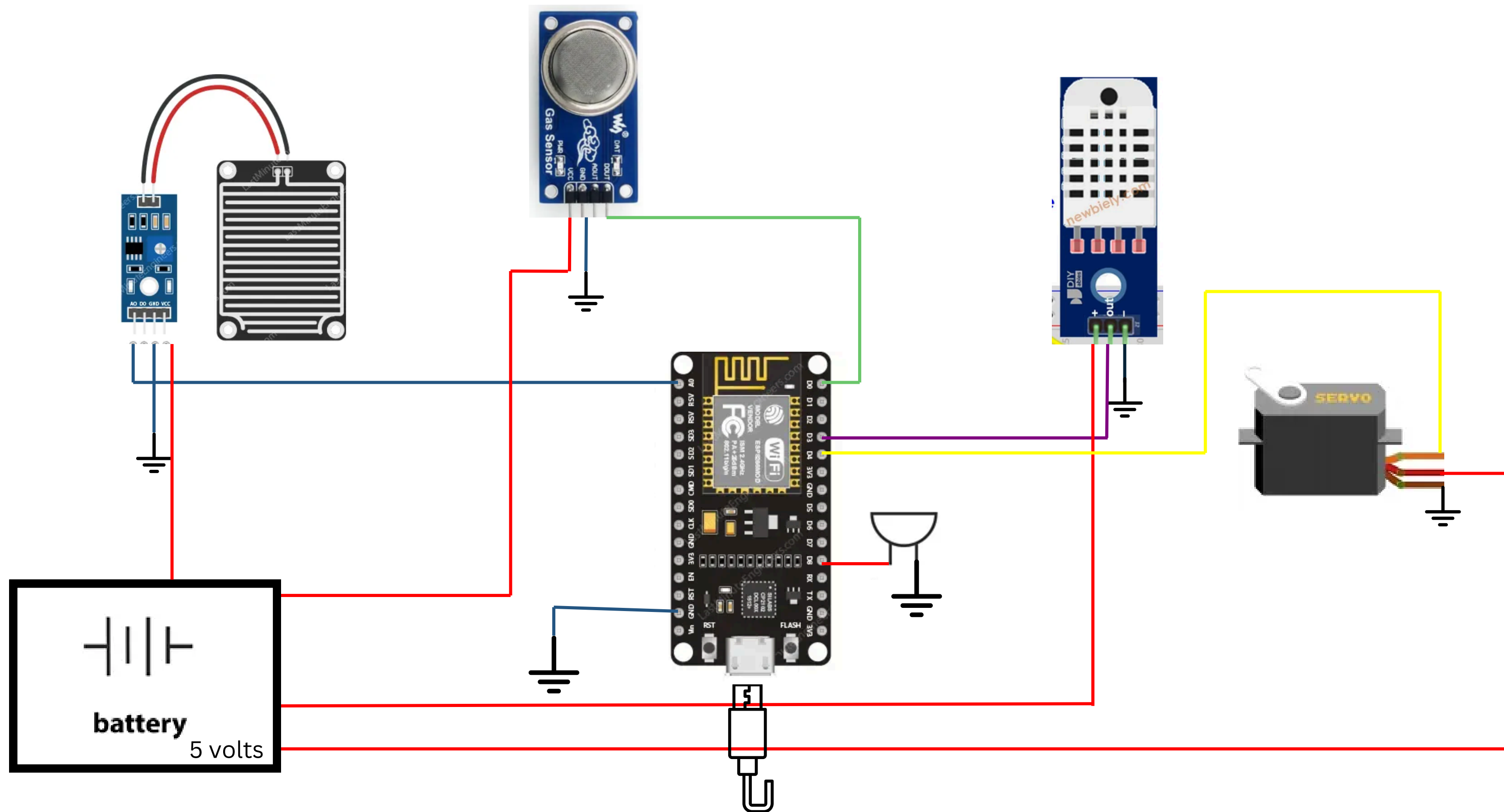
Parents may not always be able to immediately respond to a crying baby, causing distress for both the infant and the caregivers.

4

PARENTAL EXHAUSTION:

The constant need for attention can lead to fatigue, burnout, and stress for parents.

Circuit Diagram





Future Work?



Thank You