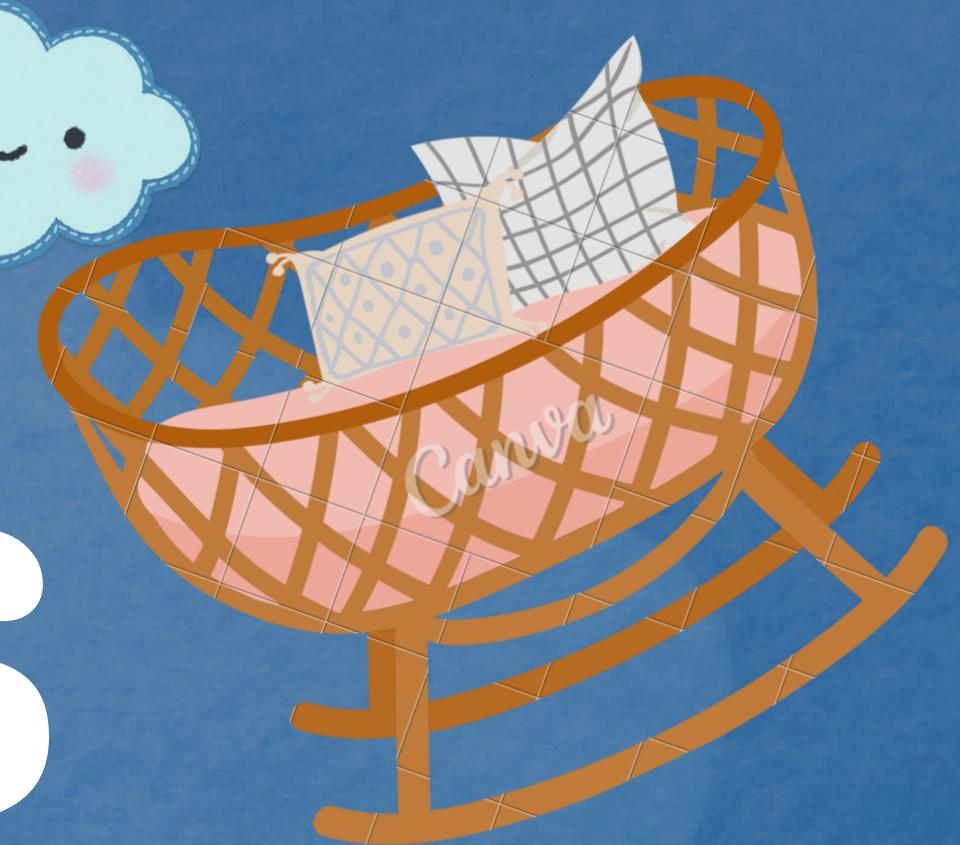


# A Baby's World



# Smart Baby Cradle

22R11A05D0 - P. Varshita

"A cradle is the safest place, where dreams begin and hearts rest."

# Introduction

Smart cradle system is an innovative IoT-based project that aims to provide a more efficient and effective way to care for infants.

It is an innovative solution designed to provide comfort, safety, and convenience for both babies and parents. Equipped with advanced sensors and smart features, this cradle ensures comfort and safety

# Problem statement

In today's fast-paced world, parents face the challenge of ensuring their babies sleep safely and comfort.

Traditional baby cradles, do not offer advanced monitoring or automation features that can enhance the baby's sleep experience and provide peace of mind to parents.



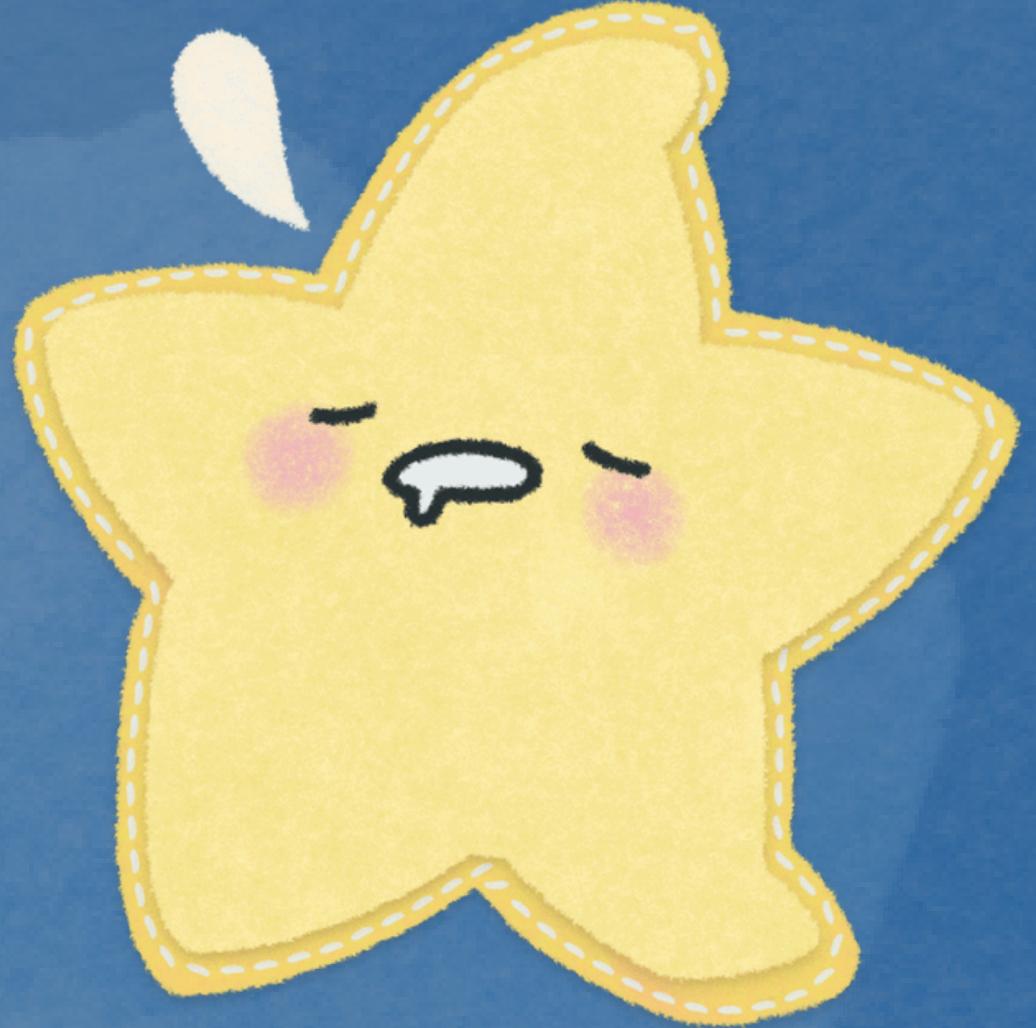
# Proposed System

The smart baby cradle ensures the safety and comfort sleep while tracking the temperature, humidity, movement of the swing .

Our baby cradle also alerts the parents whenever the baby pees.

A Smart Baby Cradle, integrated with IoT (Internet of Things) technology, aims to solve these issues by offering an automated, responsive, and data-driven approach.

# IOT Components



- ESP32
- DHT Sensor
- Moisture Sensor
- Sound Sensor
- Relay Module
- Servo motor
- DC Fan

# Working

The ESP32 is a low-cost microcontroller (MCU) with integrated Wi-Fi and Bluetooth.

The DHT Sensor measures the humidity and temperature .

The moisture Sensor measures the moisture percentage . It says whether the baby has peed or not.

The Sound Sensor detects when baby cries and sends notification and moves the cradle.

The Servo Motor is a motor that controls linear or rotary motion with precision.

The Relay Module is used for controlling fan

# Conclusion



With its intelligent automation and real-time monitoring capabilities, the Smart Baby Cradle reduces parental stress and improves infant sleep quality.

Its user-friendly interface and safety features make it a reliable addition to any nursery.

# THANK YOU

