Care Nest



Where Love Meets Technology

DEPARTMENT OF COMPUTER SCIENCE



NATIONAL TEXTILE UNIVERSITY



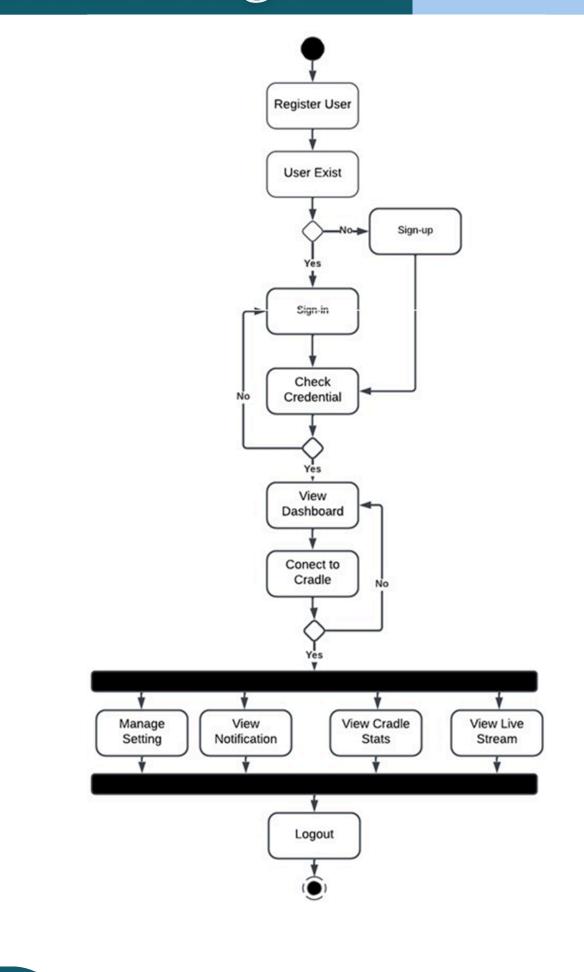
Description

Our project CareNest, uses sensors and IoT technology to monitor the baby's temperature, diaper condition, air quality, presence, and surrounding noise. The system sends real-time alerts to parents through a mobile app and plays lullabies automatically if loud noise is detected. It also streams live video, helping parents ensure their baby's safety and comfort remotely.

Main Features

- Baby Presence Detection Baby Cry Detection
- Live Video Streaming
- Air Quality Monitoring
- Lullaby Playback System
- Body Temperature Monitoring
- Real-Time Alerts & notifications
- Diaper Moisture Detection

System Diagram



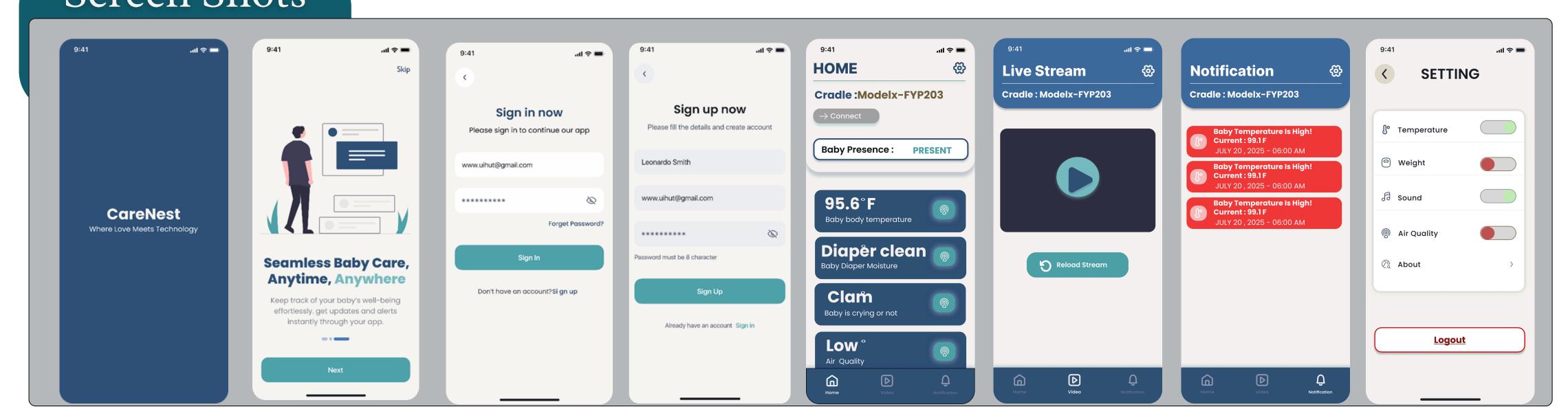
Tools & Technologies

- ESP32 Micro controller
- Android Studio
- Flutter
- ESP32-Cam
- Firebase Realtime Database

Target Market

- New and working parents
- Daycare centers and nurseries
- Families in urban or polluted areas

Screen Shots



Group Members

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FINAL YEAR PROJECT DISPLAY 2025



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