Care Nest



DEPARTMENT OF COMPUTER SCIENCE



NATIONAL TEXTILE UNIVERSITY



Where Love Meets Technology

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

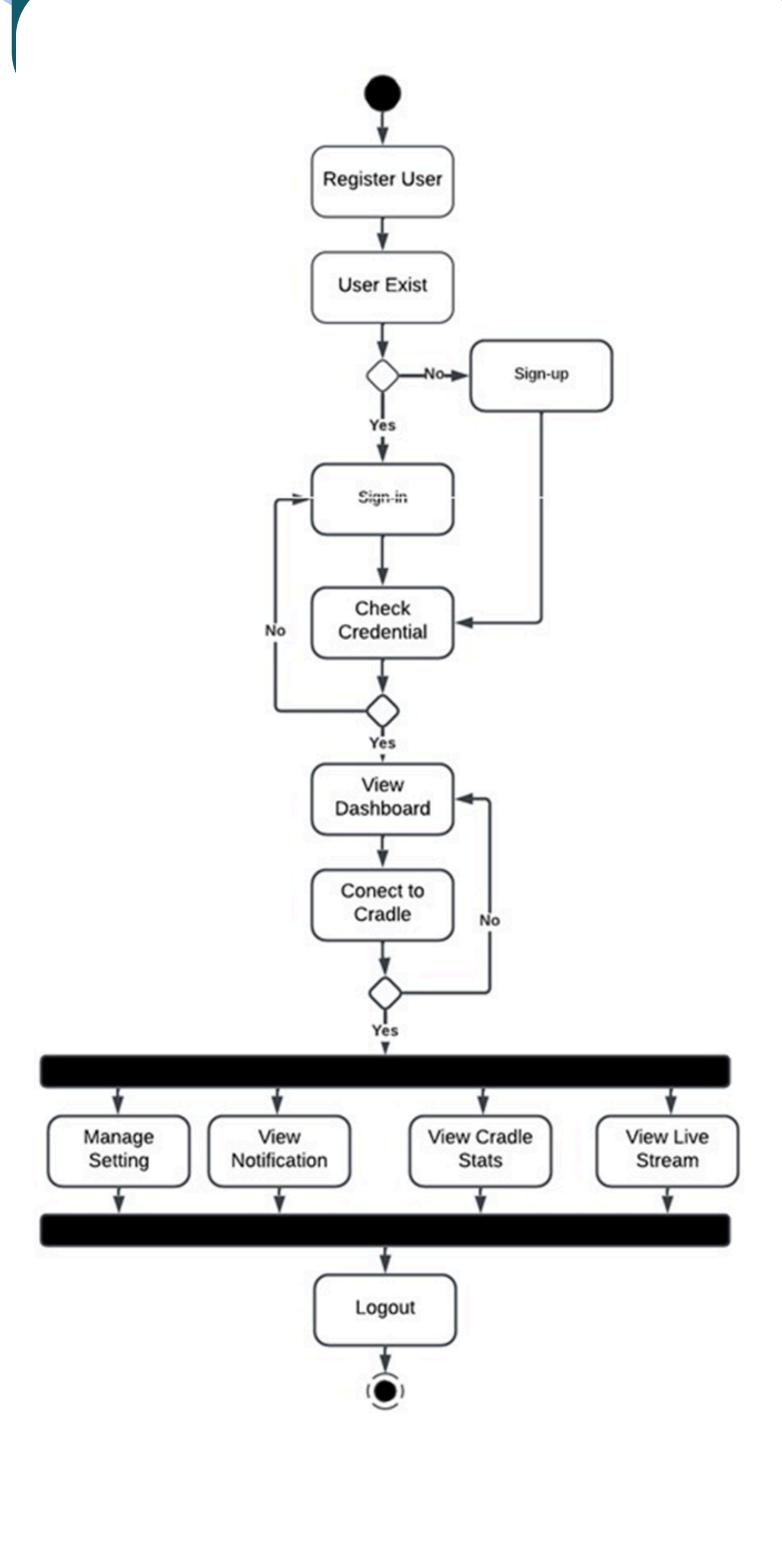
Tools & Technologies

- ESP32 Micro controller & Cam
- Android Studio
- Flutter
- Arduino IDE
- Firebase Realtime Database
- Platformio

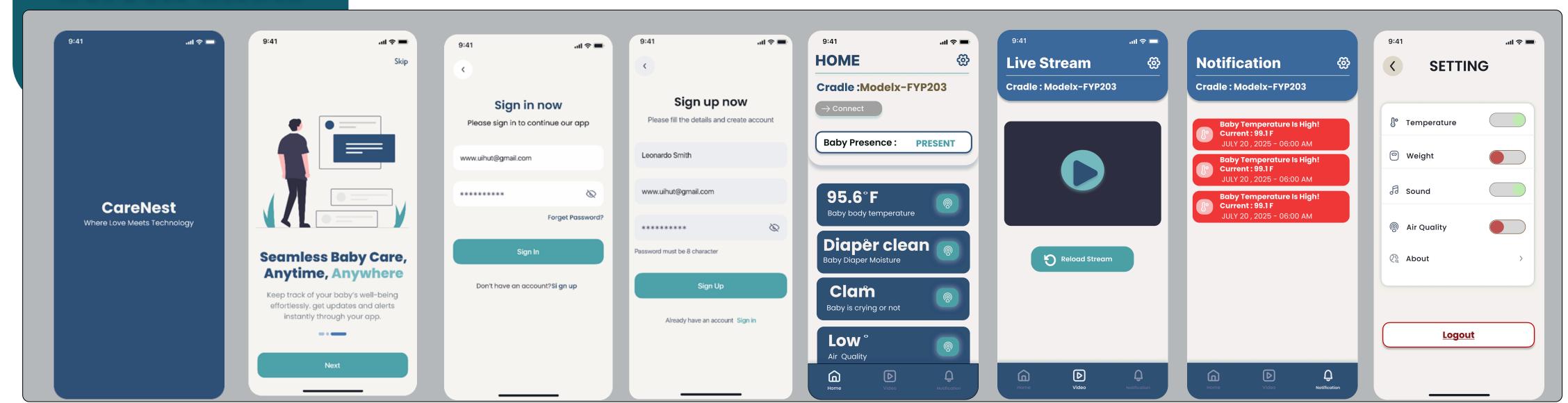
Target Market

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

System Diagram



Screen Shots



Group Members

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FINAL YEAR PROJECT DISPLAY 2025



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