**IOT**

1. Hardware

Sensor: Pressure, temperature, sound

Raspberry Pi, Arduino

Tassel: low-power WIFI or Bluetooth

LED

Speaker

Camera

2. Function:

a. Sending signal:

Send an email.

Alert on APP if there any accident

Speaker Alert when exceptive leaving (can leave in other room

b. LED for show baby weight every time put into the cradle

c. Take pic regularly to AI (e.g. Get data of wakeup--open eyes or not. Get data of baby sleep position

d. Early wakeup signs and soothes baby (define what is early wakeup

e. Monitor by camera on live

f. Monitor temp automatically and alert if the temp lower or higher than xx degree

g. Monitor crying sound

h. Monitor if infant at side sleep position or on the stomach (SIDS risk warming

i. Monitor unnormal leaving (fall, stolen

3. APP Function:

a. Dashboard:

How long have been infant stay on the cradle a day

Temperature detected recording over one day, one week

Infant Active graph and chart ( as following pic

Record pics when excepted situation

b. Remote control:

Play music to soothe infant

Shake the cradle gently

Open the camera

4. Term bank:

**SIDS risk:** sudden infant death

