Project Development Phase

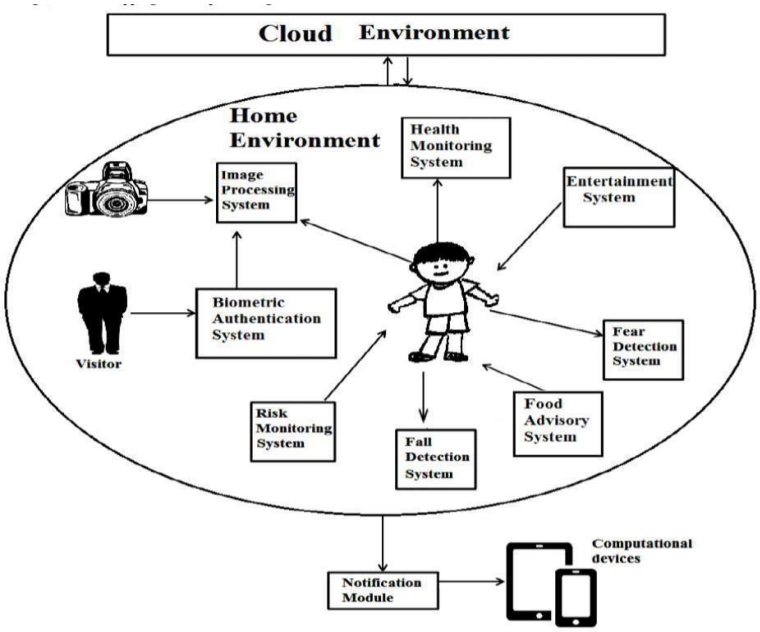
Sprint 3

Date	10 November 2022
Team ID	PNT2022TMID00975
Project Name	IOT based safety gadget for child safetymonitoring and notification
Maximum Marks	4 marks

- The Smart Mom architecture thus eases their work and helps themin taking careof the child It is also assumed that this systemis useful for children between ages five to fifteen years.
- Since, children below five years are years delicate to be taken careof by an autonomous system and children above fifteen years are grown up enough tobe taken care of by their mothers pervasively.
- Smart Mom architecture is divided into two domains namely−thecloud environment and the home environment. Each domain is subdivided into a number of modules depending upon the application system.

Notification module

The notification is responsible for sending notifications to the computing devices eitherat home or outside. The computing devicecanbe wired or wireless and may belong to either the child, the governess,doctor or the mother of the child depending upon the needed application.



Python Serial Loopback Test

```
import serial

#####Global Variables#########################################
#be sure to declare the variable as 'global var' in the fxnser = 0

#####FUNCTIONS###################################################
#initialize serial connectiondefinit_serial():
    COMNUM = 9 #set you COM port # here
    global ser #must be declared in each fxn
    usedser =serial.Serial()
    ser.baudrate = 9600
    ser.port = COMNUM - 1 #starts at 0, so subtract
    1#ser.port ='/dev/ttyUSB0' #uncomment for linux

    #you must specify a timeout (in seconds) so that the# serial portdoesn'thang
    ser.timeout = 1
    ser.open() #open the serial port

    # print port open or
    closedifser.isOpen():
        print 'Open: ' + ser.portstr
#####SETUP#######################################################
#this is a good spot to run your initializationsinit_serial()

#####MAIN      LOOP###############################################
while 1:
    #prints what is sent in on the serial port

    temp = raw_input('Type what you want to send, hit enter:\n\r')
```

```
    ser.write(temp) #write to the serial port
    bytes = ser.readline() #reads in bytes followed by a newline
    print 'You sent: ' + bytes #print to the console
    break #jump out of loop
#hit ctr-c to close python window
```

```
#adjust these values based on your location and m
TRX = -105.1621     #top right longitude
TRY = 40.0868       #top right latitude
BLX = -105.2898     #bottom left longitude
BLY = 40.0010       #bottom left latitude
```

Run the program by typing:

1. High-level language software design has long stayed in use for surrounded-systems growth.
2. Though, assemblage programming still overwhelms, mostly for digital-signal processor (DSP) based systems.
3. DSPs are frequency systems automatic in assembly language by computer operator who know the processor building inside out. The key incentive for this practice is performance, even with the disadvantages of assembly software design when linked to high- level programming.