

SPRINT - 3

Date	17 November 2022
Team ID	PNT2022TMID42666
Project Name	Smart waste management system for metropolitan cities
Points	20

Send the alert to admin with mail (using smtp)

CODE

```
import RPi.GPIO as GPIO
import yagmail
import time
import mysql.connector
TRIG=21
ECHO=20
dusbinLevelInper=0

confirmation=0

GPIO.setmode(GPIO.BCM)
GPIO.setup(TRIG,GPIO.OUT)
GPIO.setup(ECHO,GPIO.IN)
GPIO.setup(19, GPIO.OUT)

def mailsender():
    if(confirmation==3):
        mydb = mysql.connector.connect(

            host="192.168.143.95",
            user="root",
            password="mysqlpassword",
            database="IbmDataBase"
        )
        mycursor = mydb.cursor()

        confirmation=0
        sql = "SELECT * FROM dsbn WHERE dusid =1"

        mycursor.execute(sql)
        myresult = mycursor.fetchall()

        Frommailadress="from@gmail.com"
        password="myapp password"
```

```

yag = yagmail.SMTP(Frommailadress,password)
yag.send("TO@gmail.com",
        "",
        "Level of the dustbin is "+str(myresult[0][1])+
        " locations of the dustbin "+str(myresult[0][3])
        +" "+str(myresult[0][2])+""")

        print("sended successfull")
    else:
        print(confirmtion)

def DataBaseCon():

    mydb = mysql.connector.connect(

        host="192.168.143.95",
        user="root",
        password="mynewpassword",
        database="IbmDataBase"
    )
    mycursor = mydb.cursor()

    sql = "UPDATE dsbn SET dusLevel =
    "+str(dusbinLevelInper)+" WHERE dusId = '1'"
    mycursor.execute(sql)
    mydb.commit()

    print(mycursor.rowcount, "record(s) affected")

```

```
def ledblinkon():
    GPIO.output(19, GPIO.HIGH)

def ledblinkoff():
    GPIO.output(19, GPIO.LOW)

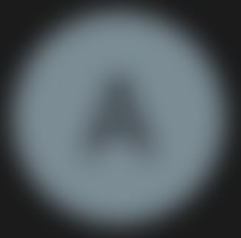
while True:
    print("distance measurement in progress")
    GPIO.output(TRIG,False)
    print("waiting for sensor to settle")
    time.sleep(0.2)
    GPIO.output(TRIG,True)
    time.sleep(0.00001)
    GPIO.output(TRIG,False)
    while GPIO.input(ECHO)==0:
        pulse_start=time.time()
    while GPIO.input(ECHO)==1:
        pulse_end=time.time()
    pulse_duration=pulse_end-pulse_start
    distance=pulse_duration*17150
    distance=round(distance,2)
    print("distance:",distance,"cm")
    time.sleep(2)

    if(distance>=60):
        dusbinLevelInper=0
        ledblinkoff()
```

```
elif(distance<=60 and distance>=45):
    dusbinLevelInper=25
    ledblinkoff()
elif(distance<=45 and distance>=30):
    dusbinLevelInper=50
    ledblinkoff()
elif(distance<=30 and distance>=10):
    dusbinLevelInper=80
    ledblinkoff()

else:
    dusbinLevelInper=100
    ledblinkon()
    confirmtion+=1
    mailsender()

DataBaseCon()
time.sleep(20)
```



anonymous@000k... 1:40 pm

To: me



From: anonymous@000k@proton.com

To: jeeva@000k@proton.com

Date: 1 Nov 2022, 1:40 pm

Standard encryption (PGP)
[See security details](#)

Level of the dustbin is 100 locations of the dustbin
south street ,kk nagar Covai

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