## PROJECT DEVELOPMENT PHASE DELIVERY OF SPRINT 3

Team ID	PNT2022TMID36338
Project Name	Project- Smart Waste Management System For
	Metropolitan Cities

importRPi.GPIO as GPIO
import yagmail import
time import
mysql.connector
TRIG=21 ECHO=20
dusbinLevelInper=0
confirmtion=0
GPIO.setmode(GPIO.BCM)
GPIO.setup(TRIG,GPIO.OUT)
GPIO.setup(ECHO,GPIO.IN)
GPIO.setup(19, GPIO.OUT)
defmailsender():
if(confirmtion==3):

```
mydb = mysql.connector.connect(
host="192.168.143.95",
                           user="root",
password="mysqlpassword",
                            database="IbmDataBase"
    )
mycursor = mydb.cursor()
confirmtion=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("sendedsuccessfull")
else:
print(confirmtion)
```

```
defDataBaseCon():
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")
defledblinkon():
GPIO.output(19, GPIO.HIGH)
defledblinkoff():
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):
                        ledblinkoff()
dusbinLevelInper=80
```

else:

dusbinLevelInper=100

ledblinkon() confirmtion+=1

mailsender() DataBaseCon()

time.sleep(20)