

Lampiran Source Code

```
#!/usr/bin/env python
import time
import RPi.GPIO as GPIO
from mfrc522 import SimpleMFRC522
from signal import signal, SIGTERM, SIGHUP, pause
from rpi_lcd import LCD
import mysql.connector
cal = 5

import os

db = mysql.connector.connect(
    host="localhost",
    user="phpmyadmin",
    passwd="12345",
    database="phpmyadmin")

cursor = db.cursor()
reader = SimpleMFRC522()
lcd = LCD()

def safe_exit(signum, frame):
    exit(1)

try:
    while True:
        adaKartu = 0
        signal(SIGHUP, safe_exit)
        signal(SIGHUP, safe_exit)
```

```
lcd.text("Tunggu, silahkan", 1)
lcd.text("Scan Kartu", 2)
print('RFID Terbaca\nakan tersimpan di attendance')
if adaKartu == 0:
    id, text = reader.read()
    adaKartu = 1
    cursor.execute("Select id, name FROM users WHERE rfid_uid="+str(id))
    result = cursor.fetchone()
    signal(SIGHUP, safe_exit)
    signal(SIGHUP, safe_exit)
    lcd.text("Scan Suhu", 1)
    lcd.text("Tempelkan Tangan", 2)

if cursor.rowcount >= 1:
    path =os.popen("python3 /home/pi/foto.py").read()
    print (f"path = {path}")
    signal(SIGHUP, safe_exit)
    lcd.text("Foto", 1)
    imgPath = f"/portal/images/{path}"
    print (f"imgath {imgPath}")
    print("Hai " + result[1])
    dataMLX = os.popen("python /home/pi/PyMLX90614-
0.0.3/mlxread.py").read()
    print(f"suhu = {dataMLX}")
    suhuF = float(dataMLX)
    suhu = suhuF + cal
    print(f"suhu kalibrasi {suhu}")
    signal(SIGHUP, safe_exit)
    lcd.text(f"suhu {suhu}", 1)
    jam =os.popen("python3 /home/pi/jam.py").read()
```

```

print (f'tanggal = {jam}")

cursor.execute("INSERT INTO history
(user_id,foto,suhu,nama,rt,rw,gang,no_rumah,keterangan,tanggal) VALUES
(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)",
(result[0],imgPath,suhu,result[1],result[1],result[1],result[1],result[1],jam
))

db.commit()

adaKartu = 0

if (suhu >= 36.0 and suhu <= 39.0):
    path =os.popen("python3 /home/pi/motor.py").read()
    print ("Gerbang Terbuka")
    signal(SIGHUP, safe_exit)
    lcd.text("Membuka Portal", 2)
    signal(SIGHUP, safe_exit)
    lcd.text("Menunggu Lewat", 2)
    path =os.popen("python /home/pi/gerak.py").read()
    print ("Gerbang Terbuka")
    signal(SIGHUP, safe_exit)
    lcd.text("Portal Tertutup", 2)
else:
    path =os.popen("python3 /home/pi/alarm.py").read()
    signal(SIGHUP, safe_exit)
    lcd.text("Alarm Bunyi", 2)
    print ("Gerbang TUtup")
else:
    print ("Tidak Boleh Masuk")
    signal(SIGHUP, safe_exit)
    lcd.text("Tidak Terdaftar", 1)
    signal(SIGHUP, safe_exit)
    lcd.text("Alarm Bunyi", 2)
    path =os.popen("python3 /home/pi/alarm.py").read()

```

```
path = os.popen("python3 /home/pi/motor2.py").read()  
adaKartu = 0
```

```
finally:  
    GPIO.cleanup()  
    lcd.clear()
```