# Raspberry Pi RFID Attendance System

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**Code:**

Read.py

import RPi.GPIO as GPIO

from mfrc522 import SimpleMFRC522

reader = SimpleMFRC522()

try:

id, text = reader.read()

print(id)

print(text)

finally:

GPIO.cleanup()

Save\_user.py

import time

import RPi.GPIO as GPIO

from mfrc522 import SimpleMFRC522

import mysql.connector

import Adafruit\_CharLCD as LCD

db = mysql.connector.connect(

host="localhost",

user="attendanceadmin",

passwd="pimylifeup",

database="attendancesystem"

)

cursor = db.cursor()

reader = SimpleMFRC522()

lcd = LCD.Adafruit\_CharLCD(4, 24, 23, 17, 18, 22, 16, 2, 4);

try:

while True:

lcd.clear()

lcd.message('Place Card to\nregister')

id, text = reader.read()

cursor.execute("SELECT id FROM users WHERE rfid\_uid="+str(id))

cursor.fetchone()

if cursor.rowcount >= 1:

lcd.clear()

lcd.message("Overwrite\nexisting user?")

overwrite = input("Overwite (Y/N)? ")

if overwrite[0] == 'Y' or overwrite[0] == 'y':

lcd.clear()

lcd.message("Overwriting user.")

time.sleep(1)

sql\_insert = "UPDATE users SET name = %s WHERE rfid\_uid=%s"

else:

continue;

else:

sql\_insert = "INSERT INTO users (name, rfid\_uid) VALUES (%s, %s)"

lcd.clear()

lcd.message('Enter new name')

new\_name = input("Name: ")

cursor.execute(sql\_insert, (new\_name, id))

db.commit()

lcd.clear()

lcd.message("User " + new\_name + "\nSaved")

time.sleep(2)

finally:

GPIO.cleanup()

Check\_attendance.py

import time

import RPi.GPIO as GPIO

from mfrc522 import SimpleMFRC522

import mysql.connector

import Adafruit\_CharLCD as LCD

db = mysql.connector.connect(

host="localhost",

user="attendanceadmin",

passwd="pimylifeup",

database="attendancesystem"

)

cursor = db.cursor()

reader = SimpleMFRC522()

lcd = LCD.Adafruit\_CharLCD(4, 24, 23, 17, 18, 22, 16, 2, 4);

try:

while True:

lcd.clear()

lcd.message('Place Card to\nrecord attendance')

id, text = reader.read()

cursor.execute("Select id, name FROM users WHERE rfid\_uid="+str(id))

result = cursor.fetchone()

lcd.clear()

if cursor.rowcount >= 1:

lcd.message("Welcome " + result[1])

cursor.execute("INSERT INTO attendance (user\_id) VALUES (%s)", (result[0],) )

db.commit()

else:

lcd.message("User does not exist.")

time.sleep(2)

finally:

GPIO.cleanup()