/\* Typical pin layout used:

\* ----------------------------------

\* MFRC522 Node

\* Reader/PCD MCU

\* Signal Pin Pin

\* ----------------------------------

\* RST/Reset RST D1 (GPIO5)

\* SPI SS SDA(SS) D2 (GPIO4)

\* SPI MOSI MOSI D7 (GPIO13)

\* SPI MISO MISO D6 (GPIO12)

\* SPI SCK SCK D5 (GPIO14)

\* 3.3V 3.3V 3.3V

\* GND GND GND

\*/

#define BLYNK\_PRINT Serial

#include <ESP8266WiFi.h>

#include <BlynkSimpleEsp8266.h>

char auth[] = "09754f5944c94ede9f2714b3802430ef";

char ssid[] = "Realme 2 Pro";

char pass[] = "roopak07";

BlynkTimer timer;

#include "SPI.h"

#include "MFRC522.h"

#define SS\_PIN 4

#define RST\_PIN 5

MFRC522 rfid(SS\_PIN, RST\_PIN);

int check[20];

void sendSensor()

{

digitalWrite(3,HIGH); // indication for online

if (!rfid.PICC\_IsNewCardPresent() || !rfid.PICC\_ReadCardSerial())

return;

String strID = "";

for (byte i = 0; i < 4; i++)

{

strID +=String(rfid.uid.uidByte[i], DEC);

}

Serial.print("Tap card key: ");

Serial.println(strID);

/\* sridhar, check[0] \*/

if(strID=="83704143")

{

Serial.println("Sridhar");

if(check[0]==0)

{

Serial.println("check in");

Blynk.virtualWrite(V1, "Sridhar check-in");

check[0]=1;

digitalWrite(0,HIGH);

delay(200);

digitalWrite(0,LOW);

delay(200);

}

else if(check[0]==1)

{

Serial.println("check out");

Blynk.virtualWrite(V1, "Sridhar check-out");

check[0]=0;

digitalWrite(2,HIGH);

delay(200);

digitalWrite(2,LOW);

delay(200);

}

}

/\* Sai Teja - check[1] \*/

else if(strID=="16024222841")

{

Serial.println("Sai Teja");

if(check[1]==0)

{

Serial.println("check in");

Blynk.virtualWrite(V1, "Sai Teja check-in");

check[1]=1;

digitalWrite(0,HIGH);

delay(200);

digitalWrite(0,LOW);

delay(200);

}

else if(check[1]==1)

{

Serial.println("check out");

Blynk.virtualWrite(V1, "Sai Teja check-out");

check[1]=0;

digitalWrite(2,HIGH);

delay(200);

digitalWrite(2,LOW);

delay(200);

}

}

/\* Jashwanth - check[2] ' \*/

else if(strID=="160206175137")

{

Serial.println("Jashwanth");

if(check[2]==0)

{

Serial.println("check in");

Blynk.virtualWrite(V1, "Jashwanth check-in");

check[2]=1;

digitalWrite(0,HIGH);

delay(200);

digitalWrite(0,LOW);

delay(200);

}

else if(check[2]==1)

{

Serial.println("check out");

Blynk.virtualWrite(V1,"Jashwanth check-out");

check[2]=0;

digitalWrite(2,HIGH);

delay(200);

digitalWrite(2,LOW);

delay(200);

}

}

/\* person 4 - check[3] \*/

else if(strID=="24419422941")

{

Serial.println("person 4");

if(check[3]==0)

{

Serial.println("check in");

Blynk.virtualWrite(V1, "person 4 check-in");

check[3]=1;

digitalWrite(0,HIGH);

delay(200);

digitalWrite(0,LOW);

delay(200);

}

else if(check[3]==1)

{

Serial.println("check out");

Blynk.virtualWrite(V1, "person 4 check-out");

check[3]=0;

digitalWrite(2,HIGH);

delay(200);

digitalWrite(2,LOW);

delay(200);

}

}

else

{

Blynk.virtualWrite(V1, strID); // printing card value in excel sheet

}

rfid.PICC\_HaltA(); //

}

void setup()

{

Serial.begin(115200);

Blynk.begin(auth, ssid, pass);

pinMode(0,OUTPUT); //D3 , for check-in indication

pinMode(2,OUTPUT); //D4 , for check-out indication

pinMode(3,OUTPUT); //D9 , for online indication

SPI.begin();

rfid.PCD\_Init();

for(int i=0;i<20;i++)

{

check[i]=0;

}

timer.setInterval(1000L, sendSensor);

}

void loop()

{

Blynk.run();

timer.run();

}