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#include <ESP8266WiFi.h>
#include <SPI.h>
#include <RFID.h>
#include "FirebaseESP8266.h" // Install Firebase ESP8266 library

#define FIREBASE_HOST "new1-26233-default-rtdb.firebaseio.com" //Without http:// or
https:// schemes
#define FIREBASE_AUTH "zENdgQyLyXyjtGEpraxxsIlgzq29VhKNHvL8QJhu"

    FirebaseConfig config;
    FirebaseAuth auth;

RFID rfid(D8, D0); //D8:pin of tag reader SDA. D0:pin of tag reader RST
unsigned char str[MAX_LEN]; //MAX_LEN is 16: size of the array

const char ssid[] = "Keralavision";
const char pass[] = "9496492891";

String uidPath= "/";
//Define FirebaseESP8266 data object
FirebaseData firebaseData;

void connect() {
    Serial.print("checking wifi...");
    while (WiFi.status() != WL_CONNECTED) {
        Serial.print(".");
        delay(1000);
    }

    Serial.println("\n connected!");
}

void setup()
{
    Serial.begin(115200);
    WiFi.begin(ssid, pass);

    SPI.begin();
    rfid.init();

    connect();
    // FirebaseConfig config;
    // FirebaseAuth auth;

    // // Set the necessary fields in config
    // config.api_key = "your-api-key";
    // config.database_url = FIREBASE_HOST;

    // // Initialize Firebase
    // Firebase.begin(&config, &auth);

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//Firebase.begin(FIREBASE_HOST, FIREBASE_AUTH);

config.database_url = FIREBASE_HOST;
config.signer.tokens.legacy_token = FIREBASE_AUTH;
Firebase.begin(&config, &auth);

Firebase.reconnectWiFi(true);
}
void pushUser (String temp)    //Function to check if an identified tag is registered to
allow access
{
    Serial.println("PUSHING USER ID: "+temp);

    Firebase.setInt(firebaseData, uidPath+"users/"+temp,0);
}
void loop() {
    if (rfid.findCard(PICC_REQIDL, str) == MI_OK)    //Wait for a tag to be placed near the
reader
    {
        Serial.println("Card found");
        String temp = "";                                //Temporary variable to store the read
RFID number
        if (rfid.anticoll(str) == MI_OK)                //Anti-collision detection, read tag
serial number
        {
            Serial.print("The card's ID number is : ");
            for (int i = 0; i < 4; i++)                    //Record and display the tag serial
number
            {
                temp = temp + (0x0F & (str[i] >> 4));
                temp = temp + (0x0F & str[i]);
            }
            Serial.println (temp);
            pushUser (temp);    //Check if the identified tag is an allowed to open tag
        }
        rfid.selectTag(str); //Lock card to prevent a redundant read, removing the line will
make the sketch read cards continually
    }
    rfid.halt();
}
}

```