Receiving data from the arduino UNO and parsing then sending to the firebase

#include "FirebaseESP8266.h"

#include <ESP8266WiFi.h>

#define FIREBASE\_HOST "dummy-cd6d8.firebaseio.com"

#define FIREBASE\_AUTH "RV3DRq90y7ysfFLoWIB5Rs4pacO6cK0pQZIYmWqU"

#define WIFI\_SSID "pub"

#define WIFI\_PASSWORD "11110000"

FirebaseData firebaseData;

void printJsonObjectContent(FirebaseData &data);

int i = 0;

String path = "/RFID\_Values";

#include<SoftwareSerial.h>

SoftwareSerial s(D6,D5);

#include<ArduinoJson.h>

void setup()

{

Serial.begin(9600);

WiFi.begin(WIFI\_SSID, WIFI\_PASSWORD);

Serial.print("Connecting to Wi-Fi");

while (WiFi.status() != WL\_CONNECTED)

{

Serial.print(".");

delay(300)

;

}

Serial.println(WiFi.localIP());

Firebase.begin(FIREBASE\_HOST, FIREBASE\_AUTH);

Firebase.reconnectWiFi(true);

Firebase.setReadTimeout(firebaseData, 1000 \* 60);

Firebase.setwriteSizeLimit(firebaseData, "tiny");

FirebaseJson json;

s.begin(9600);

while(!Serial) continue;

}

void loop()

{

StaticJsonBuffer<1000> jsonBuffer;

JsonObject& root = jsonBuffer.parseObject(s);

if(root == JsonObject::invalid())

return;

root.prettyPrintTo(Serial);

String data3 = root["data3"];

Firebase. pushString(firebaseData, path + "/RFID reading", data3);

delay(1000);

}

Receiving data From the Firebase as Strings, Integers and sending Showing those in serial monitor

#include "FirebaseESP8266.h"

#include <ArduinoJson.h>

#include <ESP8266WiFi.h>

#define FIREBASE\_HOST "dummy-cd6d8.firebaseio.com"

#define FIREBASE\_AUTH "RV3DRq90y7ysfFLoWIB5Rs4pacO6cK0pQZIYmWqU"

#define WIFI\_SSID "pub"

#define WIFI\_PASSWORD "11110000"

FirebaseData firebaseData;

void setup()

{

Serial.begin(115200);

WiFi.begin(WIFI\_SSID, WIFI\_PASSWORD);

Serial.print("Connecting to Wi-Fi");

while (WiFi.status() != WL\_CONNECTED)

{

Serial.print(".");

delay(300);

}

Serial.println();

Serial.print("Connected with IP: ");

Serial.println(WiFi.localIP());

Serial.println();

Firebase.begin(FIREBASE\_HOST, FIREBASE\_AUTH);

Firebase.reconnectWiFi(true);

String path = "/School Data/Registered People/RegisteredPeopleArray";

Firebase.getJSON(firebaseData, path);

Serial.println("json data received aa");

Serial.println(firebaseData.jsonData());

for(int i = 1 ; i<=4;i++)

{

String j = String(i);

String path\_ID = "/SchoolData/RegisteredPersons/Person-"+j+"/ID";

Firebase.getString(firebaseData,path\_ID);

int ID = firebaseData.stringData().toInt();

Serial.println(ID+123);

String path\_Name = "/SchoolData/RegisteredPersons/Person-"+j+"/Name";

Firebase.getString(firebaseData,path\_Name);

Serial.println(firebaseData.stringData());

String path\_RFID = "/SchoolData/RegisteredPersons/Person-"+j+"/RFID";

Firebase.getString(firebaseData,path\_RFID);

Serial.println(firebaseData.stringData());

Serial.println(".......");

}

}

void loop()

{

}

Node mcu RFID reading

/\*

\* 3.3V ----> 3.3V

\* RST pin ----> D2

\* GND pin ----> GND

\* MISO pin ----> D6

\* MOSI ----> D7

\* SCK ----> D5

\* SDA ----> D4

\*/

/\*

\* 3.3V ----> 3.3V

\* RST pin ----> D2

\* GND pin ----> GND

\* MISO pin ----> D6

\* MOSI ----> D7

\* SCK ----> D5

\* SDA ----> D4

\*/

#include <SPI.h>

#include <MFRC522.h>

#define SS\_PIN D4

#define RST\_PIN D2

MFRC522 mfrc522(SS\_PIN, RST\_PIN); // Instance of the class

void setup() {

Serial.begin(115200);

SPI.begin(); // Init SPI bus

mfrc522.PCD\_Init(); // Init MFRC522

Serial.println("RFID reading UID");

}

void loop() {

if ( mfrc522.PICC\_IsNewCardPresent())

{

String content= "";byte letter;

if ( mfrc522.PICC\_ReadCardSerial())

{

for (byte i = 0; i < mfrc522.uid.size; i++) {

content.concat(String(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " "));

content.concat(String(mfrc522.uid.uidByte[i], HEX));

}

content.toUpperCase();

Serial.println(content);

mfrc522.PICC\_HaltA();

}

}

}