IoT CONTROLLED BULB

* This is voice controlled bulb made from nodemcu
* Circuit Picture:

A picture containing table

Description automatically generated

Code for nodemcu:

#include "ThingSpeak.h"

#include <ESP8266WiFi.h>

const char ssid[] = "VIVEKANAND@EXCELL";

const char pwd[] = "Sow@1993";

WiFiClient client;

unsigned long counterChannelNumber = 1083843;

const char \* ReadAPIKey = "BT8LMHK48CIDOP4K"; // Read API Key

const int fieldno=1;

int relay=D4;

void setup() {

// put your setup code here, to run once:

Serial.begin(115200);

Serial.println();

Serial.print("Wifi Connecting to ");

Serial.println(ssid);

WiFi.begin(ssid,pwd);

Serial.println();

Serial.print("Connecting");

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

{

delay(1000);

Serial.print(".");

}

ThingSpeak.begin(client);

pinMode(relay,OUTPUT);

}

void loop() {

// put your main code here, to run repeatedly:

long ledStatus = ThingSpeak.readLongField(counterChannelNumber,fieldno,ReadAPIKey);

int statusCode = ThingSpeak.getLastReadStatus();

if (statusCode == 200)

{

Serial.print("LED STATUS: ");

Serial.println(ledStatus);

if(ledStatus==1) {digitalWrite(relay,LOW);}

if (ledStatus==0) {digitalWrite(relay,HIGH);}

}

else

{

Serial.println("Unable to read channel / No internet connection");

}

delay(100);

}

Code for Arduino:

//I coded for Arduino as my nodemcu is unable to run 5V relay

int readpin=A0,readVal,relay=8;

void setup() {

// put your setup code here, to run once:

pinMode(readpin,INPUT);

pinMode(relay,OUTPUT);

Serial.begin(115200);

}

void loop() {

// put your main code here, to run repeatedly:

readVal=analogRead(readpin);

Serial.println(readVal);

if(readVal<600)digitalWrite(relay,LOW);

else digitalWrite(relay,HIGH);

delay(500);

}

Link for working video: <https://drive.google.com/file/d/1kI4sWQfcv3EwdIjO05UzgzTSqw7jh4SZ/view?usp=sharing>

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Thank You