SMOKE SENSOR

IOT Project

Table of Contents

01
Description

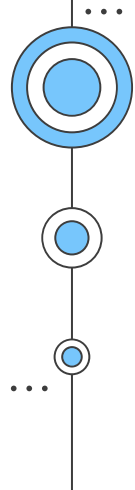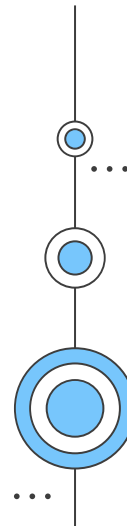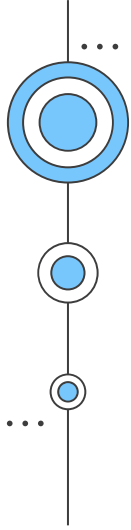Smoke alarms determine fire by sensing small particles in the air.
If the reading is a above 700, then the smoke alert gets triggered along with the buzzer and an email gets sent using IFFFT. Statistics can be monitored by ThingSpeak.
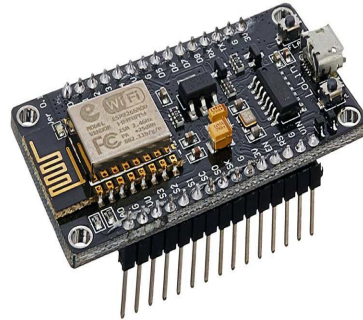
02
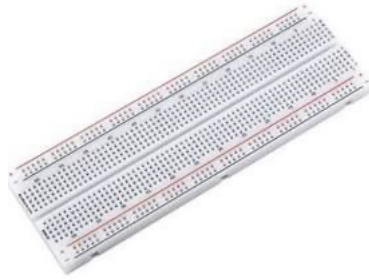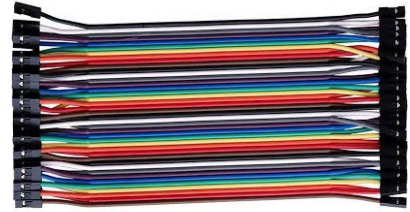## Tools

MQ2

...

NodeMCU

...

Buzzer

...

LED

...

BreadBoard

...

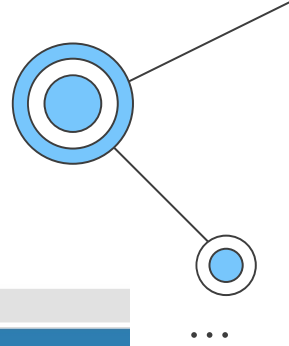
Wires

...

03
Our Process

01

Creating smoke channel on ThingSpeak

02

creating an applet to send an email on IFTTT when smoke is detected

Applets   **My Applets**   Details   Health

Your Webhooks Applets

If Maker Event "Alert", then Send me an email at 2005623@uj.edu.sa

by 2005623

Connected

1

03

changing the documentation of the trigger

Your key is: **dTn2A9qwwaJzjA30I5fQPo**

◀ Back to service

To trigger an Event with an arbitrary JSON payload

Make a POST or GET web request to:

```
https://maker.ifttt.com/trigger/ Alert /json/with/key/dTn2A9qwwaJzjA30I5fQPo
```

* Note the extra /json path element in this trigger.

With any JSON body. For example:

```
{ "this" : [ { "is": { "some": [ "test", "data" ] } } ] }
```

You can also try it with `curl` from a command line.

```
curl -X POST -H "Content-Type: application/json" -d '{"this":[{"is":{"some":["test","data"]}}]}'
https://maker.ifttt.com/trigger/Alert/json/with/key/dTn2A9qwwaJzjA30I5fQPo
```

Please read our FAQ on using Webhooks for more info.

Acti

04

Email is sent

EXT : Smoke sensor alert

ⓘ Some content in this message has been blocked because the sender isn't in your Safe senders list. I trust content from action@ifttt.com. | Show blocked content

WI Webhooks via IFTTT <action@ifttt.com>
To: عسول محمد محمود رجب

Tue 11/8/2022 10:27 PM

تحذير: هذه الرسالة من مرسل خارجي - كن حذرًا ، خصوصا مع الروابط والمرفقات
CAUTION: This message is from an EXTERNAL SENDER - be cautious, particularly with links and attachments

Smoke detected!

🖼 Webhooks   **Manage**

Activate Windows
Go to Settings to activate Windows.

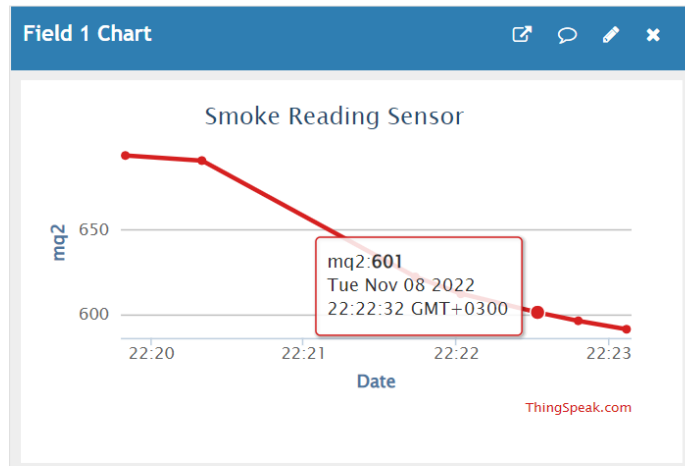Unsubscribe from these notifications or sign in to manage your Email service.

05

monitoring the channel statistics

ThingSpeak™

Channels ▾   Apps ▾   Devices ▾   Support ▾

Created: 34 minutes ago
Last entry: less than a minute ago
Entries: 7

Field 1 Chart

Smoke Reading Sensor

mq2:**601**
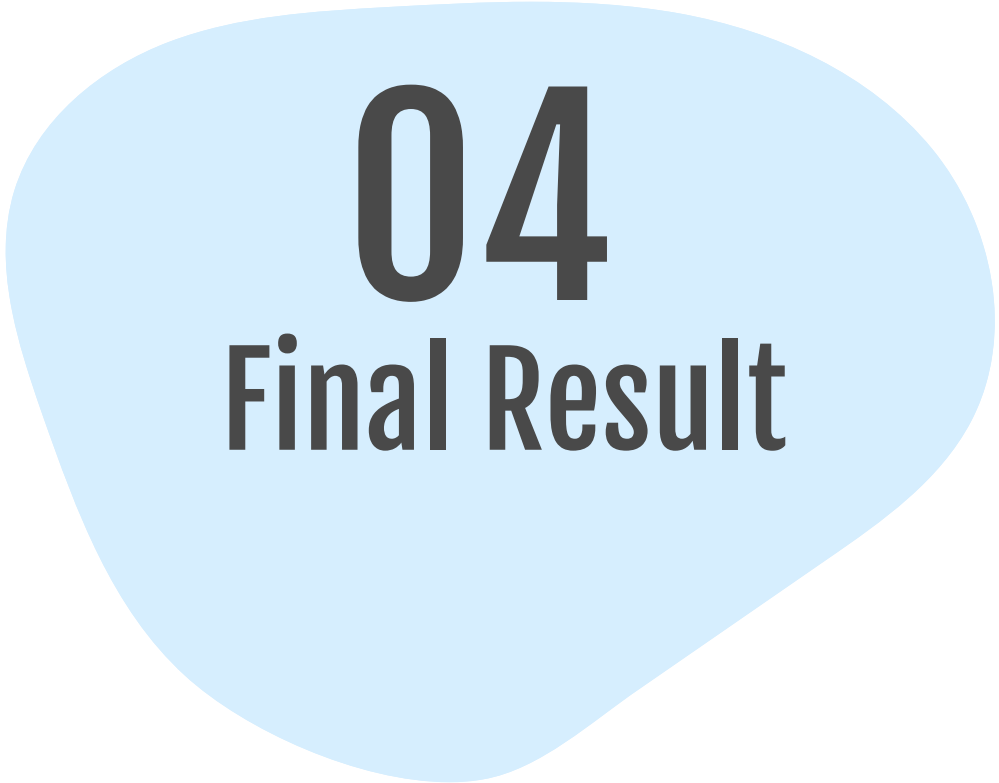Tue Nov 08 2022
22:22:32 GMT+0300

06

when the sensor reading is above 750, an email is sent using the implementation of the code

```
61-Node_MCU_MQ-2 §

// connections of electronic components
// Arduino IDE   from www.arduino.cc
#define led D8
#define buzzer D7
#define MQ2_sensor A0    // smoke sensor
#define max_reading  750   // range from 0 to

//Wifimodule and thingspeak lib
#include <ESP8266WiFi.h>    //Link in descript
#include <ThingSpeak.h>


int sensor_reading;
```

Done compiling.

BSS   : 26128)   - zeroed variables

```
Currently Connected to WiFi
Sensor Reading: 573
Sent to Thingspeak
Cloud Connect Succesful
-----------------------------------
Currently Connected to WiFi
Sensor Reading: 570
Sent to Thingspeak
Cloud Connect Succesful
-----------------------------------
Currently Connected to WiFi
Sensor Reading: 945
Sent to Thingspeak
Email is Sent
```
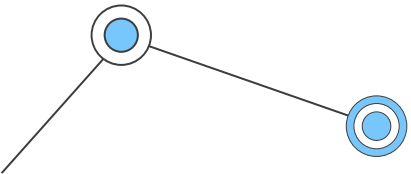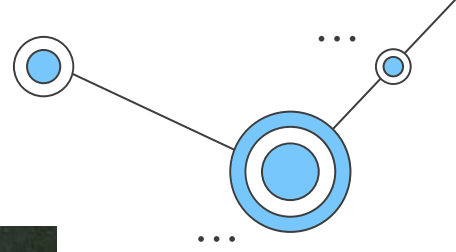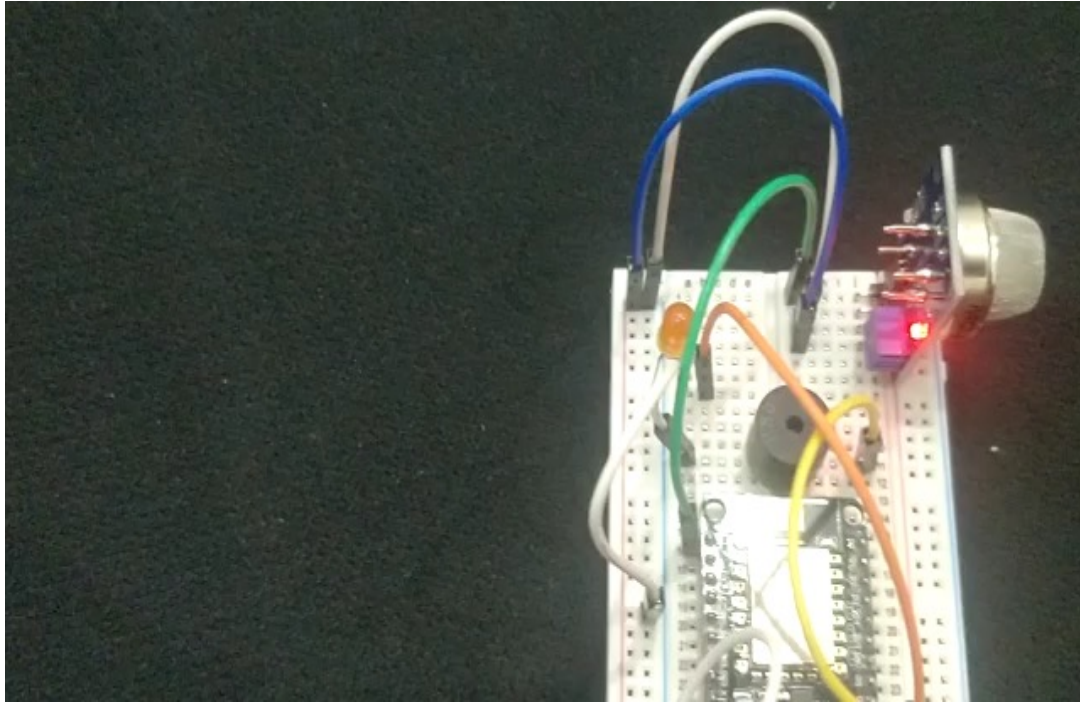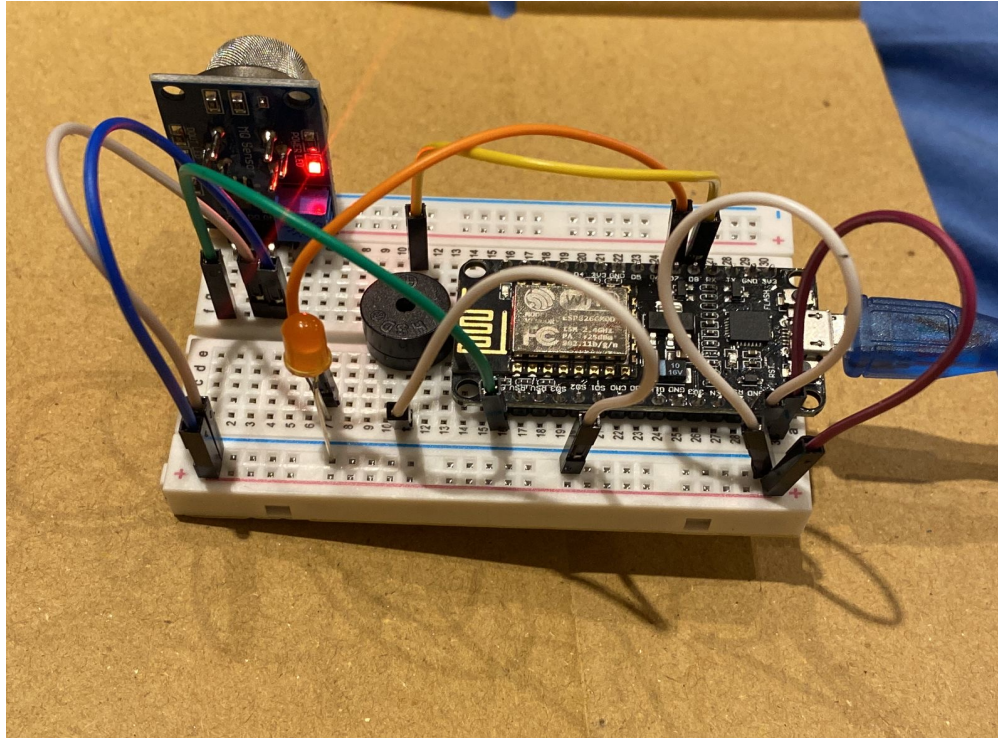
Send

04
Final Result

Video

Picture

Thanks!

Do you have any questions?

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