- Sign In to ThingSpeak™ using your MathWorks® Account credentials, or create a new account.
- Click Channels > MyChannels.
- On the Channels page, click New Channel.
- Fill out the details, as required. as, we are just monitoring temperature and heartrate we use only two fields.

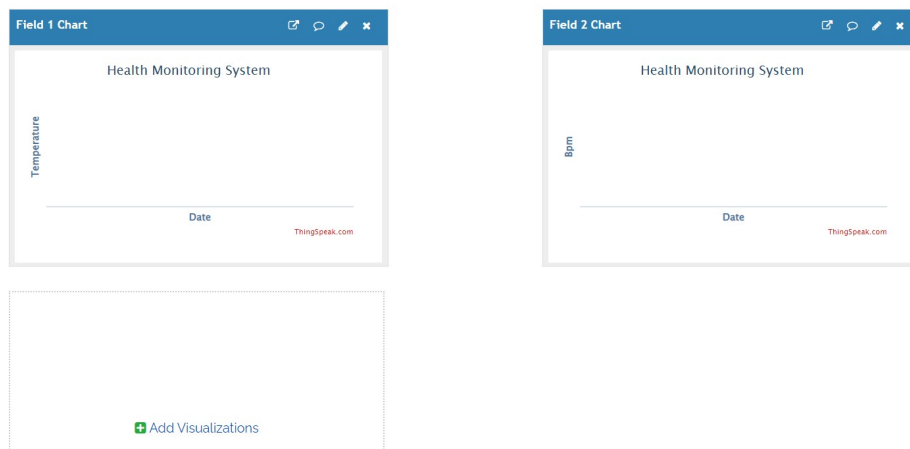|	
Name	Health Monitoring System
Description	
Field 1	Temperature ☑
Field 2	Bpm ☑
Field 3	☐
Field 4	☐
Field 5	☐
Field 6	☐
Field 7	☐
Field 8	☐

Channel Settings

- **Percentage complete:** Calculated based on data entered into the various fields of a channel. Enter the name, description, location, URL, video, and tags to complete your channel.
- **Channel Name:** Enter a unique name for the ThingSpeak channel.
- **Description:** Enter a description of the ThingSpeak channel.
- **Field#:** Check the box to enable the field, and enter a field name. Each ThingSpeak channel can have up to 8 fields.
- **Metadata:** Enter information about channel data, including JSON, XML, or CSV data.
- **Tags:** Enter keywords that identify the channel. Separate tags with commas.
- **Link to External Site:** If you have a website that contains information about your ThingSpeak channel, specify the URL.
- **Show Channel Location:**
  - **Latitude:** Specify the latitude position in decimal degrees. For example, the latitude of the city of London is 51.5072.
  - **Longitude:** Specify the longitude position in decimal degrees. For example, the longitude of the city of London is -0.1275.
  - **Elevation:** Specify the elevation position meters. For example, the elevation of the city of London is 35.052.

the other details are not that important but if you want to fill them go ahead. click on save channel.
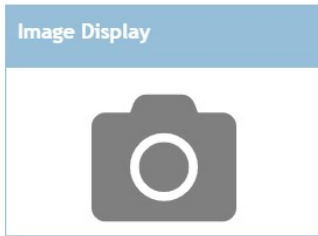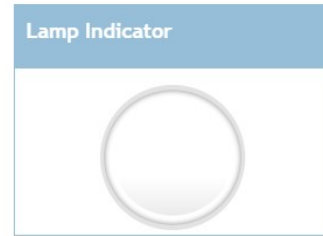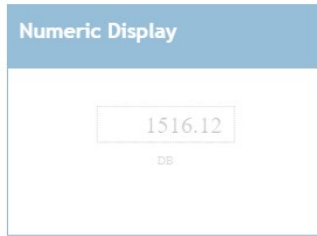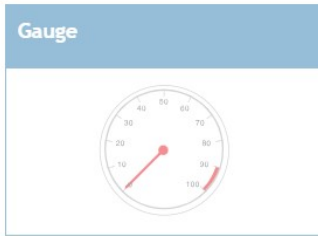
- in public or private view which ever you selected, we can see the plots like below.

Created: about a year ago
Last entry: 9 months ago
Entries: 849

Field 1 Chart	Field 2 Chart
Health Monitoring System	Health Monitoring System

Temperature — Date — ThingSpeak.com

Bpm — Date — ThingSpeak.com

➕ Add Visualizations

You can click on widgets and also add some interesting graphics.

Click on a widget to add it to the Channel ✕

Gauge

Numeric Display

1516.12
DB

Lamp Indicator

Image Display

Next   Cancel

- in the api key section use the write api key in the code.

Private View   Public View   Channel Settings   Sharing   **API Keys**   Data Import / Export

Write API Key

Key

Generate New Write API Key

Read API Keys

Key

Note

Save Note   Delete API Key

Add New Read API Key

Help

API keys enable you to write data to a channel or read data from a private channel. API keys are auto-generated when you create a new channel.

API Keys Settings

- **Write API Key**: Use this key to write data to a channel. If you feel your key has been compromised, click **Generate New Write API Key.**
- **Read API Keys**: Use this key to allow other people to view your private channel feeds and charts. Click **Generate New Read API Key** to generate an additional read key for the channel.
- **Note**: Use this field to enter information about channel read keys. For example, add notes to keep track of users with access to your channel.

API Requests

Write a Channel Feed

GET `https://api.thingspeak.com/update?api_k`   `.ld1=0`

Read a Channel Feed

GET `https://api.thingspeak.com/channe.`   `.ds.json?results=2`

Read a Channel Field

GET `https://api.thingspeak.com/ch.`   `n?results=2`

- go to IFTTT website and log in, if not create an account.
- create an applet
- then this would show up.

Classic 🎨 AI (Beta)

If This Add

Then That

- click on if this - add
- then search for webhooks.

‹ Back **Choose a service** ❓

| All services ⌄ |

🔍 webho ⊗

Available services

Webhooks   WeBeHome - Security and Smart Home

- choose the receive a web request option

Choose trigger

Receive a web request

This trigger fires every time the Maker service receives a web request to notify it of an event. For information on triggering events, go to your Maker service settings and then the listed URL (web) or tap your username (mobile)

- give an event name

Receive a web request

This trigger fires every time the Maker service receives a web request to notify it of an event. For information on triggering events, go to your Maker service settings and then the listed URL (web) or tap your username (mobile)

Event Name

microbit_temperature_alarm

The name of the event, like "button_pressed" or "front_door_opened"
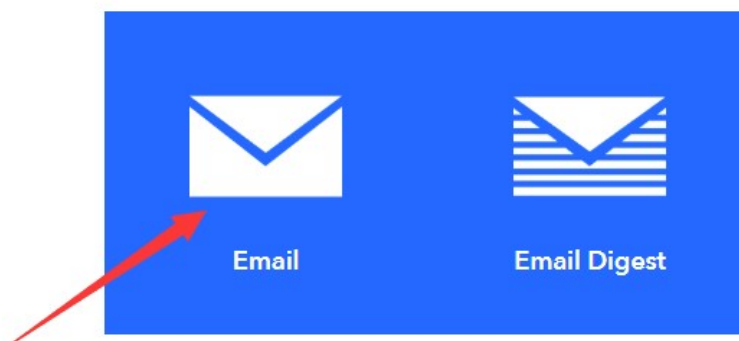
Create trigger

- now click on that

- now choose email as the service

Choose action service

Step 3 of 6

- give the event name you gave i webhooks, and also the email for the message should be sent.

Review and finish

Step 6 of 6

If maker Event "microbit_temperature_alarm", then send me an email at 78████████.com

86/140

by lvsong

works with ✉

Receive notifications when this Applet runs

Finish

click on documentation. to copy the link.

7

Your key is: db6dldQzAfqCC_vecHDNhR

◀ Back to service

To trigger an Event

Make a POST or GET web request to:

```
https://maker.ifttt.com/trigger/ microbit_temperature_alarm /with/key/db6dldQzAfqCC_vecHDNhR
```

With an optional JSON body of:

```
{ "value1" : "        ", "value2" : "        ", "value3" : "        " }
```

The data is completely optional, and you can also pass value1, value2, and value3 as query parameters or form v
passed on to the Action in your Recipe.

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

```
Test
```

Test It

- now got to thingspeak again, and in app, go to thinghttp.
  and create new thinghttp service.

8

Name	Health_monitor
API Key	MLY7N909HU2XU7CK
URL	https://maker.ifttt.com/trigger/Patient_Info/json/with/key/g0se
HTTP Auth Username	
HTTP Auth Password	
Method	POST
Content Type	application/json
HTTP Version	1.1
Host	

Name

Headers

Name

Value

remove header

add new header

Body

{ "value1" : "%%channel_1687564_fieldNumber%%","value2" : "%%channel_1687564_fieldNumber%%","value3" : "%%channel_1687564_fieldNumber%%"}

Parse String

Save ThingHTTP

1
2
3

4

Lea

- the url is the one copied in the above step from ifttt. content type must be json.
- click on save thinghttp

- now go to apps at the top , select react. now we have to define conditions when the email should be triggered. in total we need 3 reacts, one for max temperature, and two for heart rate min and max. if you wish to have min temp also you have it.

Edit React

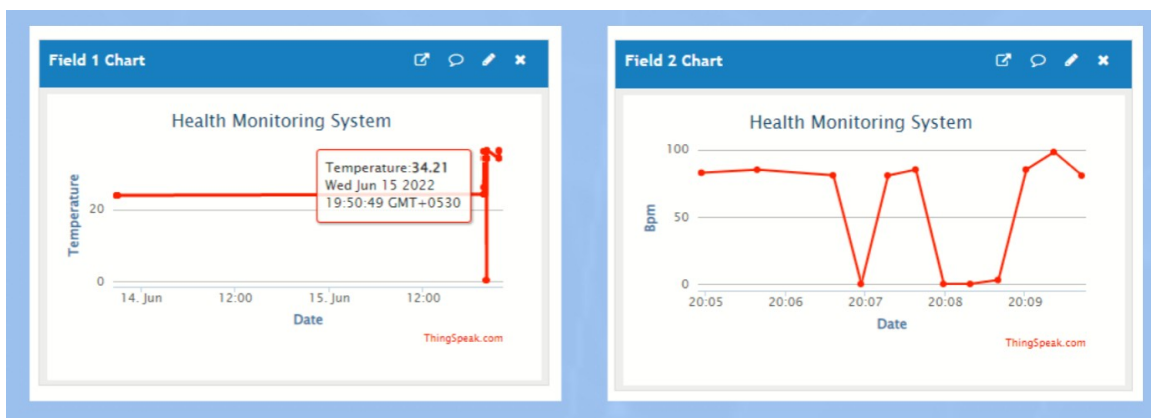|	
Name:	React 3
Condition Type:	Numeric
Test Frequency:	On data insertion
Last Ran:	2023-05-06 08:11
Channel:	Health Monitoring System
Condition:	Field 2 (Bpm) is less than 60
ThingHTTP:	Health_monitor
Run:	Each time the condition is met
Created:	2022-06-17 2:45 pm

Apps / React / React 2

Edit React

Name:	React 2
Condition Type:	Numeric
Test Frequency:	On data insertion
Last Ran:	2022-07-08 05:25
Channel:	Health Monitoring System
Condition:	Field 2 (Bpm) is greater than 100
ThingHTTP:	Health_monitor
Run:	Each time the condition is met
Created:	2022-06-17 2:14 pm

Apps / React / React 5

Edit React

Name:	React 5
Condition Type:	Numeric
Test Frequency:	On data insertion
Last Ran:	2022-07-08 05:25
Channel:	Health Monitoring System
Condition:	Field 2 (Bpm) is greater than 100
MATLAB Analysis:	Read Channel to Trigger Email 1
Run:	Each time the condition is met
Created:	2022-05-30 5:13 pm

when the module is run, the values are plotted in a graph.

triggered emails