

Sprint-3

Date	18 November 2022
Team ID	PNT2022TMID20484
Project Name	Industry-Specific Intelligent Fire Management System

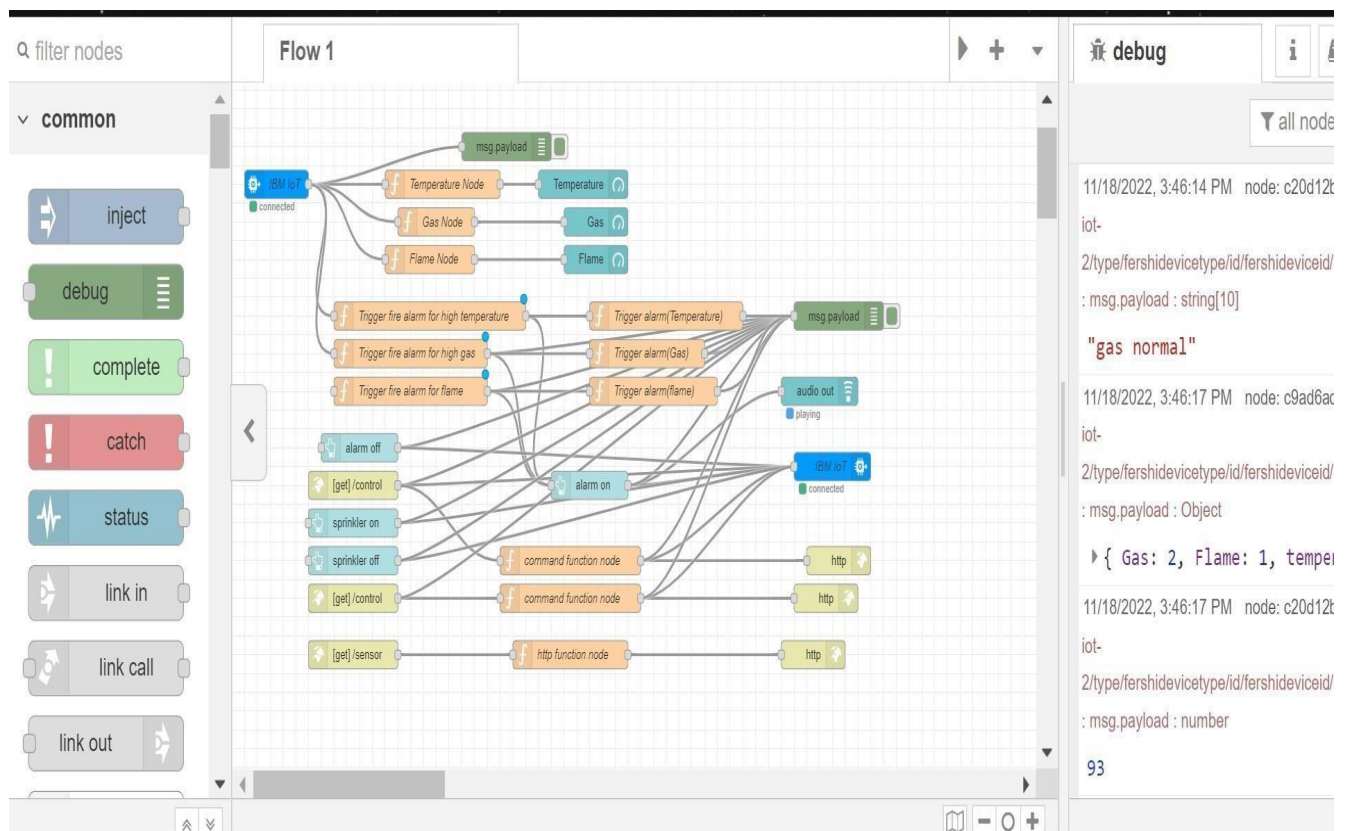
Turning the alarm ON whenever temperature, gas, flame exceeds a particular value, Turning the alarm OFF:

Submitted by: Muthu Lakshmi P – 49621911089

Shirlin Jeno Wincy J – 49621911103

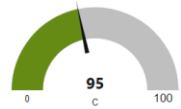
Mohamed Anas.M– 49621911009

Nishar Ahamed T - 4962191109





Temperature



ALARM ON

ALARM OFF

SPRINKLER ON

SPRINKLER OFF

all nodes

11/18/2022, 3:47:14 PM node: c9ad6ad912607e2a

iot-2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/json : msg.p

▶ { Gas: 93, Flame: 1, temperature: 38 }

11/18/2022, 3:47:14 PM node: c20d12b97cbb6b1b

iot-2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/json : msg.p

38

11/18/2022, 3:47:14 PM node: c20d12b97cbb6b1b

iot-2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/json : msg.p

93

11/18/2022, 3:47:14 PM node: c20d12b97cbb6b1b

iot-2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/json : msg.p

"alarmon"

11/18/2022, 3:47:14 PM node: c20d12b97cbb6b1b

iot-2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/json : msg.p

```

type/ferashidevicetype/id/ferashideviceid/evt/event_1/fmt/js
: msg.payload : string[18]
"Temperature normal"
11/18/2022, 6:25:43 PM node: c20d12b97cbb6b1b
msg.payload : string[8]
"alarmoff"
11/18/2022, 6:25:43 PM node: c20d12b97cbb6b1b
msg.payload : string[8]
"alarmoff"
11/18/2022, 6:25:44 PM node: c9ad6ad912607e2
iot-
2/type/ferashidevicetype/id/ferashideviceid/evt/event_1/fmt/js
: msg.payload : Object
{ Gas: 62, Flame: 0, temperature:
35 }
11/18/2022, 6:25:44 PM node: c20d12b97cbb6b1b
iot-

```

Code:

Edit function node
Delete Cancel Done

Properties

Name Trigger fire alarm for high temperature

Setup On Start On Message On Stop

```

1 msg.payload=msg.payload.temperature
2 if(msg.payload>=59)
3 {
4     return msg;
5 }
6

```

Edit function node

Delete

Cancel

Done

Properties

Name

Trigger alarm(Temperature)

Setup

On Start

On Message

On Stop

```
1 msg.payload=msg.payload.temperature
2 if(msg.payload>59)
3 {
4   msg.payload="Temperature too high"
5   return[msg,null];
6 }
7 else
8 {
9   msg.payload="Temperature normal"
10  return[msg,null];
11 }
```

Edit function node

Delete

Cancel

Done

Properties

Name

Trigger fire alarm for high gas

Setup

On Start

On Message

On Stop

```
1 msg.payload=msg.payload.Gas
2 if(msg.payload>=50)
3 {
4   return msg;
5 }
6
```

Edit function node

Delete

Cancel

Done

⚙ Properties



📌 Name

Trigger alarm(Gas)



⚙ Setup

On Start

On Message

On Stop

```
1 msg.payload=msg.payload.Gas
2 if(msg.payload>50)
3 {
4   msg.payload="gas too high"
5   return[msg,null];
6 }
7 else
8 {
9   msg.payload="gas normal"
10  return[msg,null];
11 }
```

Edit function node

Delete

Cancel

Done

⚙ Properties



📌 Name

Trigger fire alarm for flame



⚙ Setup

On Start

On Message

On Stop

```
1 msg.payload=msg.payload.Flame
2 if(msg.payload==1)
3 {
4     return msg;
5 }
6
```

Edit function node

Delete

Cancel

Done

⚙ Properties

🔖 Name

Trigger alarm(flame)



⚙ Setup

On Start

On Message

On Stop

```
1 msg.payload=msg.payload.Flame
2 if(msg.payload==1)
3 {
4     msg.payload="Fire is detected"
5     return[msg,null];
6 }
7 else
8 {
9     msg.payload="No fire"
10    return[msg,null];
11 }
```


msg.payload : string[12]

"sprinkler on"

11/18/2022, 6:24:10 PM node: c9ad6ad912607e2a

iot-

2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/

: msg.payload : Object

▶ { Gas: 10, Flame: 1, temperature: 66 }

11/18/2022, 6:24:10 PM node: c20d12b97cbb6b1

iot-

2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/

: msg.payload : number

66

11/18/2022, 6:24:10 PM node: c20d12b97cbb6b1b

iot-

2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/

: msg.payload : string[7]

11/18/2022, 6:24:53 PM node: c20d12b97cbb6b1b

iot-

2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/j

: msg.payload : string[10]

"gas normal"

11/18/2022, 6:24:53 PM node: c20d12b97cbb6b1b

msg.payload : string[13]

"sprinkler off"

11/18/2022, 6:24:53 PM node: c20d12b97cbb6b1b

msg.payload : string[13]

"sprinkler off"

11/18/2022, 6:24:53 PM node: c9ad6ad912607e2

iot-

2/type/fershidevicetype/id/fershideviceid/evt/event_1/fmt/j

: msg.payload : Object

▶ { Gas: 29, Flame: 0, temperature: 47 }