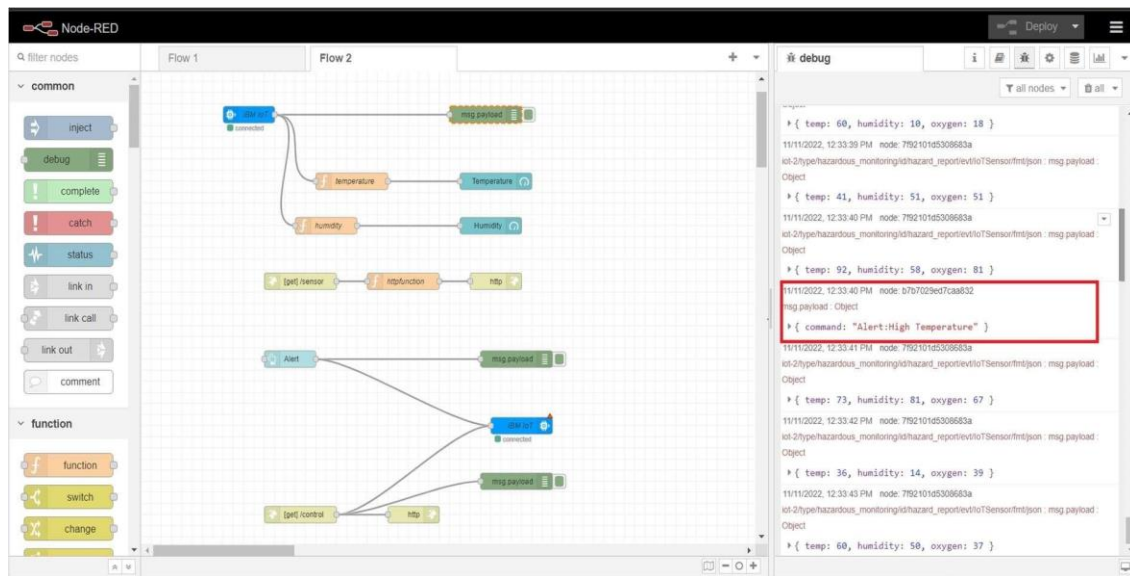


## SPRINT-4

Team ID	PNT2022TMID14654
Project Name	Hazardous Area Monitoring for industrial Plant powered by IoT

Test the Application with the required MIT A12 Companion Code and User Interface



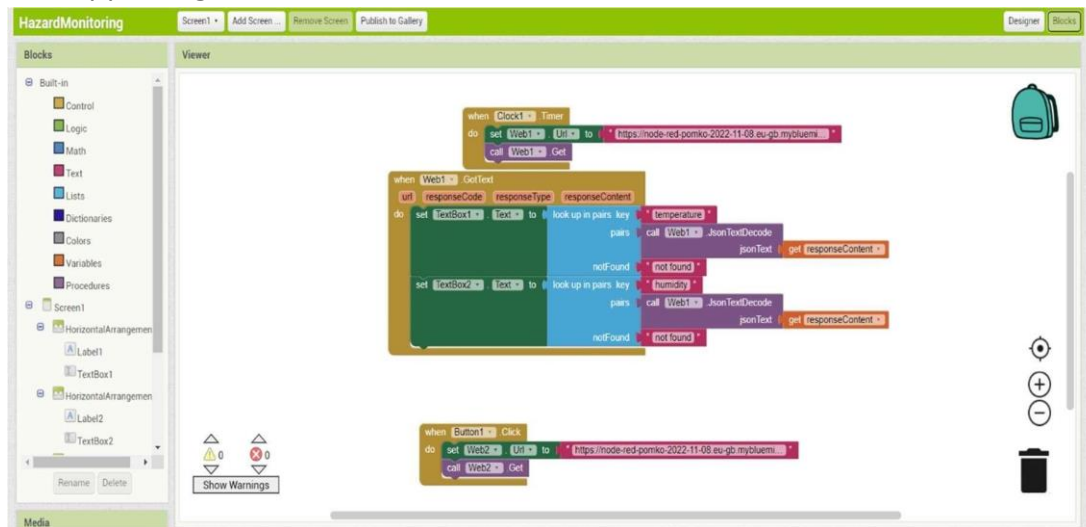
Cloudbant Database

```

noderedmfcnc20221108 > nodered/flow
[Save Changes] [Cancel] [Upload Attachment] [Clone Document] [Delete]
20 | },
21 | {
22 |   "id": "e515a92864bc3e86",
23 |   "type": "monitoring",
24 |   "name": "monitoring",
25 |   "keepalive": "60",
26 |   "servername": "",
27 |   "cleansession": true,
28 |   "appId": "",
29 |   "shared": false
30 | },
31 | {
32 |   "id": "771fe27741282e15",
33 |   "type": "ui_tab",
34 |   "name": "monitoring",
35 |   "icon": "dashboard",
36 |   "disabled": false,
37 |   "hidden": false
38 | },
39 | {
40 |   "id": "3b6d99b58eba55e",
41 |   "type": "ui_base",
42 |   "theme": {
43 |     "name": "theme-light",
44 |     "lightTheme": {
45 |       "default": "R0994C8",

```

## MIT App Design



### MIT AI2 Companion

MIT App Inventor

3.8 ★

24K reviews



17 MB

3+

Rated for 3+

D

Install



#### About this app



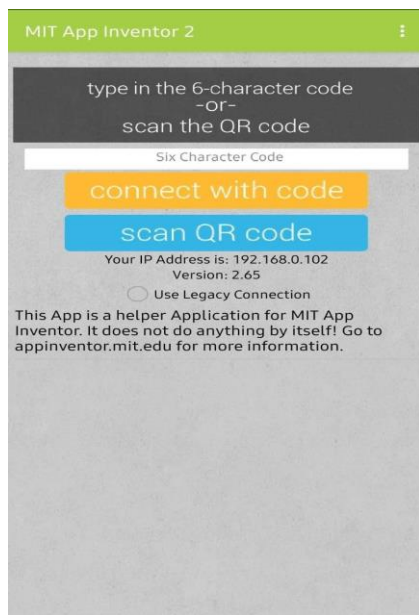
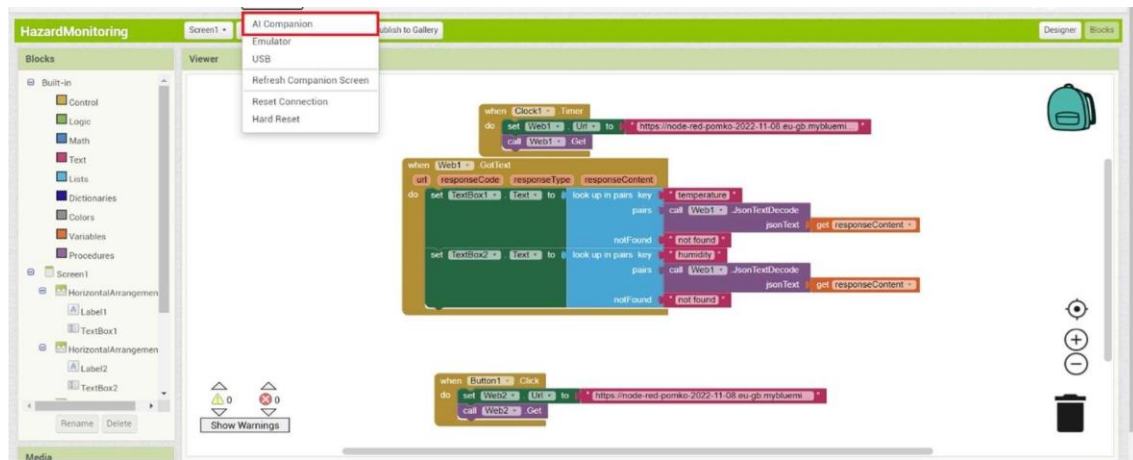
Develop your very own Android Applications using MIT App Inventor 2!

Education

#### Data safety



Safety starts with understanding how developers collect and share your data. Data privacy and security practices may vary based on your use, region and age. The developer provided this information and may update it over time.



**Monitoring & Control**

Temperature 76

Humidity 7

**Alert**

Node-RED interface showing a flow diagram and a debug console.

**Flow Diagram:**

- Flow 1:** Starts with an `inject` node, followed by a `debug` node, then a `complete` node, and finally a `catch` node.
- Flow 2:** Starts with an `inject` node, followed by a `temperature` node, then a `humidity` node, and finally a `msg.payload` node.
- Function:** A `function` node is connected to the `temperature` and `humidity` nodes. It outputs to an `http` node, which then connects to an `http` node.
- Alert:** An `Alert` node is connected to the `http` node, which then connects to an `msg.payload` node.

**Debug Console:**

```
Object
> { temp: 21, humidity: 24, oxygen: 87 }
11/11/2022, 1:40:50 PM node: bd0c9c77b6e15446
msg.payload: Object
> { command: "alert" }
11/11/2022, 1:40:51 PM node: 7f52101d5306683a
col-2/type/hazardous_monitoring/ishazard_report/v1to7Sensorfmt/json : msg.payload:
Object
> { temp: 8, humidity: 71, oxygen: 65 }
11/11/2022, 1:40:52 PM node: 7f52101d5306683a
col-2/type/hazardous_monitoring/ishazard_report/v1to7Sensorfmt/json : msg.payload:
Object
> { temp: 100, humidity: 32, oxygen: 17 }
11/11/2022, 1:40:53 PM node: 7f52101d5306683a
col-2/type/hazardous_monitoring/ishazard_report/v1to7Sensorfmt/json : msg.payload:
Object
> { temp: 60, humidity: 50, oxygen: 12 }
11/11/2022, 1:40:54 PM node: bd0c9c77b6e15446
msg.payload: Object
> { command: "alert" }
11/11/2022, 1:40:54 PM node: 7f52101d5306683a
col-2/type/hazardous_monitoring/ishazard_report/v1to7Sensorfmt/json : msg.payload:
Object
> { temp: 24, humidity: 82, oxygen: 29 }
```

**Python 3.7.0 Shell:**

```
2022-11-11 01:01:51.838 ibmiotf.device.Client INFO Connected successfully: d:\0a1rc:hazardous_monitoring:hazard_report
Published Temperature = 50 C humidity = 35 % alert to IBM Watson
Published Temperature = 4 C humidity = 20 % alert to IBM Watson
Published Temperature = 43 C humidity = 20 % alert to IBM Watson
Published Temperature = 50 C humidity = 68 % alert to IBM Watson
Published Temperature = 66 C humidity = 40 % alert to IBM Watson
Published Temperature = 94 C humidity = 65 % alert to IBM Watson
Published Temperature = 8 C humidity = 45 % alert to IBM Watson
Published Temperature = 4 C humidity = 55 % alert to IBM Watson
Published Temperature = 44 C humidity = 10 % alert to IBM Watson
Published Temperature = 55 C humidity = 60 % alert to IBM Watson
Published Temperature = 23 C humidity = 51 % alert to IBM Watson
Published Temperature = 76 C humidity = 76 % alert to IBM Watson
Published Temperature = 20 C humidity = 60 % alert to IBM Watson
Published Temperature = 51 C humidity = 30 % alert to IBM Watson
Command received: alert
Published Temperature = 29 C humidity = 23 % alert to IBM Watson
Published Temperature = 48 C humidity = 70 % alert to IBM Watson
Published Temperature = 88 C humidity = 94 % alert to IBM Watson
Command received: alert
Published Temperature = 13 C humidity = 68 % alert to IBM Watson
Published Temperature = 88 C humidity = 12 % alert to IBM Watson
Published Temperature = 53 C humidity = 67 % alert to IBM Watson
Published Temperature = 41 C humidity = 63 % alert to IBM Watson
Published Temperature = 87 C humidity = 30 % alert to IBM Watson
Published Temperature = 23 C humidity = 33 % alert to IBM Watson
Command received: alert
Published Temperature = 0 C humidity = 17 % alert to IBM Watson
Published Temperature = 57 C humidity = 78 % alert to IBM Watson
Published Temperature = 70 C humidity = 45 % alert to IBM Watson
Published Temperature = 74 C humidity = 82 % alert to IBM Watson
Published Temperature = 80 C humidity = 43 % alert to IBM Watson
Published Temperature = 40 C humidity = 41 % alert to IBM Watson
Published Temperature = 74 C humidity = 11 % alert to IBM Watson
Published Temperature = 18 C humidity = 41 % alert to IBM Watson
Published Temperature = 82 C humidity = 62 % alert to IBM Watson
Command received: alert
Published Temperature = 3 C humidity = 80 % alert to IBM Watson
Published Temperature = 71 C humidity = 76 % alert to IBM Watson
Published Temperature = 9 C humidity = 20 % alert to IBM Watson
Published Temperature = 86 C humidity = 27 % alert to IBM Watson
Command received: alert
Published Temperature = 60 C humidity = 42 % alert to IBM Watson
Published Temperature = 67 C humidity = 94 % alert to IBM Watson
Command received: alert
Published Temperature = 32 C humidity = 97 % alert to IBM Watson
Published Temperature = 60 C humidity = 71 % alert to IBM Watson
```