

# SPRINT-4

Team ID	PNT2022TMID02630
Project Name	Hazardous Area Monitoring for industrial Plant powered by IoT

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

The screenshot displays the Node-RED web interface in a browser. The main workspace shows two flows, Flow 1 and Flow 2. Flow 1 consists of a [get] /data node connected to a function node, which is then connected to an http node. Flow 2 consists of a [get] /command node connected to a function node, which is then connected to an http node. In the center, there is a 'JRM IoT' node with a 'connected' status. It is connected to 'LIGHT ON' and 'LIGHT OFF' nodes, which are both connected to a 'msg payload' node. The 'msg payload' node is connected to an http node. The right sidebar shows a 'debug' console with a list of messages, including timestamps, node IDs, and payloads. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 18:31 on 19-11-2022.

noderedmfcnc20221108 > nodered/flow

[ ] JSON [ ] [ ]

Save Changes Cancel Upload Attachment Clone Document Delete

```
20:   },
21:   {
22:     "id": "e515a02864bc3e06",
23:     "type": "ibmiot",
24:     "name": "monitoring",
25:     "keepalive": "60",
26:     "servername": "",
27:     "clean session": true,
28:     "appId": "",
29:     "shared": false
30:   },
31:   {
32:     "id": "f71fc27741282e15",
33:     "type": "ui_tab",
34:     "name": "monitoring",
35:     "icon": "dashboard",
36:     "disabled": false,
37:     "hidden": false
38:   },
39:   {
40:     "id": "3bb6d09b58eba55e",
41:     "type": "ui_base",
42:     "theme": {
43:       "name": "theme-light",
44:       "lightTheme": {
45:         "default": "W0894CE",
```



# MIT AI2 Companion

## MIT App Inventor

3.8 ★

24K reviews



17 MB

3+

Rated for 3+

D

Install



### About this app



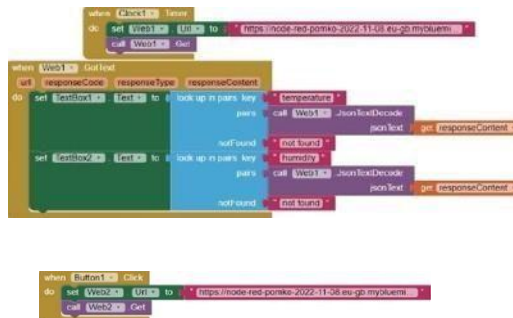
Develop your very own Android Applications using MIT App Inventor 2!

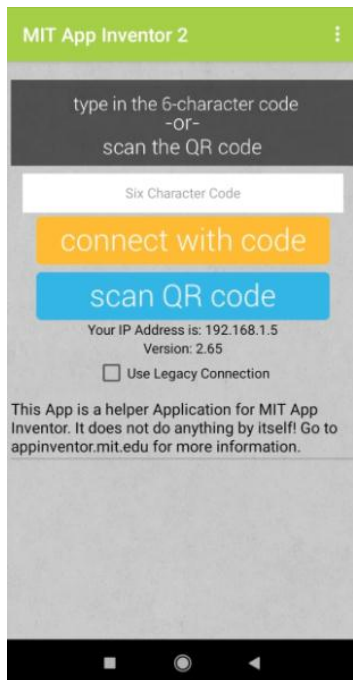
Education

### 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**

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
2022-11-11 01:01:51.838 IBMIoT.Device.Client INFO Connected successfully: drf0arlc:hazardous_monitoring:hazard_report
Published Temperature = 90 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 = 45 % 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 = 62 % 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
Ln:477 Col:4
```