

HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT

Team id: PNT2022TMID36143

Develop the web application using Node-RED Service

The screenshot displays the Node-RED web interface in a browser. The main workspace shows a flow named 'Flow 1' with several nodes and connections. The left sidebar contains a 'common' section with nodes like 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', and 'comment', and a 'function' section with a 'function' node. The central workspace features a 'msg.payload' node connected to a 'temp' node, which is further connected to a 'temperature' node. There are also 'hum' and 'air quality' nodes connected to 'humidity' and 'Air_quality' nodes respectively. Below these, there are 'sensor off' and 'sensor on' nodes connected to a 'msg.payload' node, which is then connected to a 'http' node. At the bottom, there are '[get] /command' and '[get] /sentry' nodes connected to a 'function' node, which is then connected to a 'http' node. The right sidebar shows a 'debug' console with a list of messages, including a timestamp '19/11/2022, 17:55:33' and a message object:

```
{ Air_quality: 50, humid: 67, temp: 0.2 }
```

. The bottom status bar shows the system time as 17:55 on 19-11-2022.

The screenshot displays a web browser window with the Node-RED interface. The browser's address bar shows the URL: `node-red-kzpv-2022-11-15.au-syd.mybluemix.net/ui/#/1/0?socketid=LGBpuT81yrNgoCqmAABa`. The interface has a blue header with the text "Hazard area". Below the header, there are three main panels:

- temperature**: A line graph titled "temp" showing a decreasing trend from approximately 25 to 0 over a time range from 17:54 to 17:55.
- Air_quality**: A line graph titled "mositure" (sic) showing a constant value of approximately 45 over the same time range.
- humidity**: A gauge chart titled "humidity" showing a value of 66 units. The gauge has a yellow arc and a needle pointing to 66 on a scale from 0 to 100.

Below these panels is a "control" section with two buttons: "SENSOR OFF" and "SENSOR ON". The bottom of the image shows a Windows taskbar with the date and time 17:56 on 19-11-2022, and a system tray with various icons including network, volume, and battery.