

Sprint-2

Date	10 November 2022
Team ID	PNT2022TMID06832
Project Name	Industry-Specific Intelligent Fire Management System

WOWKI PLATFORM:

The screenshot displays the WOKWI platform interface. On the left, a code editor shows an Arduino sketch for an ESP32. The code includes libraries for WiFi, MQTT, and DHT sensors. It defines a device type 'ESP32_Controller', a device ID 'PNTMID', and a token. The setup function initializes the DHT sensor and sets up the MQTT client. The loop function publishes temperature and humidity data to an MQTT topic, and triggers an alert if the temperature is greater than 38°C or humidity is less than 30%.

On the right, a simulation window shows a 3D model of the ESP32 board connected to a DHT sensor. Below the model, a console window displays the following output:

```
Connecting to.....
WiFi CONNECTED
IP address:
10.10.0.2
Reconnecting to jescj.messaging.internetofthings.ibmcloud.com
iot-2/cnd/test/fmt/string
subscribe to cmd ok

Temperature: 66.10°C
Humidity: 6.0%
---
Sending payload: {"temp":66.10,"ALERT!!":"temperature greater than 38"}
publish ok
Flame Status : Fire is Detected
Sending payload: {"hum":6.00,"ALERT!!":"humidity less than 30"}
publish ok
Gas Status : Gas leakage Detected
Sprinkler status : working
Exhaust fan Status : working
```

IBM CLOUD:

The screenshot displays the IBM Watson IoT Platform dashboard. The browser address bar shows the URL `jescoj.internetofthings.ibmcloud.com/dashboard/devices/browse`. The dashboard header includes the user profile `purni1812@gmail.com` and ID `jescoj`. The left sidebar contains navigation icons for various platform features.

The main content area shows a list of devices under the 'Browse' tab. The devices listed are:

- 12345 (Disconnected, NodeMCU, Device, 19 Oct 2022 00:46, purni1812@gmail.com)
- BME280_Sensor (Disconnected, ESP32_Controller, Device, 2 Nov 2022 04:48, purni1812@gmail.com)
- PURNI** (Connected, ESP32_Controller, Device, 9 Nov 2022 01:01, purni1812@gmail.com)
- PVSM (Disconnected, NodeMCU, Device, 10 Nov 2022 00:36, purni1812@gmail.com)

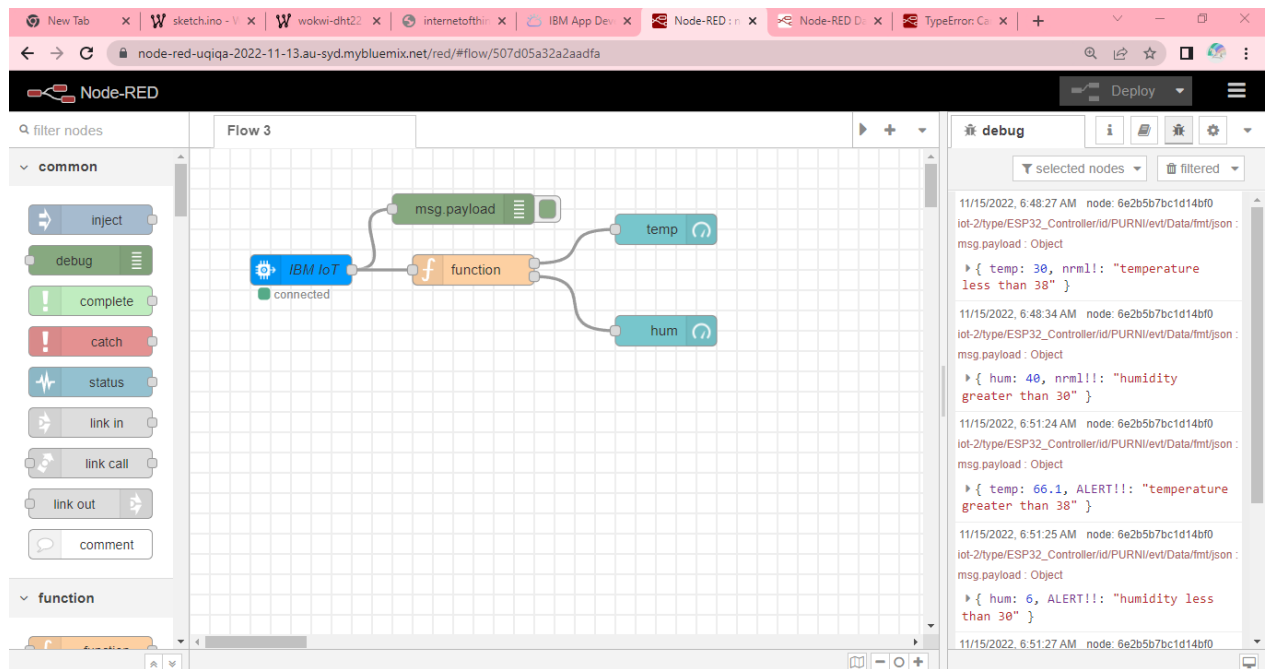
The 'PURNI' device is selected, and its details are shown in a modal window. The modal has tabs for Identity, Device Information, Recent Events, State, and Logs. The 'Recent Events' tab is active, displaying a live stream of data events.

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
Data	<code>{"hum":6,"ALERT!":{"humidity less than 30"}}</code>	json	a few seconds ago
Data	<code>{"temp":66.1,"ALERT!":{"temperature greater tha..."}}</code>	json	a few seconds ago

At the bottom of the modal, there is a pagination bar showing 'Items per page 50' and '1-4 of 4 items'. The main device list also has a pagination bar showing '1 of 1 page'.

NODE RED:



USER INTERFACE:

