

Project development phase(sprint – 2)

Team ID	PNT2022TMID30680
Project Name	Hazardous Area Monitoring For Industrial Plant Powered By IOT
Maximum Marks	20 Marks

Create a device using IBM IOT platform

The screenshot displays the IBM IoT Platform interface. On the left is a dark sidebar with navigation icons. The main content area has a top navigation bar with tabs: 'Browse', 'Action', 'Device Types', and 'Interfaces'. A blue 'Add Device' button with a plus icon is in the top right. Below the tabs is a table of devices. The first row shows a device with ID '12345', status 'Disconnected', type 'NodeMCU', and date 'Nov 8, 2022 12:25 AM'. The second row, which is highlighted in blue, shows a device with ID '123456', status 'Disconnected', type 'abcd', and date 'Nov 15, 2022 8:22 AM'. To the right of this row is a three-dot menu icon. Below the table, a detailed view for the selected device is shown, with tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Identity' tab is active, displaying fields: 'Device ID' (123456), 'Device Type' (abcd), 'Date Added' (Nov 15, 2022 8:22 AM), 'Added By' (732319106012@smartinternz.com), and 'Connection Status' (Disconnected). At the bottom of the interface, there is a status bar showing '1 Simulation running' and an 'Activate Windows' watermark.

Device ID	Device Type	Date Added	Added By	Connection Status
12345	NodeMCU	Nov 8, 2022 12:25 AM		Disconnected
123456	abcd	Nov 15, 2022 8:22 AM	732319106012@smartinternz.com	Disconnected

Generating Simulation:

Browse Action Device Types Interfaces Add Device +

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

Event	Value	Format	Last Received
event_1	{"randomNumber":33,"temp":71,"hum":88}	json	a few seconds ago
event_1	{"randomNumber":3,"temp":58,"hum":89}	json	a few seconds ago
event_1	{"randomNumber":10,"temp":30,"hum":89}	json	a few seconds ago
event_1	{"randomNumber":23,"temp":45,"hum":82}	json	a few seconds ago
event_1	{"randomNumber":30,"temp":42,"hum":86}	json	a few seconds ago

1 Simulation running

Activate Windows
Go to Settings to activate Windows.

Creating Node-Red:

Node-RED

Flow 1

function

- function
- switch
- change
- range
- template
- delay
- trigger
- filer
- OpenWhisk

network

- mqtt in
- mqtt out
- http in
- http response

timestamp

msg.payload

function

function

function

[get] /sensor

temp

hum

line chart temp hum

donut chart

debug

11/17/2022, 3:18:33 AM node: 14084c1e8dce2321
iot-2/type/abodid/123456/text/event_1first/json :
msg.payload : number
98

11/17/2022, 3:18:38 AM node: 14084c1e8dce2321
iot-2/type/abodid/123456/text/event_1first/json :
msg.payload : number
27

11/17/2022, 3:18:58 AM node: 14084c1e8dce2321
iot-2/type/abodid/123456/text/event_1first/json :
msg.payload : number
91

11/17/2022, 3:18:44 AM node: 14084c1e8dce2321
iot-2/type/abodid/123456/text/event_1first/json :
msg.payload : number
46

11/17/2022, 3:18:44 AM node: 14084c1e8dce2321
iot-2/type/abodid/123456/text/event_1first/json :
msg.payload : number
95

11/17/2022, 3:18:50 AM node: 14084c1e8dce2321
iot-2/type/abodid/123456/text/event_1first/json :
msg.payload : number
13

11/17/2022, 3:18:50 AM node: 14084c1e8dce2321
iot-2/type/abodid/123456/text/event_1first/json :
msg.payload : number
83

Microsoft Store

Type here to search

ENG 3:20 AM
IN 11/17/2022

Link using to get the output temp and hum





