

Project Development Phase

Sprint-2

Date	20 November 2022
Team ID	PNT2022TMID08255
Project Name	Signs with Smart Connectivity for Better Road Safety

Sprint Target:

Sprint	Functional Requirements	User Story Number	Task/User Story
Sprint-2	Software(iot Watson, Node-red)	USN-2	create device in the iot watson platform, workflow for iot scenarios using node red

Creating IoT device:

The screenshot displays the IBM Watson IoT Platform dashboard. The browser tabs at the top include 'Service Details - IBM Cloud', 'IBM Watson IoT Platform', 'Node-RED: 169.51.207.25', '169.51.207.25:31069/sensor', 'IBM-Project-11387-16593', and 'New Tab'. The address bar shows the URL 'nto8zt.internetofthings.ibmcloud.com/dashboard/devices/browse'. The dashboard header includes a navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces', and an 'Add Device' button. The main content area shows a table of recent events for a device. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. Below the table, there is a summary row for a device with ID '12345', status 'Disconnected', name 'abcd', type 'Device', and last received time '19 Nov 2022 5:19 PM'. The footer of the dashboard shows 'Items per page 50' and '1-2 of 2 items'. A status bar at the bottom indicates '1 Simulation running'.

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

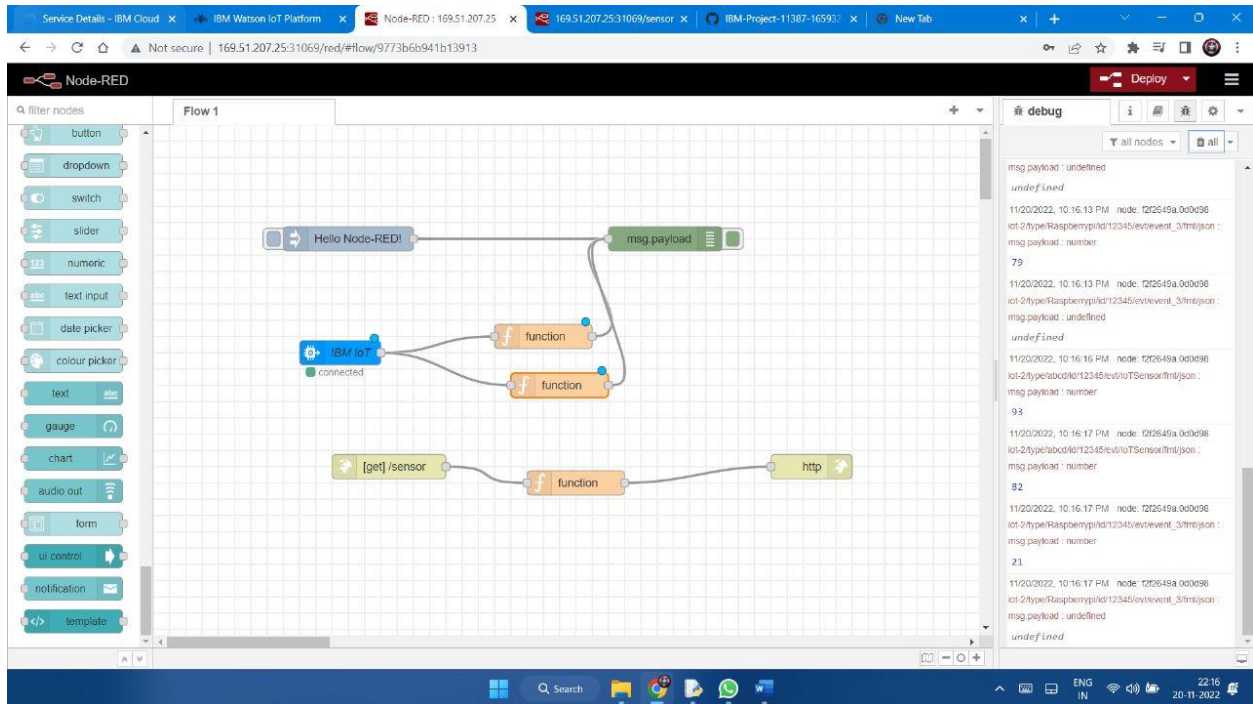
Event	Value	Format	Last Received
event_3	{"randomNumber":74,"temp":58,"hum":82}	json	a few seconds ago
event_3	{"randomNumber":30,"temp":11,"hum":84}	json	a few seconds ago
event_3	{"randomNumber":11,"temp":70,"hum":81}	json	a few seconds ago
event_3	{"randomNumber":91,"temp":32,"hum":100}	json	a few seconds ago
event_3	{"randomNumber":36,"temp":16,"hum":90}	json	a few seconds ago

> ☐ 12345 ☐ Disconnected abcd Device 19 Nov 2022 5:19 PM

Items per page 50 | 1-2 of 2 items 1 of 1 page < 1 >

1 Simulation running

Workflow For Iot Scenarios Using Node-Red:



Node-red Function Code:

The screenshot shows the Node-RED web interface. On the left, a palette of nodes is visible. The main workspace contains a flow with a 'Hello Node-RED!' node, an 'IBM IoT' node (labeled 'connected'), and a '[get]/sensor' node. The 'Edit function node' panel is open, showing the following code:

```
1 msg.payload = msg.payload.temp
2 global.set("t",msg.payload)
3 return msg;
```

The 'debug' console on the right shows a series of log messages, including 'msg.payload: undefined', 'undefined', and various timestamps and node IDs.

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```
1 msg.payload = msg.payload.Humid
2 global.set("h",msg.payload)
3 return msg;
```

The 'debug' console on the right shows a series of log messages, including 'msg.payload: number', '85', and various timestamps and node IDs.