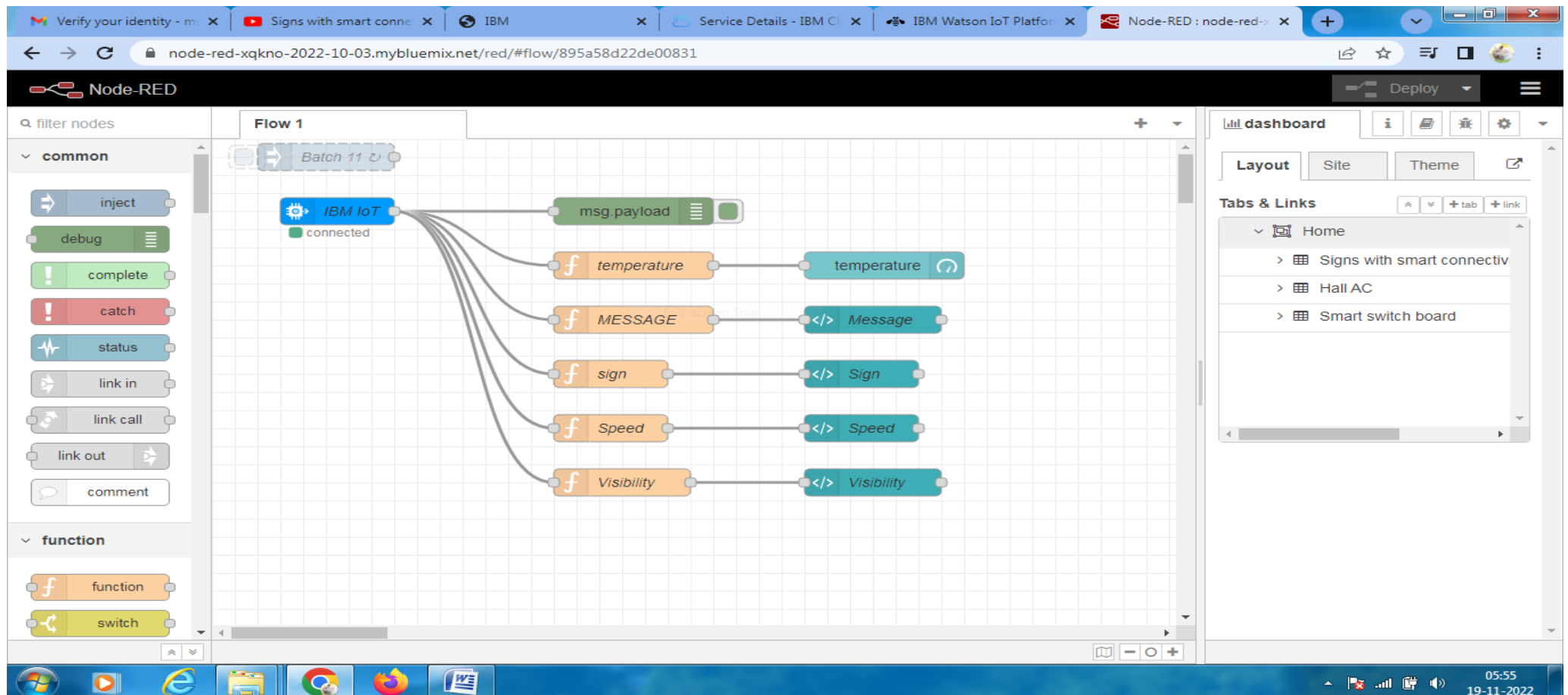


Project Milestone and Tasks
Develop A Web Application Using Node-RED Service
Create Node Red Flow To Send Data To Device

Date	24 October 2022
Team ID	PNT2022TMID41539
Project Name	Project-Signs with Smart Connectivity for Better Road Safety
Maximum marks	4 Marks

Node-Red flow created



Device connected

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL: `node-red-xqkno-2022-10-03.mybluemix.net/red/#flow/895a58d22de00831`. The interface is divided into several sections:

- Left Panel (Nodes):** Contains a search bar and two categories of nodes: **common** (inject, debug, complete, catch, status, link in, link call, link out, comment) and **function** (function, switch).
- Flow Canvas:** Shows a flow named "Flow 1" with a "Batch 11" node connected to an "IBM IoT" node. The "IBM IoT" node has a green "connected" status indicator. It is connected to several function nodes on the right.
- Right Panel (Edit ibmiot in node):** A configuration panel for the selected "IBM IoT" node. It includes a "Delete" button, "Cancel", and "Done" buttons. The "Properties" section lists the following settings:
 - Authentication: API Key
 - API Key: IBMIOT APIKEY
 - Input Type: Device Event
 - Device Type: ☒ All or +
 - Device Id: ☐ All or device id e.g. ab12cd231a21
 - Event: ☒ All or +
 - Format: ☐ All or json
 - QoS: 0
 - Name: IBM IoT
 - Service: registered
 - ☐ Enabled
- Dashboard Panel:** On the far right, there is a "dashboard" section with tabs for "Layout", "Site", and "Theme". Below these are "Tabs & Links" including "Home", "Signs with smart connectiv", "Hall AC", and "Smart switch board".

The Windows taskbar at the bottom shows the time as 23:57 on 18-11-2022, along with various system icons and application shortcuts.

Verify your identity - m x Signs with smart connect x IBM x Service Details - IBM Cl x IBM Watson IoT Platform x Node-RED : node-red-x

node-red-xqkno-2022-10-03.mybluemix.net/red/#flow/895a58d22de00831

Node-RED

filter nodes

Flow 1

Batch 11

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch

IBM IoT

connected

msg

ter

M

sig

Sp

Vis

Edit debug node

Delete Cancel Done

Properties

Output msg.payload

To ☒ debug window ☐ system console ☐ node status (32 characters)

Name Name

Enabled

dashboard

Layout Site Theme

Tabs & Links

- Home
 - Signs with smart connectiv
 - Hall AC
 - Smart switch board

05:56 19-11-2022

Node-RED output

The screenshot displays the Node-RED web interface in a browser. The main workspace shows a flow named "Flow 1" with the following components:

- Input:** A "Batch 11" node.
- Connector:** An "IBM IoT" node (status: connected).
- Function Nodes:** Six function nodes are connected to the IBM IoT node:
 - `msg.payload`
 - `temperature`
 - `MESSAGE`
 - `sign`
 - `Speed`
 - `Visibility`
- Output Nodes:** Each function node is connected to a corresponding output node:
 - `temperature` connects to a "temperature" node.
 - `MESSAGE` connects to a "Message" node.
 - `sign` connects to a "Sign" node.
 - `Speed` connects to a "Speed" node.
 - `Visibility` connects to a "Visibility" node.

The right-hand panel shows the "debug" console with the following log entries:

```
11/19/2022, 6:00:19 AM node: f2f2649a.0d0d98
iot-2/type/Board/id/20082001/evt/status/fmt/json :
msg.payload : Object
  { Temperature: 296.14, Message: "",
    Sign: "", Speed: "SPEED MESSAGE: SLOW
    DOWN, spee...", Visibility:
    "VISIBILITY: Clear Weather" }

11/19/2022, 6:00:24 AM node: f2f2649a.0d0d98
iot-2/type/Board/id/20082001/evt/status/fmt/json :
msg.payload : Object
  { Temperature: 296.14, Message: "",
    Sign: "", Speed: "SPEED MESSAGE: SLOW
    DOWN, spee...", Visibility:
    "VISIBILITY: Clear Weather" }

11/19/2022, 6:00:30 AM node: f2f2649a.0d0d98
iot-2/type/Board/id/20082001/evt/status/fmt/json :
msg.payload : Object
  { Temperature: 296.14, Message:
    "MESSAGE: SLOW DOWN, SCHOOL IS ...",
    Sign: "", Speed: "SPEED MESSAGE:
    Slow", Visibility: "VISIBILITY: Clear
    Weather" }
```

The bottom of the image shows the Windows taskbar with various application icons and the system clock indicating 06:01 on 19-11-2022.