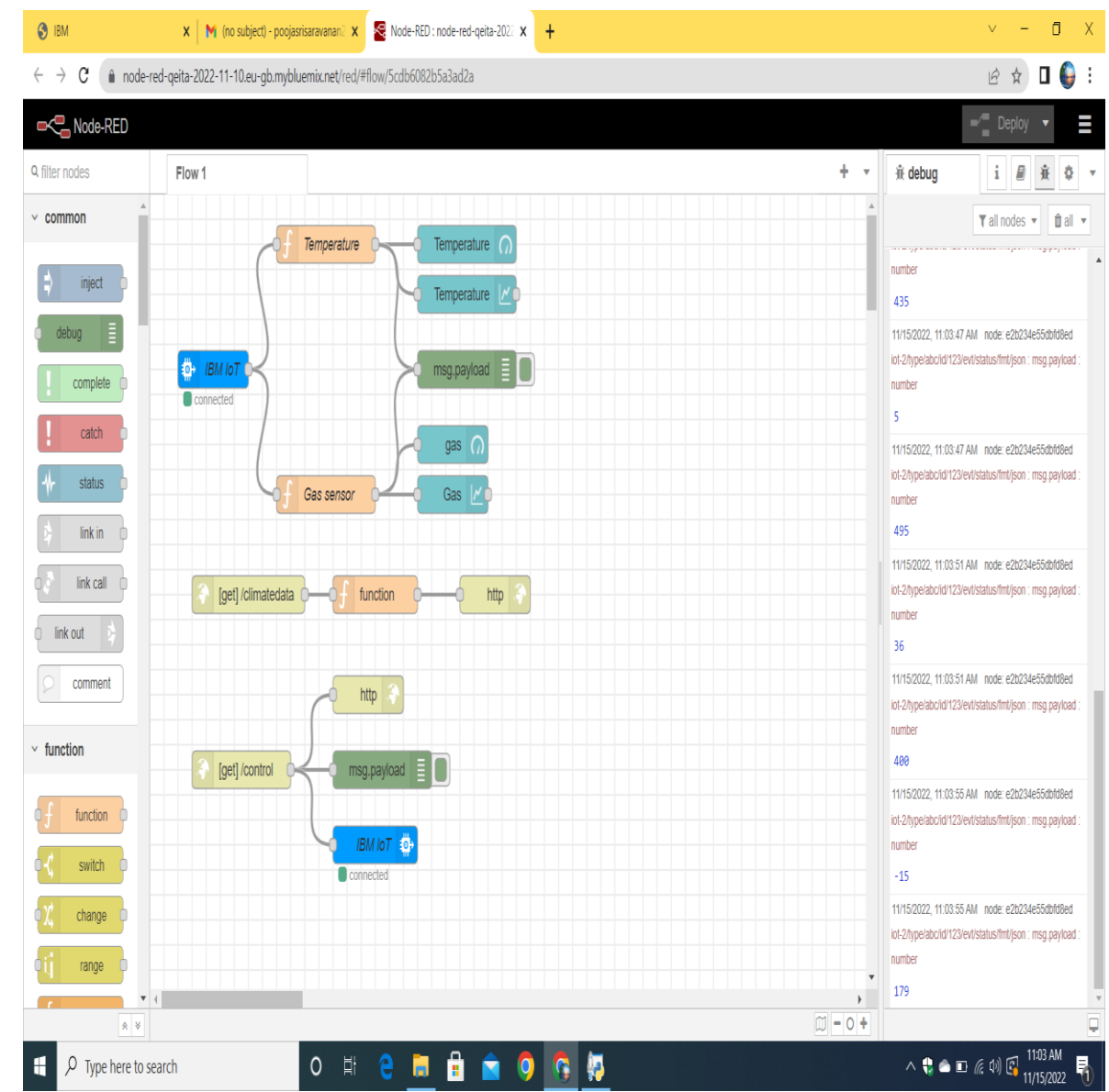


Develop the Web Application Using Node RED:

TEAM ID : PNT2022TMID40213

PROJECT NAME: Industry Specific Intelligent Fire Management

Configure the Node RED flow to receive data from the IBM IOT platform:



IBM x (no subject) - pojjasrisaravanan. x Node-RED : node-red-geita-2022. x

node-red-geita-2022-11-10.eu-gb.mybluemix.net/red/#flow/5c4b6082b5a3ad2a

Node-RED

Deploy

filter nodes

Flow 1

common

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

function

- function
- switch
- change
- range

Flow 1 Diagram:

```
graph LR
    IoT1[IBM IoT] --> TempF[Temperature]
    IoT1 --> GasS[Gas sensor]
    TempF --> TempC[Temperature]
    TempF --> TempG[Temperature]
    GasS --> GasC[Gas]
    GasS --> GasG[Gas]
    TempC --> MP1[msg.payload]
    TempG --> MP1
    GasC --> MP1
    GasG --> MP1
    MP1 --> HTTP1[http]
    HTTP1 --> IoT2[IBM IoT]
    IoT2 --> IoT3[IBM IoT]
```

Debug Console:

```
11/15/2022, 11:04:11 AM node: e2b234e55dbf08ed
iot-2/type/abolid/123/evl/status/fmt/json : msg.payload :
number
40

11/15/2022, 11:04:11 AM node: e2b234e55dbf08ed
iot-2/type/abolid/123/evl/status/fmt/json : msg.payload :
number
-7

11/15/2022, 11:04:15 AM node: e2b234e55dbf08ed
iot-2/type/abolid/123/evl/status/fmt/json : msg.payload :
number
27

11/15/2022, 11:04:15 AM node: e2b234e55dbf08ed
iot-2/type/abolid/123/evl/status/fmt/json : msg.payload :
number
27

11/15/2022, 11:04:19 AM node: e2b234e55dbf08ed
iot-2/type/abolid/123/evl/status/fmt/json : msg.payload :
number
60

11/15/2022, 11:04:19 AM node: e2b234e55dbf08ed
iot-2/type/abolid/123/evl/status/fmt/json : msg.payload :
number
-8

11/15/2022, 11:04:19 AM node: e2b234e55dbf08ed
iot-2/type/abolid/123/evl/status/fmt/json : msg.payload :
number
17
```

IOT Watson cloud output:

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes a 'Back' link and the title 'Device Drilldown - 123'. The left sidebar contains a menu with options: Connection Information, Recent Events (selected), State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area displays a table of recent events.

Event	Value	Format	Last Received
status	{"temp":31,"gas":241}	json	a few seconds ago
status	{"temp":22,"gas":463}	json	a few seconds ago
status	{"temp":4,"gas":382}	json	a few seconds ago
status	{"temp":49,"gas":422}	json	a few seconds ago
status	{"temp":37,"gas":500}	json	a few seconds ago

Below the table, there is a section for 'State' with a description: 'This table shows a list of data points that are reported by this device.' Below this, it says 'Showing Raw Data | No Interfaces Available'.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes a 'Back' link and the title 'Device Drilldown - 123'. The left sidebar contains a menu with options: Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs (selected), and Device Actions. The main content area displays a table of connection logs.

Token auth succeeded: ClientID='d:346x5j:abc:123', ClientIP=157.46.79.237, ClientPort=61892, ConnectionId=148584106	Nov 15, 2022 11:02 AM
Closed connection. The connection was closed by the client or network (5)	Nov 15, 2022 10:48 AM
Token auth succeeded: ClientID='d:346x5j:abc:123', ClientIP=157.46.79.237, ClientPort=61675, ConnectionId=148559634	Nov 15, 2022 10:44 AM
Closed connection. The connection was closed by the client or network (5)	Nov 14, 2022 9:20 PM
Closed connection. The connection was closed by the client or network (5)	Nov 14, 2022 9:20 PM
Token auth succeeded: ClientID='d:346x5j:abc:123', ClientIP=157.51.7.179, ClientPort=53295, ConnectionId=104095562	Nov 14, 2022 9:19 PM
Closed connection. The connection was closed by the client or network (5)	Nov 14, 2022 9:19 PM
Closed connection. The connection was closed by the client or network (5)	Nov 14, 2022 9:19 PM

Below the table, there is a section for 'Device Actions' with a description: 'If a device that is connected to Watson IoT Platform uses the Managed Device operation, the device can perform certain actions.' Below this, it says 'This device is not a managed device and cannot perform any device actions.' and provides a link to 'Learn more about device management and how to enable a managed device'.

