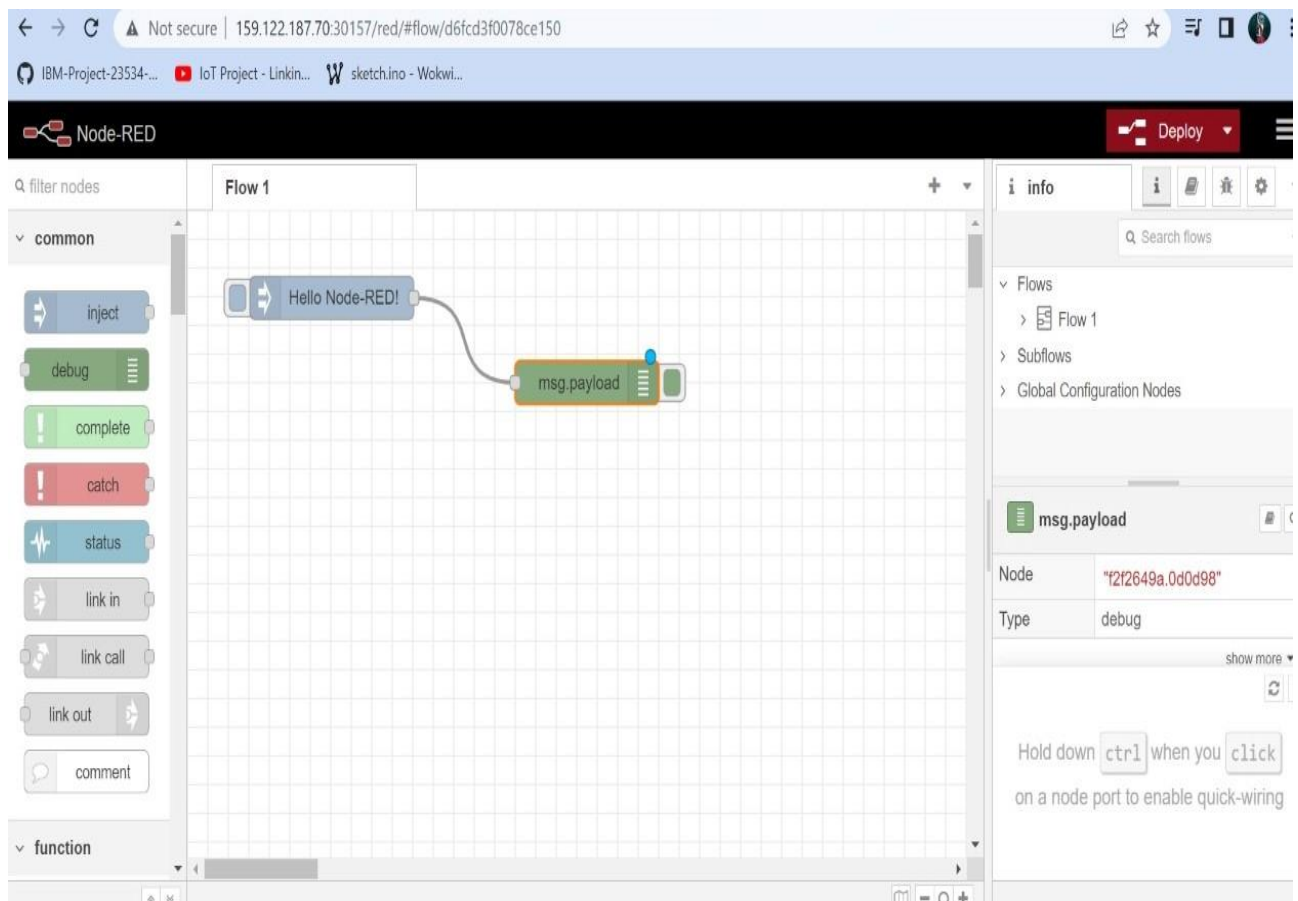
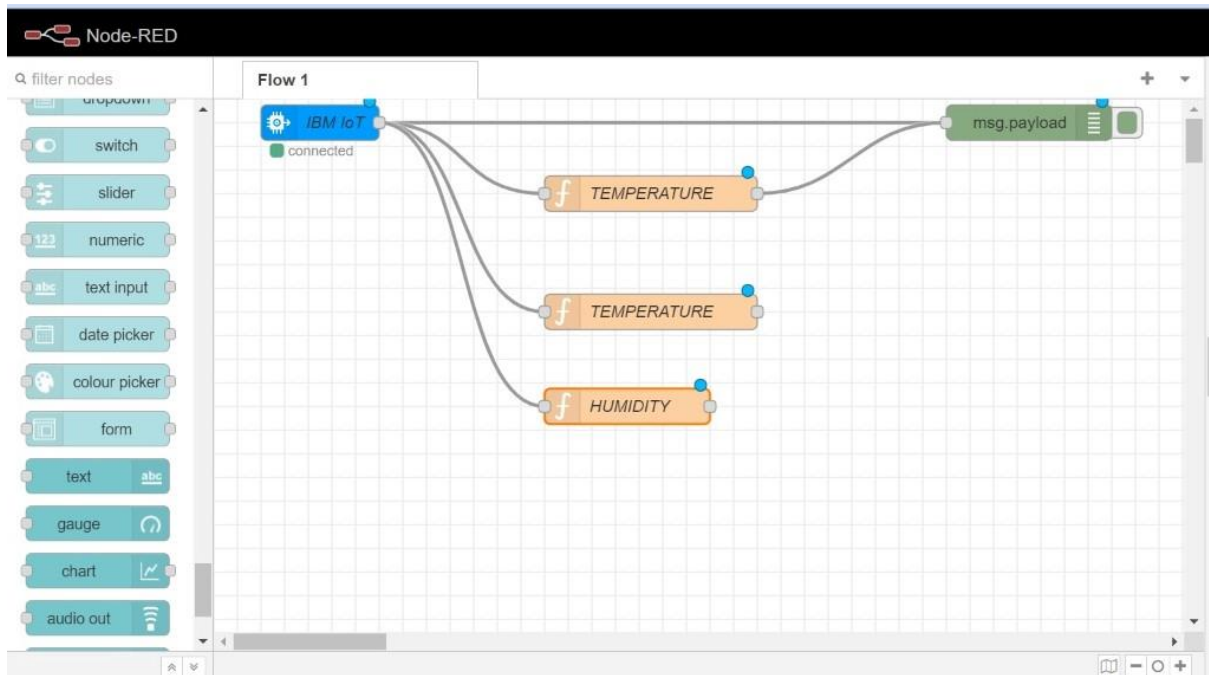


# DEVELOP THE WEB APPLICATION USING NODE-RED

<b>TEAM ID</b>	PNT2022TMID16047
<b>PROJECT NAME</b>	Hazardous area monitoring for industrial plant powered by IOT





The image shows the Node-RED web interface with the debug console open. The browser address bar shows the URL: `159.122.187.70:30157/red/#flow/d6fcd3f0078ce150`. The interface includes a sidebar with node categories, a central workspace with the 'Flow 1' diagram, and a right-hand panel with a 'debug' tab. The debug console displays a list of messages received from the IoT node, each containing a timestamp, a node ID, and a message payload. The messages are as follows:

Timestamp	Node ID	Message Payload
11/19/2022, 3:56:22 PM	0ca7792c69e61437	<code>{ temp: 93, Humid: 71 }</code>
11/19/2022, 3:56:22 PM	0ca7792c69e61437	<code>{ temp: 93, Humid: 71 }</code>
11/19/2022, 3:56:32 PM	0ca7792c69e61437	<code>{ temp: 108, Humid: 63 }</code>
11/19/2022, 3:56:32 PM	0ca7792c69e61437	<code>{ temp: 108, Humid: 63 }</code>
11/19/2022, 3:56:42 PM	0ca7792c69e61437	<code>{ temp: 94, Humid: 84 }</code>
11/19/2022, 3:56:42 PM	0ca7792c69e61437	<code>{ temp: 94, Humid: 84 }</code>

Node-RED interface showing a flow for processing IoT sensor data.

**Flow 1:**

- IBM IoT** (connected) node receives data from an IoT sensor.
- The data is split into three parallel processing paths:
  - TEMPERATURE** function node
  - TEMPERATURE** function node
  - HUMIDITY** function node
- The outputs of these three function nodes are combined into a single **msg.payload** object.

**Debug Console:**

```
11/19/2022, 3:56:22 PM 0ca7792c69e61437
iot-2/type/123/id/123/evt/loTSensor/fmt/json : msg.payload :
Object
  { temp: 93, Humid: 71 }

11/19/2022, 3:56:32 PM node: 0ca7792c69e61437
iot-2/type/123/id/123/evt/loTSensor/fmt/json : msg.payload :
Object
  { temp: 108, Humid: 63 }

11/19/2022, 3:56:32 PM node: 0ca7792c69e61437
iot-2/type/123/id/123/evt/loTSensor/fmt/json : msg.payload :
Object
  { temp: 108, Humid: 63 }

11/19/2022, 3:56:42 PM node: 0ca7792c69e61437
iot-2/type/123/id/123/evt/loTSensor/fmt/json : msg.payload :
Object
  { temp: 94, Humid: 84 }
```