

SPRINT 2

CREATING NODERED SERVICE

1. DEVELOPING IOT SENSOR DATA USING IBM IOT DEVICE:

The screenshot displays the IBM Watson IoT Platform interface. The main view is 'Browse Devices', showing a table of devices. A device with ID 123456, status 'Disconnected', and type 'ESP32' is highlighted. A modal window for 'Device Type: ESP32' is open, showing the 'Events' configuration. The 'Event type name' is 'event_1'. The 'Schedule' is set to '20' seconds 'Every Minute'. The 'Payload' is a JSON object with random values for 'temperature', 'humidity', and 'objectTemp'. Below the modal, the 'Recent Events' tab is selected, showing a table of events.

Device Table:

Device ID	Status	Device Type
123456	Disconnected	ESP32

Event Configuration Modal:

Device Type: ESP32

Events: 1

Event type name: event_1

Schedule: 20 Every Minute

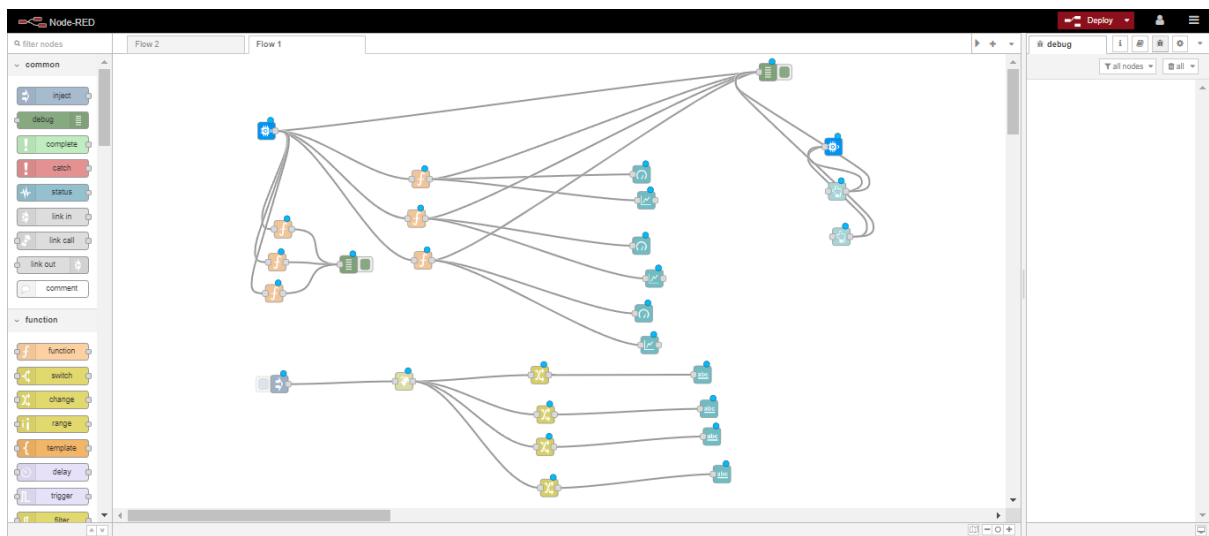
Payload:

```
{
  "temperature": random(0, 100),
  "humidity": random(0, 100),
  "objectTemp": random(0, 100)
}
```

Recent Events Table:

Event	Value	Format	Last Received
event_1	{"temperature":45,"humidity":3,"objectTemp":61}	json	a few seconds ago
event_1	{"temperature":3,"humidity":51,"objectTemp":77}	json	a few seconds ago
event_1	{"temperature":52,"humidity":57,"objectTemp":4...	json	a few seconds ago
event_1	{"temperature":37,"humidity":39,"objectTemp":8...	json	a few seconds ago
event_1	{"temperature":59,"humidity":1,"objectTemp":37}	json	a few seconds ago

2. DEVELOPING NODERED SERVICE:



JSON CODE:

```
[{"id":"7a2fa3a02cdd3c06","type":"tab","label":"Flow 1","disabled":false,"info":"","env":[]},{ "id":"691c50c6c14ec4ff","type":"ibmiot in","z":"7a2fa3a02cdd3c06","authentication":"apiKey","apiKey":"229144b14fd6ffc9","inputType":"evt","logicalInterface":"","ruleId":"","deviceId":"","applicationId":"","deviceType":"+","eventType":"+","commandType":"","format":"json","name":"IBM IoT","service":"registered","allDevices":true,"allApplications":"","allDeviceTypes":true,"allLogicalInterfaces":"","allEvents":true,"allCommands":"","allFormats":"","qos":0,"x":261.5078125,"y":130.5234375,"wires":[["0bb22e0da7c665f7","88c0e33c29223c14","b8ab86a43dc63003","cfec5cd4da5ceeae","250bc0ec57f88104","e474893207492313","dd1609c339df05ba"]], "l":false},{ "id":"0bb22e0da7c665f7","type":"debug","z":"7a2fa3a02cdd3c06","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":"false","statusVal":"","statusType":"auto","x":1114.8342771530151,"y":30.697031021118164,"wires":[], "l":false},{ "id":"88c0e33c29223c14","type":"function","z":"7a2fa3a02cdd3c06","name":"humidity","func":"msg.payload=msg.payload.humidity\\nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":523.8411273956299,"y":212.4296611755371,"wires":[["0bb22e0da7c665f7","8ee2d7339cd6334
```

```
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