

PROJECT DEVELOPMENT PHASE

SPRINT-2 CONNECTION (Interface Sensor)

Date	05 November 2022
Team ID	PNT2022TMID54475
Project Name	IoT Based Safety Gadget Child Monitoring and Notification
Maximum Marks	8 Marks

Device Details:

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various IoT functions. The main content area shows a table of devices with columns for Device ID, Status, Device Type, Class ID, and Date Added. Two devices are listed: 'demo1' and 'raspberrypi_1', both with a 'Connected' status. A search bar and a 'Device Simulator' toggle are also visible. The bottom of the screen shows a Windows taskbar with several open applications and a system clock indicating 16:13 on 05-11-2022.

Device ID	Status	Device Type	Class ID	Date Added
demo1	Connected	raspberrypi	Device	Nov 5, 2022 1:15 PM
raspberrypi_1	Connected	raspberrypi	Device	Nov 5, 2022 4:15 PM

Recent Events:

The screenshot shows the IBM Watson IoT Platform dashboard. The main panel displays a table of recent events for a device. The table has two columns: 'Event' and 'Value'. The events are all labeled 'event_1' and contain a 'randomNumber' property with various values.

Event	Value
event_1	{"randomNumber":59}
event_1	{"randomNumber":1}
event_1	{"randomNumber":92}
event_1	{"randomNumber":99}
event_1	{"randomNumber":52}

Below the table, it indicates 'Items per page 50' and '1-1 of 1 item'.

A modal window is open on the right, titled 'Device Type: raspberrypi'. It shows the configuration for an event type named 'event_1'. The 'Schedule' is set to 'Every Minute'. The 'Payload' is a JSON object with 'latitude' and 'longitude' properties, both set to random values between -90 and 90 and -180 and 180 respectively.

```
0 {
1   "latitude": random(-90,90),
2   "longitude": random(-180,180)
3 }
4 }
```

Node-Red Connection and Dashboard Design:

The screenshot shows the Node-RED interface. The main workspace displays a flow named 'Flow 1'. The flow starts with an 'IBM IoT' node, which connects to a 'function' node. This 'function' node branches into two paths: one leading to a 'msg.payload' node and another leading to a 'worldmap' node. The 'worldmap' node is connected to a 'geofence' node. The 'geofence' node connects to another 'function' node, which then connects to an 'rbe' node. The 'rbe' node connects to a 'msg.payload' node. This 'msg.payload' node connects to an 'http request' node, which then connects to a 'show notification' node. The 'show notification' node connects to a 'child' node. The 'child' node connects to a 'msg.payload' node. The 'child' node also connects to a 'switch' node. The 'switch' node branches into three paths, each leading to a 'function' node. Each of these 'function' nodes connects to a 'msg.payload' node.

The right sidebar shows the 'info' panel, which displays the flow's ID: 'a5dd56eddc42f3d3'. Below the flow ID, there is a message: 'You can confirm your changes in the node edit tray with ctrl+enter or cancel them with ctrl+escape'.