

# PROJECT DEVELOPMENT PHASE

## SPRINT-2 CONNECTION (Interface Sensor)

Date	05 November 2022
Team ID	PNT2022TMID49482
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. Below the table, a status bar indicates '2 Simulations running'. The bottom of the image shows a Windows taskbar with several open applications, including a Python script and several screenshot files.

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Add Device +

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator ☒ ☐ ☐

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	demo1	Connected	raspberrypi	Device	Nov 5, 2022 1:15 PM
> <input type="checkbox"/>	raspberrypi_1	Connected	raspberrypi	Device	Nov 5, 2022 4:15 PM

Items per page 50 | 1-2 of 2 items

1 of 1 page < 1 >

2 Simulations running

ibmiotpublishsubsc...py ibmiotpublishsubsc...py Screenshot (12).png Screenshot (11).png Screenshot (10).png Show all

16:13 05-11-2022

## Recent Events:

The screenshot shows the IBM Watson IoT Platform interface. 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 JSON payloads with a 'randomNumber' field.

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' fields, both set to random values between -90 and 90 and -180 and 180 respectively. There are buttons for 'Send', 'New event type', and 'Upload a CSV file'.

## Node-Red Connection and Dashboard Design:

The screenshot shows the Node-RED interface. The main workspace displays a flow diagram for '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 'msg.payload' node 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 left sidebar shows the 'common' and 'function' node categories. The right sidebar shows the 'info' panel with a search bar and a list of flows. The 'Flow 1' flow is selected, and its ID is displayed as 'a5dd56eddc42f3d3'.