

PROJECT DEVELOPMENT PHASE

SPRINT-2 CONNECTION (Interface Sensor)

Date	05 November 2022
Team ID	PNT2022TMID41578
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 various icons for navigation. The main content area shows a table of devices with the following columns: Device ID, Status, Device Type, Class ID, and Date Added. Two devices are listed: 'demo1' and 'raspberrypi_1', both with a 'Connected' status and 'raspberrypi' device type. Below the table, it indicates '2 Simulations running'. The bottom of the image shows a Windows taskbar with the date '05-11-2022' and time '16:13'.

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 view displays a table of events with columns 'Event' and 'Value'. The events are all labeled 'event_1' with various random number values. A modal window is open for creating a new event type, titled 'Device Type: raspberrypi'. The modal includes fields for 'Event type name' (set to 'event_1'), a 'Schedule' (set to 'Every Minute'), and a 'Payload' editor. The payload is a JSON object with 'latitude' and 'longitude' fields, each containing a random number function. A 'Send' button and an 'Upload a CSV file' button are also visible.

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

Items per page 50 | 1-1 of 1 item

Event type name: event_1

Schedule: 1 Every Minute

Payload:

```

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

```

Buttons: Send, Upload a CSV file

Node-Red Connection and Dashboard Design:

The screenshot shows the Node-RED web interface. The main workspace displays a flow diagram for 'Flow 1'. The flow starts with an 'IBM IoT' node, followed by a 'function' node, then a 'geofence' node, and a 'worldmap' node. The flow then branches into two paths: one through a 'function' node and an 'rbe' node, and another through a 'switch' node. Both paths lead to a 'msg.payload' node, which then connects to an 'http request' node, a 'show notification' node, and a 'child' node. The right sidebar shows the 'info' panel with a search bar and a list of flows, including 'Flow 1'.

Flow 1

Nodes in flow:

- IBM IoT (connected)
- function
- geofence
- worldmap (connected 0)
- function
- rbe
- switch
- msg.payload
- http request
- show notification
- child
- msg.payload

Right sidebar: info panel, Search flows, Flow 1, Flow ID: "a5dd56eddc42f3d3"

Footer: You can confirm your changes in the node edit tray with **ctrl-enter** or cancel them with **ctrl-escape**