

Project Development Phase Sprint-2: CONNECTION (Interface Sensor)

Date	31 October 2022
Team ID	PNT2022TMID41539
Project Name	Project – Signs with Smart Connectivity for Better Road Safety
Maximum Marks	8 Marks

Device Details:

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes the IBM logo and a user profile section with the email 621119106017@smartinternz.com and ID: 74k16v. The main content area is titled 'Browse' and contains a table of devices. The table has columns for Device ID, Status, Device Type, Class ID, and Date Added. There are four devices listed: demo123, demo333, raspberrypi_1, and raspberrypi_2. The status of demo123, demo333, and raspberrypi_1 is 'Disconnected', while raspberrypi_2 is 'Connected'. The device type for all is 'raspberrypi' and the class ID is 'Device'. The dates added are Oct 6, 2022 1:45 PM, Nov 1, 2022 3:19 PM, Nov 4, 2022 1:23 PM, and Nov 5, 2022 3:48 PM respectively. The bottom of the dashboard shows '1 Simulation running'.

Device ID	Status	Device Type	Class ID	Date Added
demo123	Disconnected	raspberrypi	Device	Oct 6, 2022 1:45 PM
demo333	Disconnected	raspberrypi	Device	Nov 1, 2022 3:19 PM
raspberrypi_1	Disconnected	raspberrypi	Device	Nov 4, 2022 1:23 PM
raspberrypi_2	Connected	raspberrypi	Device	Nov 5, 2022 3:48 PM

1 Simulation running

Recent Events

The screenshot shows the IBM Watson IoT Platform dashboard. The browser address bar displays the URL `dm86e1.internetofthings.ibmcloud.com/dashboard/devices/browse`. The dashboard header includes the IBM Watson IoT Platform logo, a user profile icon, and the email `621119106017@smartinternz.com` with ID `74k16v`. The main navigation bar has tabs for `Browse`, `Action`, `Device Types`, and `Interfaces`, along with an `Add Device` button. The `Browse` tab is active, showing a table of recent events. The table has four columns: `Event`, `Value`, `Format`, and `Last Received`. It displays five rows of event data, all labeled `event_1` with a `json` format and received 'a few seconds ago'. The table is followed by pagination controls showing 'Items per page 50' and '1-4 of 4 items'. At the bottom right, a status box indicates '1 Simulation running'. The Windows taskbar at the bottom shows the time as 16:22 on 05-11-2022.

Event	Value	Format	Last Received
event_1	<code>{"randomNumber":8,"speed":94,"humidity":77}</code>	json	a few seconds ago
event_1	<code>{"randomNumber":94,"speed":34,"humidity":76}</code>	json	a few seconds ago
event_1	<code>{"randomNumber":14,"speed":79,"humidity":72}</code>	json	a few seconds ago
event_1	<code>{"randomNumber":68,"speed":77,"humidity":71}</code>	json	a few seconds ago
event_1	<code>{"randomNumber":91,"speed":77,"humidity":90}</code>	json	a few seconds ago

Items per page 50 | 1-4 of 4 items

1 of 1 page

1 Simulation running

Node-Red Connection and Dashboard Design

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL: `node-red-blisi-2022-10-06.au-syd.mybluemix.net/red/#flow/48755da3f1069b9c`. The interface is divided into several sections:

- Left Panel (filter nodes):** A list of available nodes including `switch`, `slider`, `numeric`, `text input`, `date picker`, `colour picker`, `form`, `text`, `gauge`, `chart`, `audio out`, `notification`, `ui control`, and `template`.
- Top Panel (Road Safety):** The active workspace showing a flow diagram. The flow starts with an `IBM IoT` node (labeled "connected"). It branches into two paths:
 - Top Path:** `IBM IoT` → `speed` (function node) → `switch` (node) → `msg.payload` (node) and `go slowly` (node).
 - Bottom Path:** `IBM IoT` → `humidity` (function node) → `Humidity` (node).
- Bottom Panel:** A separate flow starting with a `welcome` node, followed by `http request`, `set msg timestamp`, and `msg` (node).
- Right Panel (debug):** A console showing log messages. The messages are filtered to show only those from the `go slowly` node. The messages include the date and time (11/5/2022, 4:21:55 PM), the node name (`go slowly`), and the payload (`msg.payload : number`).

The bottom of the image shows the Windows taskbar with various application icons and the system clock displaying 16:22 on 05-11-2022.