

PROJECT DEVELOPMENT PHASE

SPRINT-2 CONNECTION (Interface Sensor)

Date	05 November 2022
Team ID	PNT2022TMID49499
Project Name	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 923819104058@smartinternz.com and ID: dm86e1. 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 first three are 'Disconnected' and the last one is 'Connected'. A 'Device Simulator' toggle is visible on the right. 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

Recent Events:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A table displays recent events with columns for Event, Value, Format, and Last Received. Below the table, it indicates '1 Simulation running'.

Event	Value	Format	Last Received
event_1	{"randomNumber":8,"speed":94,"humidity":77}	json	a few seconds ago
event_1	{"randomNumber":94,"speed":34,"humidity":76}	json	a few seconds ago
event_1	{"randomNumber":14,"speed":79,"humidity":72}	json	a few seconds ago
event_1	{"randomNumber":68,"speed":77,"humidity":71}	json	a few seconds ago
event_1	{"randomNumber":91,"speed":77,"humidity":90}	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 shows the Node-RED interface with a flow titled 'Road Safety'. The flow starts with an 'IBM IoT' node connected to a 'speed' function node. The 'speed' node is connected to a 'switch' node. The 'switch' node has two outputs: one to a 'msg payload' node and another to a 'go slowly' node. The 'speed' node is also connected to a 'humidity' function node, which is connected to a 'Humidity' node. Below this, there is a 'welcome' node connected to an 'http request' node, which is connected to a 'set msg timestamp' node, and finally to a 'msg' node. The right sidebar shows the 'debug' console with logs for the 'msg payload' and 'go slowly' nodes.

Node-RED

Road Safety

filter nodes

IBM IoT

speed

switch

msg payload

go slowly

humidity

Humidity

welcome

http request

set msg timestamp

msg

debug

2/type/raspberry2/raspberry2/ev/ev/1/fmt/json
: msg payload : number
77

11/5/2022, 4:21:55 PM node: go slowly
iot-

2/type/raspberry2/raspberry2/ev/ev/1/fmt/json
: msg payload : number
59

11/5/2022, 4:21:58 PM node: 6c208725f387d566
iot-

2/type/raspberry2/raspberry2/ev/ev/1/fmt/json
: msg payload : number
31

11/5/2022, 4:22:01 PM node: go slowly
iot-

2/type/raspberry2/raspberry2/ev/ev/1/fmt/json
: msg payload : number
90

11/5/2022, 4:22:04 PM node: 6c208725f387d566
iot-

2/type/raspberry2/raspberry2/ev/ev/1/fmt/json
: msg payload : number
37