

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 several open browser tabs. The main header shows the user's email (923819104058@smartinternz.com) and ID (dm86e1). The dashboard is divided into sections: 'Browse', 'Action', 'Device Types', and 'Interfaces'. A blue 'Add Device' button is visible in the top right. Below the navigation bar, a text block explains that the table shows a summary of all devices and can be filtered or searched. A search bar labeled 'Search by Device ID' is present. To the right of the search bar, there is a 'Device Simulator' toggle switch and a filter icon. The main content area features a table with the following columns: Device ID, Status, Device Type, Class ID, and Date Added. The table lists three devices: 'demo123' (Disconnected), 'demo333' (Disconnected), and 'raspberrypi_2' (Connected). At the bottom of the table, it indicates 'Items per page 50' and '1-3 of 3 items'. A pagination bar shows '1 of 1 page' with navigation arrows. Below the table, a box indicates '1 Simulation running'. The bottom of the screenshot shows the Windows taskbar with the date and time (16:09, 07-11-2022).

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_2	Connected	raspberrypi	Device	Nov 7, 2022 3:23 PM

Recent Events:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area is titled 'Recent Events' and displays a table of events. The table has four columns: 'Event', 'Value', 'Format', and 'Last Received'. The events listed are 'event_1' with values like '{"speed":52}', '{"speed":80}', '{"speed":82}', and '{"speed":98}', all in 'json' format, received 'a few seconds ago'. A status bar at the bottom indicates '1 Simulation running'.

Event	Value	Format	Last Received
event_1	{"speed":52}	json	a few seconds ago
event_1	{"speed":80}	json	a few seconds ago
event_1	{"speed":82}	json	a few seconds ago
event_1	{"speed":98}	json	a few seconds ago

Node-Red Connection and Dashboard Design:

The screenshot shows the Node-RED interface. The main workspace displays a flow named 'Flow 2'. The flow starts with a 'timestamp' node, followed by a 'Madurai' node. This is followed by a series of 'function' nodes that process the data. The output of the functions is sent to various 'msg.payload' nodes, which are then connected to a 'Drive Speed' node. The 'Drive Speed' node is connected to an 'IBM IoT' node, which is marked as 'connected'. The right sidebar shows a 'debug' console with a list of messages, including timestamps, node IDs, and payloads like '1.54', '30', '62', 'Haze', and 'DUE TO THE HEAVY RAIN, PLEASE DECREASE SPEED 20 TO 30'.