

Team ID	PNT2022TMID42646
Project Name	Smart farmer - IoT Enabled smart farming application.

IBM Watson

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar labeled 'Search by Device ID' is present. The main content area shows a table of devices, with one device 'iot_device_1' selected. Below the table, a modal window displays 'Recent Events' for the selected device, showing a stream of JSON data. A status bar at the bottom indicates '1 Simulation running'.

IBM Watson IoT Platform

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Add Device +

Device Simulator ☒

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
iot_device_1	Connected	iot_device	Device	Nov 12, 2022 3:57 PM	

Identity Device Information **Recent Events** State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	{"temperature":12,"humidity":10,"soil_moisture"...	json	a few seconds ago
event_1	{"temperature":32,"humidity":30,"soil_moisture"...	json	a few seconds ago
event_1	{"temperature":47,"humidity":33,"soil_moisture"...	json	a few seconds ago
event_1	{"temperature":7,"humidity":33,"soil_moisture":...	json	a few seconds ago

1 Simulation running

Python Script.pdf Sprint 3 Report.pdf Screenshot_2021...jpg IBM Watson & N....docx App_develop.aia Show all

Node-Red

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL: `node-red-ogtdt-dj.eu-gb.mybluemix.net/red/#flow/4787e0dd9ea62e2b`. The interface is divided into several sections:

- Left Panel:** Contains a search bar and two categories of nodes: **common** (inject, debug, complete, catch, status, link in, link call, link out, comment) and **function** (function, switch, change, range, template).
- Flow Editor:** The main workspace showing a flow diagram. It includes:
 - Flow 2:** Starts with a `smartfarmer_db` node connected to an `IBM IoT` node (labeled "connected"). This node branches into three parallel paths, each passing through a function node (`f`) labeled "Temperature", "Humidity", and "Soil Moisture" respectively, before reaching output nodes.
 - Flow 3:** Contains a `MotorON` node connected to a `msg_payload` node, and a `MotorOFF` node connected to an `IBM IoT` node (labeled "connected").
 - Flow 1:** Features a `[get]/control` node connected to a function node (`f`), which then connects to an `http` node. Below this, a `[get]/data` node connects to another function node (`f`) and then to an `http` node.
 - Bottom:** An `inject` node is connected to a `smartfarmer_db` node, which then connects to a `msg payload` node.
- Right Panel:** The **debug** console, showing a list of messages. The first message is a red error: `"JSON Message expected"`. Subsequent messages are `node: msg_payload` with payloads like `msg.payload : string[7]` and `"motoron"`.

At the bottom of the browser window, there are tabs for `Screenshot_2021...jpg`, `IBM Watson & N....docx`, and `App_developa.aia`, along with a `Show all` button.