

## PROJECT DEVELOPMENT PHASE

### SPRINT-2 CONNECTION (Interface Sensor)

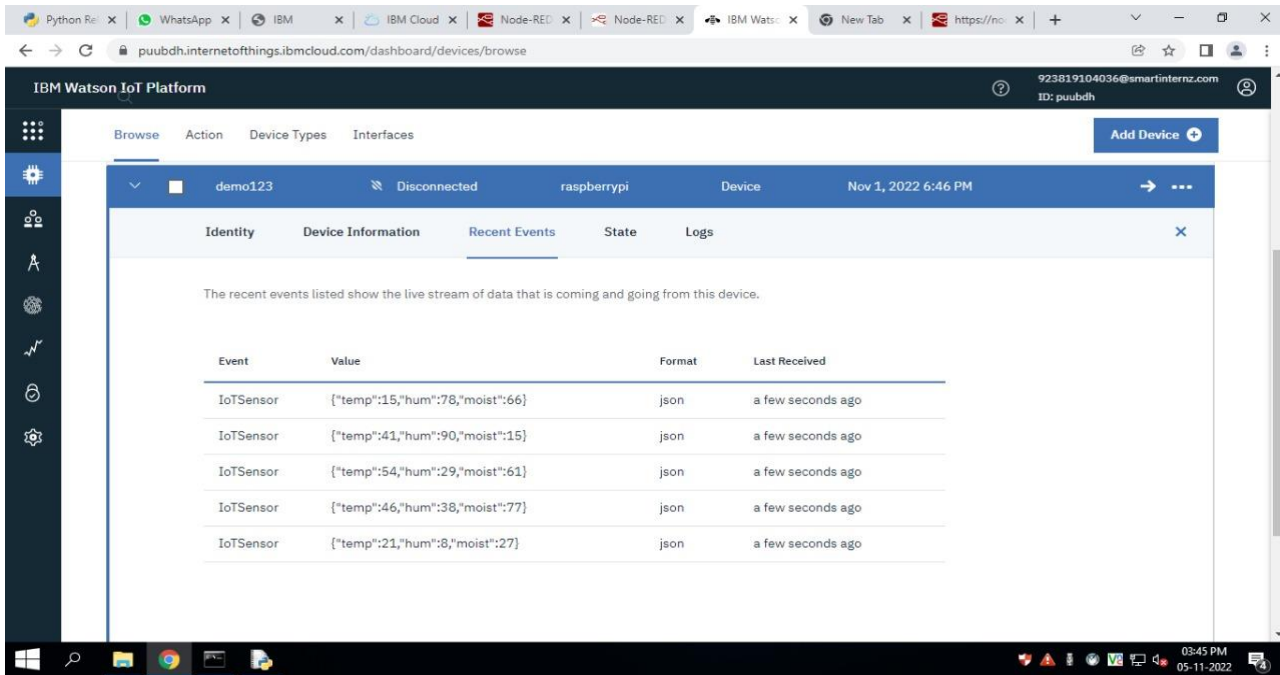
Date	05 November 2022
Team ID	PNT2022TMID49497
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	8 Marks

### 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 columns for 'Device ID', 'Status', 'Device Type', 'Class ID', and 'Date Added'. Two devices are listed: 'demo123' (Connected) and 'raspberrypi\_1' (Disconnected). The dashboard also includes a search bar, a 'Device Simulator' toggle, and pagination controls.

Device ID	Status	Device Type	Class ID	Date Added
demo123	Connected	raspberrypi	Device	Nov 1, 2022 6:46 PM
raspberrypi_1	Disconnected	raspberrypi	Device	Nov 4, 2022 6:38 PM

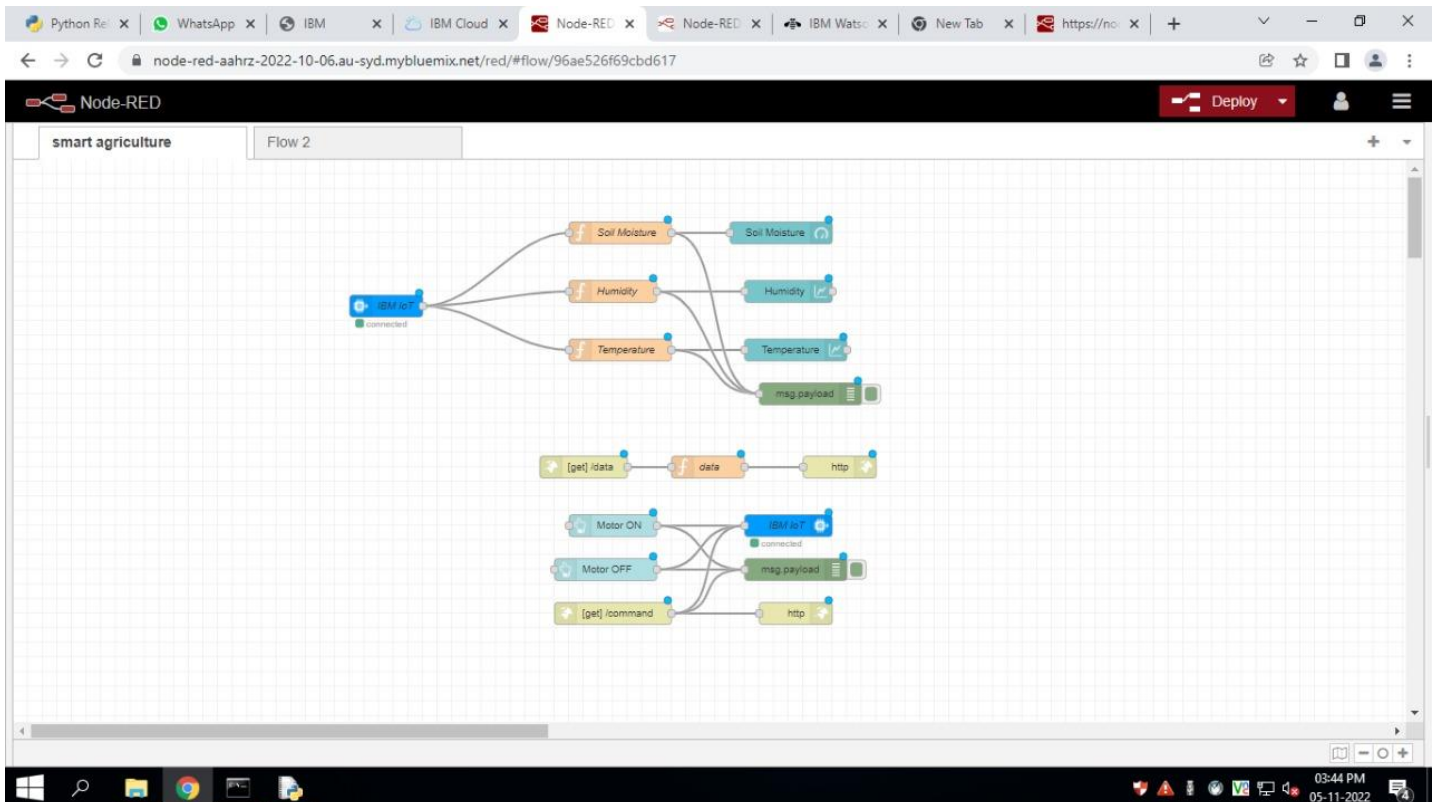
## Recent Events:



The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons. The main content area displays the 'demo123' device, which is 'Disconnected' and a 'raspberrypi'. The 'Recent Events' tab is selected, showing a table of live stream data.

Event	Value	Format	Last Received
IoTSensor	{"temp":15,"hum":78,"moist":66}	json	a few seconds ago
IoTSensor	{"temp":41,"hum":90,"moist":15}	json	a few seconds ago
IoTSensor	{"temp":54,"hum":29,"moist":61}	json	a few seconds ago
IoTSensor	{"temp":46,"hum":38,"moist":77}	json	a few seconds ago
IoTSensor	{"temp":21,"hum":8,"moist":27}	json	a few seconds ago

## Node-Red Connection and Dashboard Design:



The screenshot shows the Node-RED web interface. The top navigation bar includes 'Deploy', 'Add', and 'Menu' icons. The main content area displays a flow titled 'smart agriculture'. The flow starts with an 'IBM IoT' node connected to three output nodes: 'Soil Moisture', 'Humidity', and 'Temperature'. These nodes are connected to a 'msg.payload' node. Below this, there is a 'data' node connected to an 'http' node. Further down, there are 'Motor ON' and 'Motor OFF' nodes connected to a 'msg.payload' node, which is also connected to an 'http' node.