

SPRINT 3

Date	12 November 2022
Team ID	PNT2022TMID53631
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
Maximum Marks	8 Marks

Simulation:

Sending temperature and humidity values from IBM Watson to Node-Red.

Temperature and Humidity Values in IBM Watson:

Browse
Action Device Types Interfaces
Add Device ➕

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
	12345	● Connected	NodeMCU	Device	Sep 24, 2022 3:36 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
IoTSensor	{"d":{"temp":51.4,"humidity":86}}	json	a few seconds ago
IoTSensor	{"d":{"temp":51.4,"humidity":86}}	json	a few seconds ago
IoTSensor	{"d":{"temp":51.4,"humidity":86}}	json	a few seconds ago
IoTSensor	{"d":{"temp":51.4,"humidity":86}}	json	a few seconds ago
IoTSensor	{"d":{"temp":51.4,"humidity":86}}	json	a few seconds ago

Temperature and Humidity Values in Node-Red:

The screenshot displays the Node-RED web interface. On the left, the 'filter nodes' sidebar shows various input and output nodes. The main workspace contains a flow titled 'Flow 1'. The flow starts with a 'tcp in' node connected to an 'IBM IoT' node. The 'IBM IoT' node is connected to three output nodes: 'Temperature', 'Humidity', and 'msg.payload'. The 'Temperature' and 'Humidity' nodes are connected to their respective output nodes. The 'msg.payload' node is connected to a 'function' node. The 'function' node is connected to an 'http' node. The 'Light ON' and 'Light off' nodes are connected to the 'function' node. The 'function' node is also connected to the 'msg.payload' node. The 'msg.payload' node is connected to an 'IBM IoT' node. The 'IBM IoT' node is connected to a 'http' node. The 'http' node is connected to a 'msg.payload' node. The 'msg.payload' node is connected to a 'split' node. The 'split' node is connected to a 'join' node. The 'join' node is connected to a 'sort' node. The right sidebar shows the 'debug' console with logs of the data being processed.