

**Smart Farmer-IOT Enabled  
Smart Farming  
Application**

**Project  
Development  
Phase**

**Sprint Delivery -  
2**

<b>Date</b>	31 October 2022
<b>Team ID</b>	PNT2022TMID33827
<b>Project Name</b>	Smart Farmer-IOT Enabled Smart Farming Application
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**Software:**

- **Create device in the iot watson platform:**

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. The main content area displays a table with columns: Device ID, Status, Device Type, Class ID, and Date Added. The first row shows a device with ID 123456, Status 'Disconnected', Device Type 'abcdef', Class ID 'Device', and Date Added '19 Nov 2022 07:14'. Below the table, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Device Information' tab is active, showing details: Device ID (123456), Device Type (abcdef), Date Added (19 Nov 2022 07:14), Added By (950819106021@smartinternz.com), and Connection Status (Disconnected). The connection status details include: Last Connected: 19 Nov 2022 20:11, Client Address: 50.31.197.64 Insecure, Duration: a few seconds, and Data Transferred: 377 B. A '1 Simulation running' indicator is visible at the bottom right of the device details panel.

The screenshot shows the IBM Watson IoT Platform dashboard with the 'Recent Events' tab selected for device 123456. The tab displays a message: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this message is a table with columns: Event, Value, Format, and Last Received. The table contains five rows of event data:

Event	Value	Format	Last Received
event_1	{"randomNumber":95,"temp":92,"Humid":64}	json	a few seconds ago
event_1	{"randomNumber":46,"temp":94,"Humid":70}	json	a minute ago
event_1	{"randomNumber":14,"temp":109,"Humid":90}	json	2 minutes ago
event_1	{"randomNumber":21,"temp":105,"Humid":63}	json	3 minutes ago
event_1	{"randomNumber":56,"temp":92,"Humid":62}	json	4 minutes ago

A '1 Simulation running' indicator is visible at the bottom right of the device details panel.

- **Workflow for iot scenarios using local node red:**

node-red-humln-2022-11-19.eu-gb.mybluemix.net/red/#flow/dc53f202c9cc38dd

Node-RED

Flow 1

Flow 2

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function

Flow 1 nodes:

- IBM IoT (connected)
- Temp (function)
- Humid (function)
- Motor ON
- Motor OFF
- MIT APP

Flow 2 nodes:

- msg payload
- Temp (function)
- Humid (function)
- IBM IoT (connected)
- msg payload
- mit (function)
- http

debug

11/19/2022, 8:51:27 PM node: f2f2649a.0d0d98  
iot-2?type/abcode/id/123456/ev/evnt\_1/fmt/json :  
msg.payload : number  
106

11/19/2022, 8:51:28 PM node: f2f2649a.0d0d98  
iot-2?type/abcode/id/123456/ev/evnt\_1/fmt/json :  
msg.payload : number  
76

11/19/2022, 8:51:40 PM node: f2f2649a.0d0d98  
iot-2?type/abcode/id/123456/ev/evnt\_1/fmt/json :  
msg.payload : Object  
{ randomNumber: 51, temp: 91,  
Humid: 96 }

11/19/2022, 8:51:40 PM node: f2f2649a.0d0d98  
iot-2?type/abcode/id/123456/ev/evnt\_1/fmt/json :  
msg.payload : number  
91

11/19/2022, 8:51:41 PM node: f2f2649a.0d0d98  
iot-2?type/abcode/id/123456/ev/evnt\_1/fmt/json :  
msg.payload : number  
96

Type here to search

28°C

08:52 PM  
19-11-2022