

Project Development Phase

Sprint-4

Web Application IBM Watson Simulator Data Testing

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Team ID	PNT2022TMID16804
Project Name	Smart Farmer IOT Enabled Smart FarmingApplication

Open IBM Watson IOT Platform and Simulate the Created Device

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main heading is 'Browse Devices'. Below this, there are tabs for 'All Devices' and 'Diagnose'. A descriptive text states: 'This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.' Below the text is a search bar labeled 'Search by Device ID' and a 'Device Simulator' toggle switch. The table lists the following devices:

Device ID	Status	Device Type	Class ID	Date Added
smartfarm	Disconnected	sf	Device	13 Nov 2022 13:46
temp	Disconnected	Temp	Device	7 Nov 2022 22:25
uvsensor	Disconnected	Distance	Device	25 Oct 2022 23:07

The Simulated Data will be shown in Device Recent Events

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Recent Events' tab is selected, showing a table of events. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The events are listed as 'event_1' with various JSON payloads. A simulation running is indicated at the bottom.

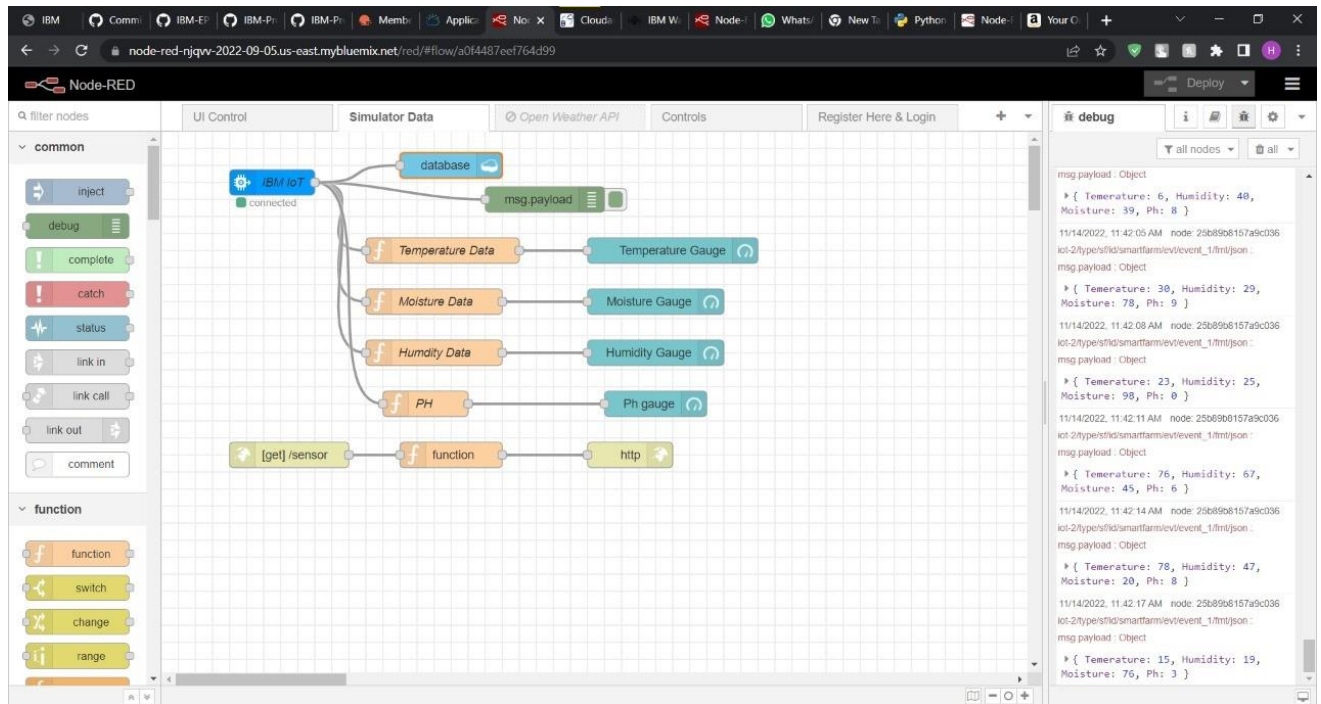
Event	Value	Format	Last Received
event_1	{"Temperature":2,"Humidity":99,"Moisture":83,"P..."}	json	a few seconds ago
event_1	{"Temperature":21,"Humidity":62,"Moisture":55,"..."}	json	a few seconds ago
event_1	{"Temperature":7,"Humidity":50,"Moisture":96,"P..."}	json	a few seconds ago
event_1	{"Temperature":28,"Humidity":12,"Moisture":93,"..."}	json	a few seconds ago
event_1	{"Temperature":95,"Humidity":99,"Moisture":40,"..."}	json	a few seconds ago

1 Simulation running

The screenshot displays the IBM Watson IoT Platform interface with the 'Device Types' tab selected. A modal window is open for configuring a device type named 'sf'. The 'Events' section shows a table of events. The 'Payload' section contains a JSON schema for the event payload.

Event type name	Schedule	Payload
event_1	20 Every Minute	<pre>{ 0: { 1: "Temperature": random(0, 100), 2: "Humidity": random(0, 100), 3: "Moisture": random(0, 100), 4: "Ph": random(0, 10), 5: } }</pre>

Then the Device Recent Event Data's Will Shown in Node-RED



The screenshot shows a browser window displaying the Node-RED interface. The address bar shows the URL: `node-red-njqvw-2022-09-05.us-east.mybluemix.net/sensor`. The main content area displays a JSON object representing sensor data:

```
{ "temp": 28.5, "humid": 65, "moist": 60, "Ph": 5 }
```