

SPRINT 2

Date	10 November 2022
Team ID	PNT2022TMID36144
Project Name	Smart Farmer- IOT Enabled Smart Farming Application

Task:

Create Device in the iot Watson platform, workflow for iot scenarios using node-red

Step 1:

Create Device in IBM Watson platform,

organization = "w1v28e"

deviceType = "raspberrypi"

deviceId = "sk40"

authToken = "110319106040"

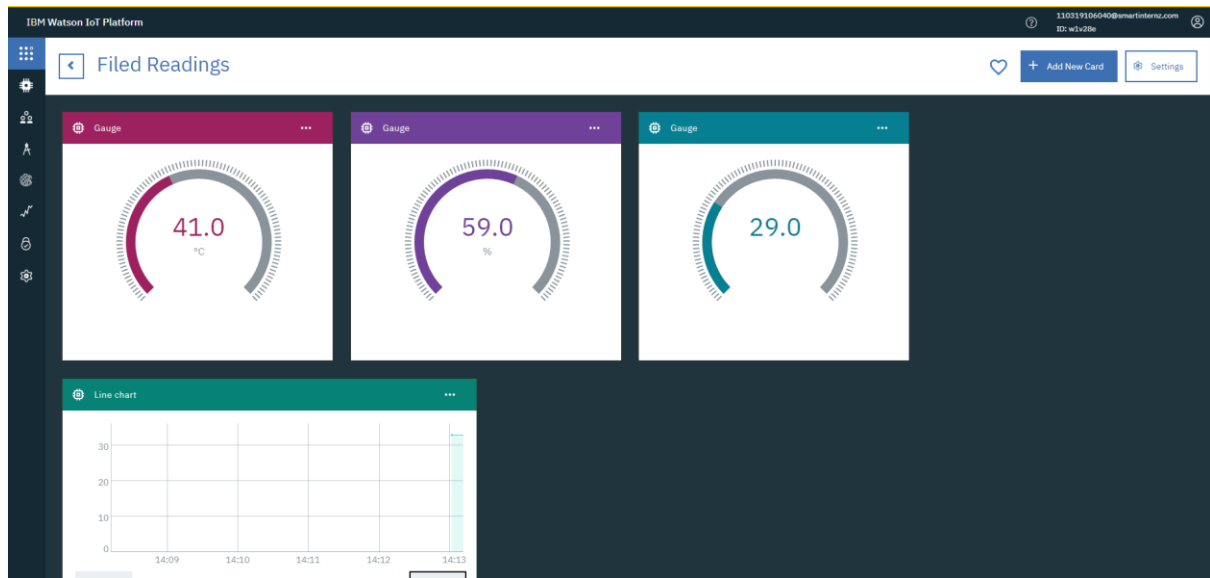
The screenshot displays the IBM Watson IoT Platform interface. At the top, the header shows the user's email '110319106040@smartinternz.com' and the organization ID 'w1v28e'. The main navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for navigation. The main content area shows a list of devices with columns: Device ID, Status, Device Type, Class ID, Date Added, Descriptive Location, Added By, and Device Class. Two devices are listed: '40' (Disconnected, node) and 'sk40' (Connected, raspberrypi). The 'sk40' device is selected, and its details are shown in a modal window. The modal has tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, showing a table of events with columns: Event, Value, Format, and Last Received. Two events are listed, both from 'IoTSensor' with JSON values and received 'a few seconds ago'. The bottom of the modal shows 'Items per page: 50' and '1-2 of 2 items'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
40	Disconnected	node	Device	17 Nov 2022 6:14 PM		110319106040@smartinternz.com	
sk40	Connected	raspberrypi	Device	10 Nov 2022 6:39 PM		110319106040@smartinternz.com	

Event	Value	Format	Last Received
IoTSensor	["temp":52,"Humid":58,"soilmoisture":99,"Wind...	json	a few seconds ago
IoTSensor	["temp":80,"Humid":55,"soilmoisture":70,"Wind...	json	a few seconds ago

Step 2:

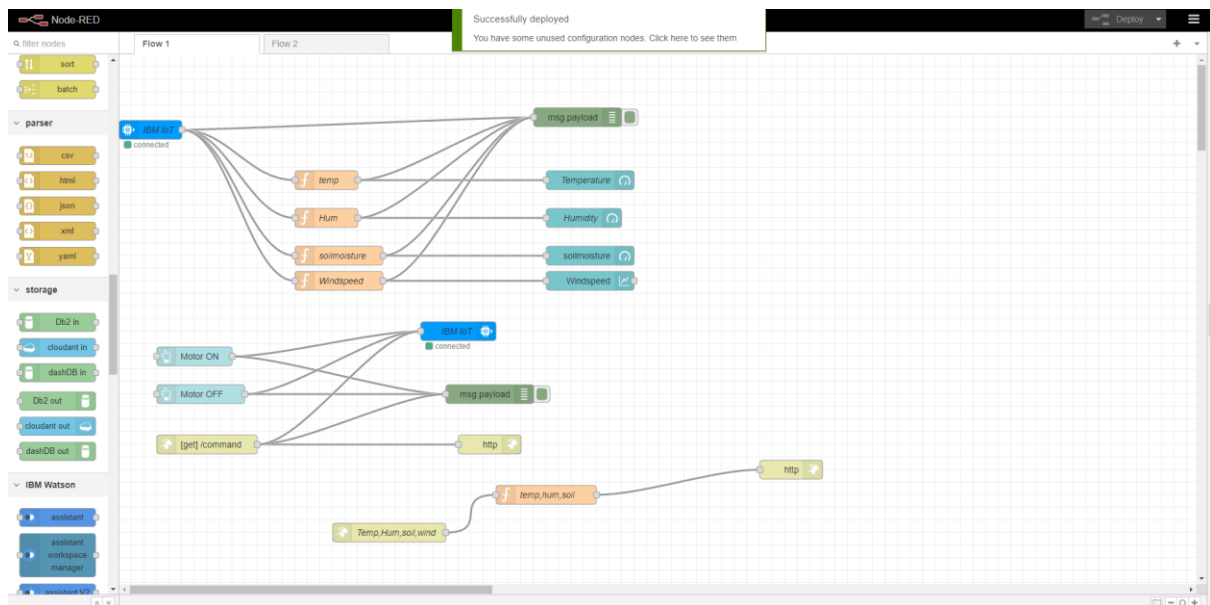
Add cards in IBM Watson IoT platform for the web UI



Step 3:

Create the node-RED app and assign the flow and connect ibm cloud with help of APi key

And connect the ibm cloud to node-RED



Writhing function in the flow and connected,

```
msg.payload = msg.payload.temp
```

```
global.set("t",msg.payload)
```

```
return msg;
```

```
msg.payload = msg.payload.Hum
```

```
global.set("h",msg.payload)
```

```

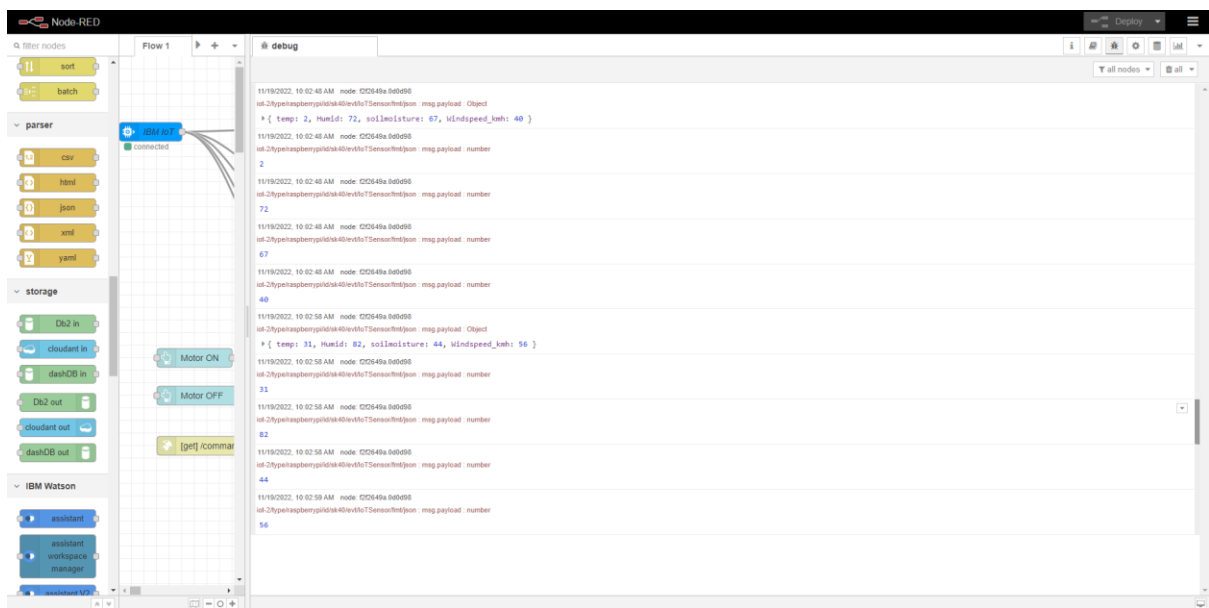
return msg;

msg.payload = msg.payload.soilmoisture

global.set("s",msg.payload)

return msg;

```



Web UI:

