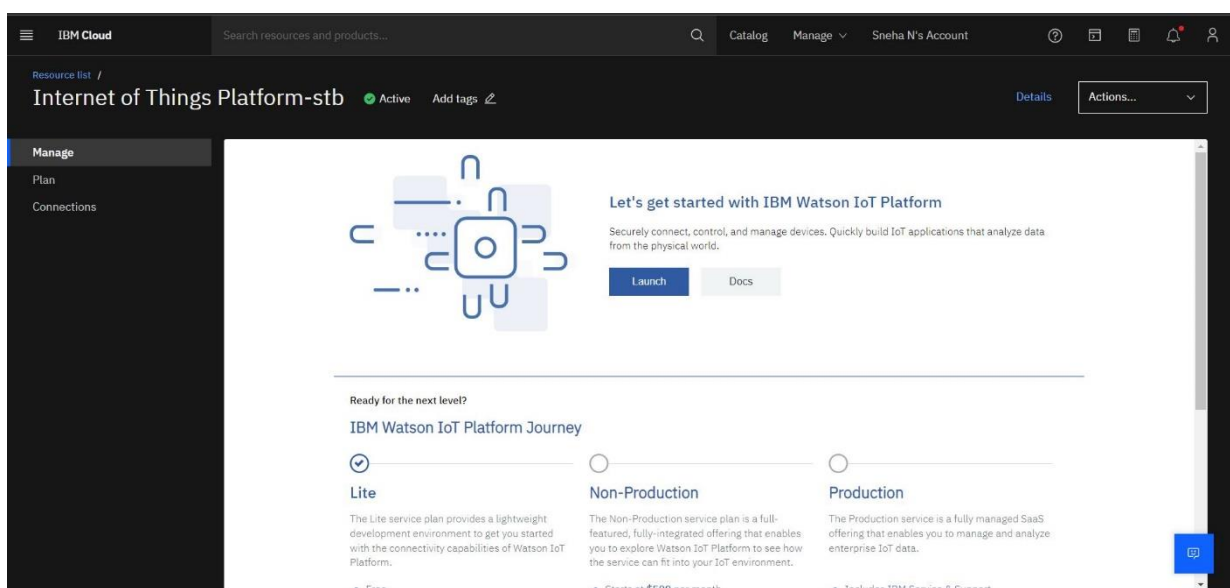


Sprint 2

Software- Create device in the IoT Watson Platform, workflow for IoT Scenarios using Local Node

Date	11-11-2022
Team ID	PNT2022TMID01408
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application
Maximum Marks	4 Marks

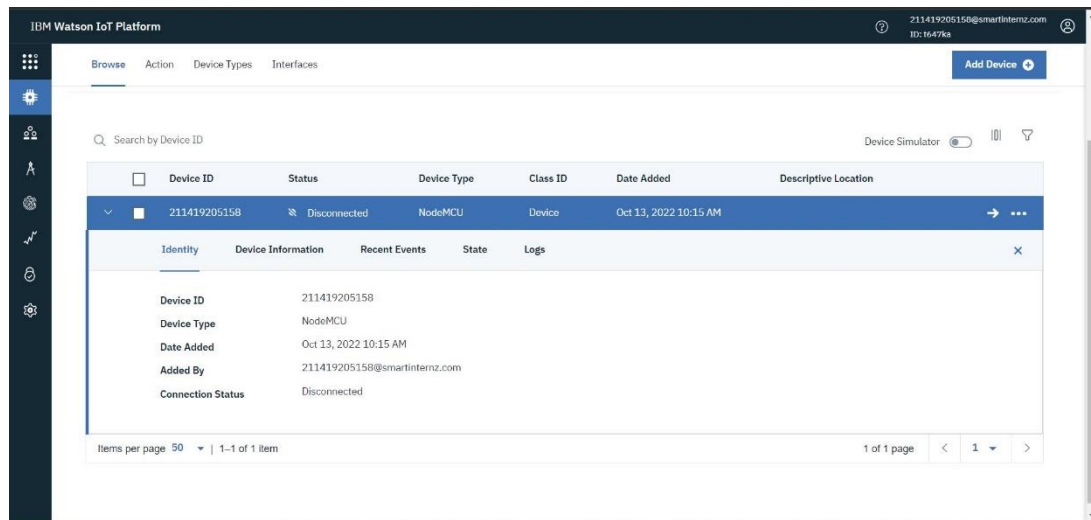
Launch IBM Watson IoT Platform:



Steps to configure:

- Create an account in IBM cloud using your email ID
- Create IBM Watson Platform in services in your IBM cloud account
- Launch the IBM Watson IoT Platform
- Create a new device
- Give credentials like device type, device ID, Auth. Token
- Create API key and store API key and token elsewhere.

Create a new device:



IoT Simulator:

In our project in the place of sensors we are going to use IoT sensor simulator which give random readings to the connected cloud. The link to simulator:

<https://t647ka.internetofthings.ibmcloud.com/dashboard/boards/0b75ed7e-64b1-4d89-95a0-1db177c3cd6d>

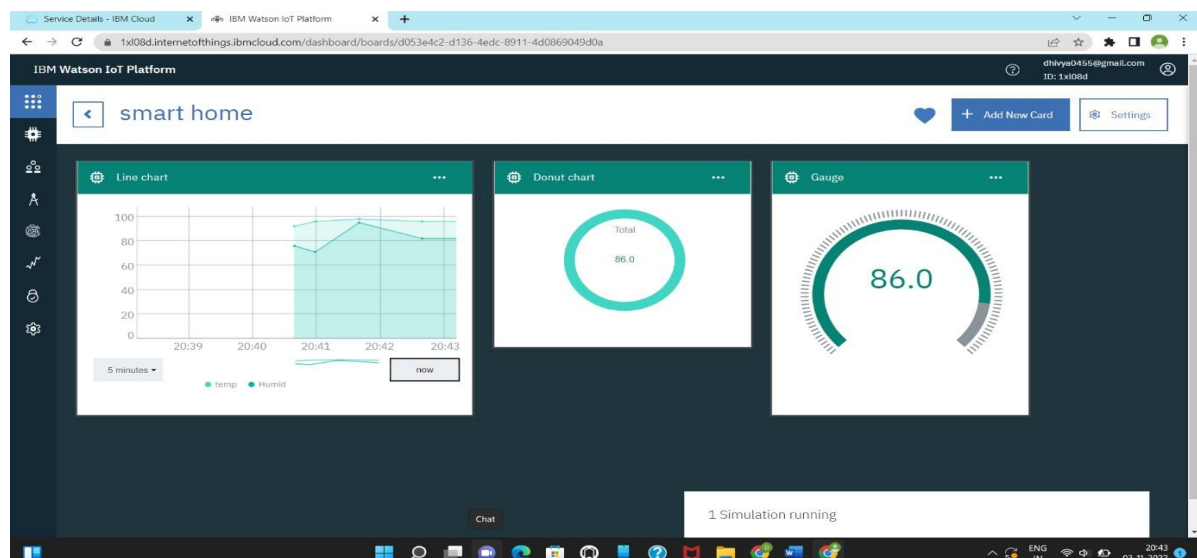
Connecting IoT Simulator to IBM Watson IoT Platform:

My credentials given to simulator are:

API KEY: a-t647ka-6cteers17j

Auth Token: +hta*f(pVxRHUjNqjw

Device Type: a-t647ka-6cteers17



You can see the received data in graphs by creating cards in Boards tab

- You will receive the simulator data in cloud
- You can see the received data in Recent Events under your device
- Data received in this format(json)

The screenshot displays the IBM Watson IoT Platform interface. The main panel shows the 'Device Information' tab for a device with ID 211419205158, which is a NodeMCU device. The device status is 'Disconnected'. The 'Recent Events' tab is also visible. A modal window is open for configuring an event for 'NodeMCU_1'. The event type is 'eventflow' with a frequency of '1 x Every Minute'. The payload is configured as a JSON object with three fields: 'data' (random(0, 100)), 'temp' (random(90, 110)), and 'humid' (random(60, 100)). The 'Send' button is visible in the modal.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

Device ID	Status	Device Type	Class ID	Device
211419205158	Disconnected	NodeMCU	Device	Q

Identity Device Information Recent Events State Logs

Device ID: 211419205158
Device Type: NodeMCU
Date Added: Oct 13, 2022 10:15 AM
Added By: 211419205158@smartinternz.com
Connection Status: Disconnected

Items per page 50 | 1-1 of 1 item

NodeMCU_1

Event type name: eventflow Frequency: 1 x Every Minute Send

Payload

You can override field values in the event payload that is sent by this device. Specify the override values in the editor window.

```
{
  "data": random(0, 100)
  "temp": random(90, 110)
  "humid": random(60, 100)
}
```

What functions can I apply?

Cancel Save

1 of 1 page