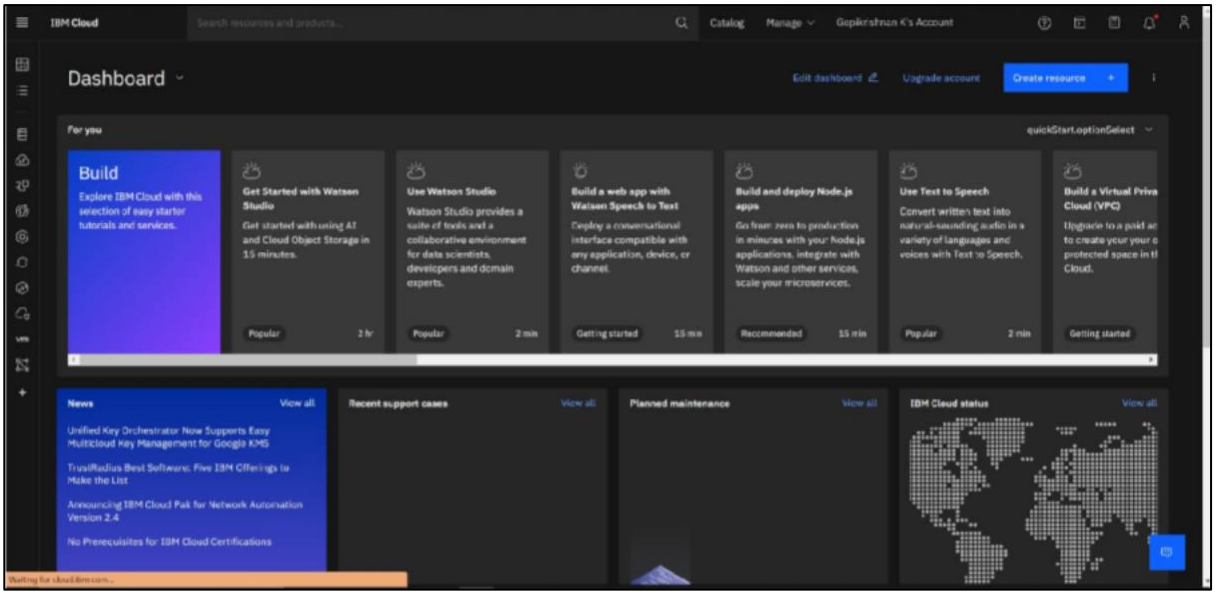
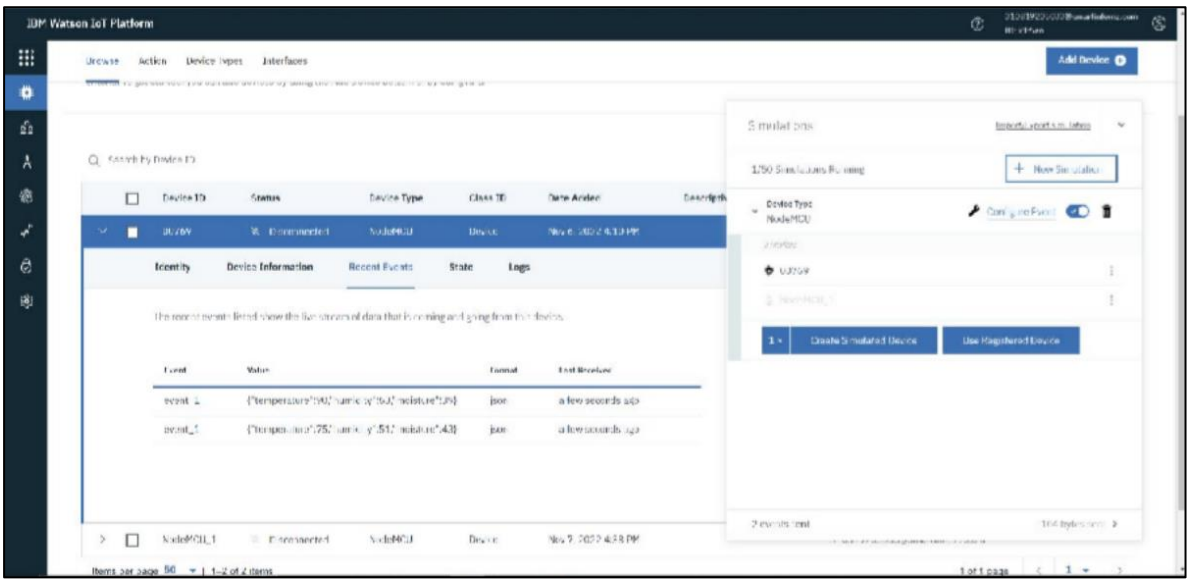
Sprint-2

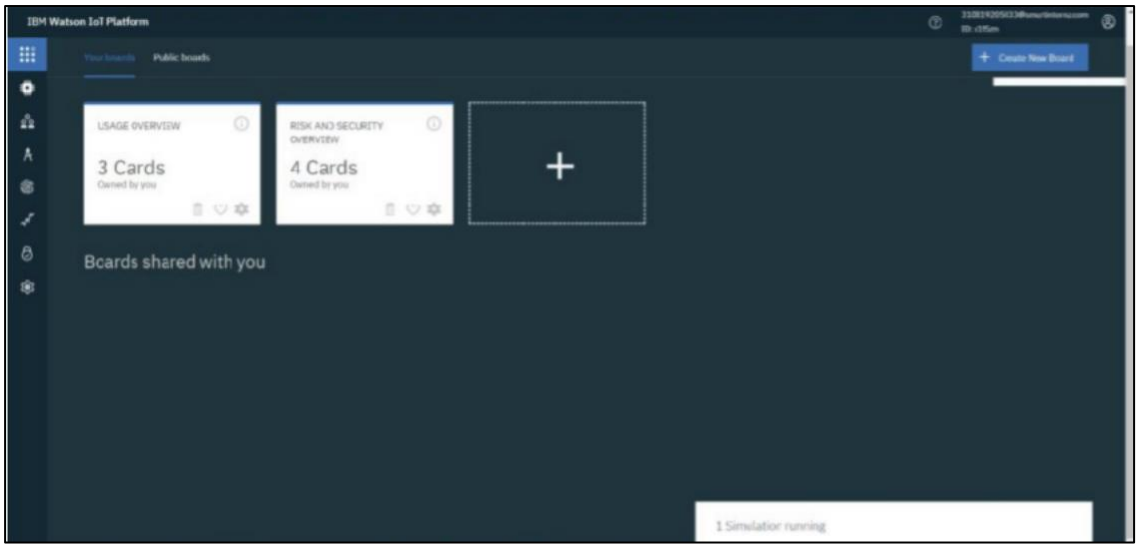
Software – IoT Watson Platform and Node Red

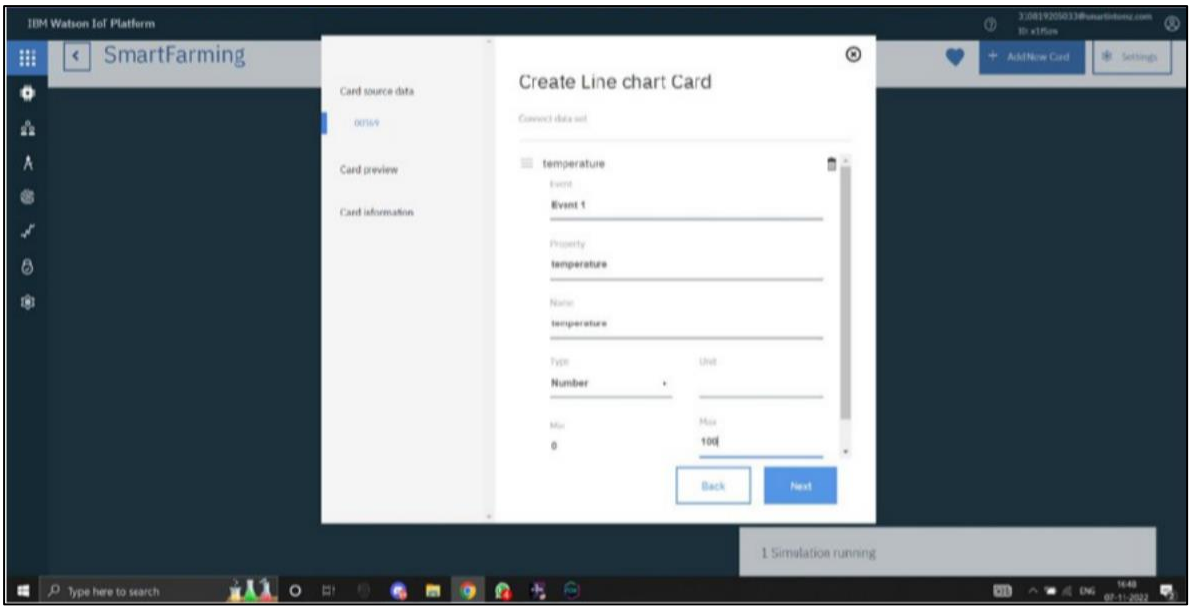
Date	02 November 2022
Team ID	PNT2022TMID27109
Project Name	SmartFarming- IoT Enabled smart Farming Application

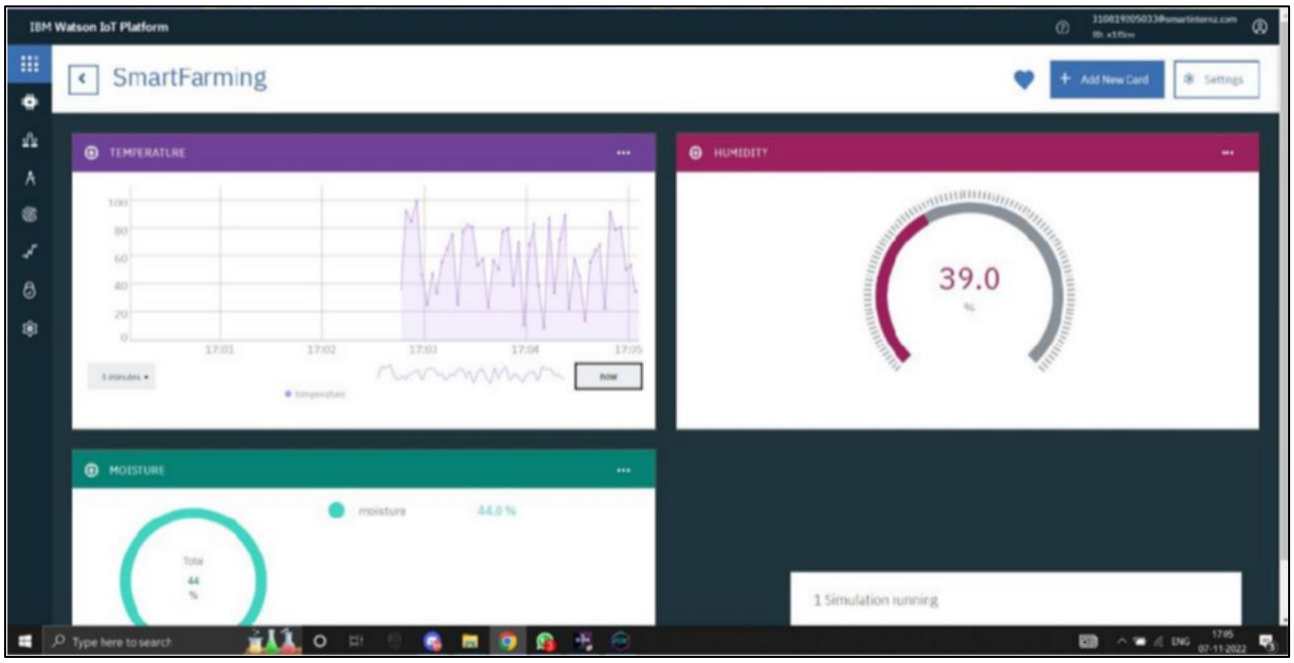
IBM IoT Watson Platform:






IBM Watson IoT Platform
Public boards
Create New Board
USAGE OVERVIEW
3 Cards
Owned by you
RISK AND SECURITY OVERVIEW
4 Cards
Owned by you
Bcards shared with you
1 Simulator running

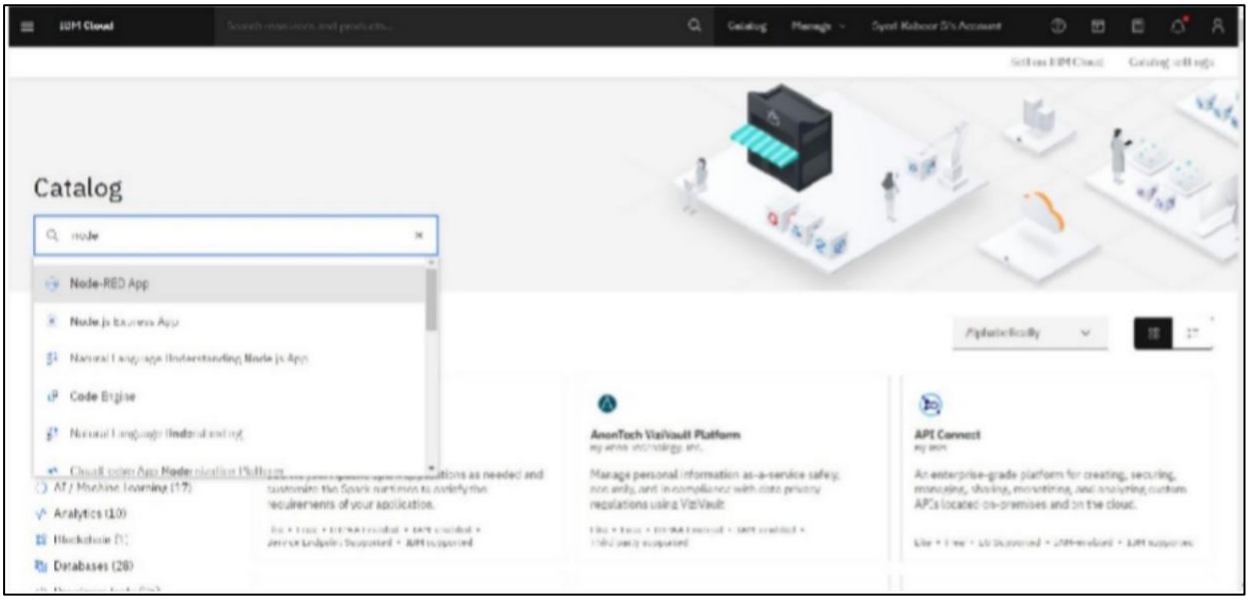

IBM Watson IoT Platform
SmartFarming
Add New Card
Settings
Card source data
Card preview
Card information
Create Line chart Card
temperature
Event
Event 1
Property
temperature
Name
temperature
Type
Number
Unit
Min
0
Max
100
Back
Next
1 Simulation running
Type here to search

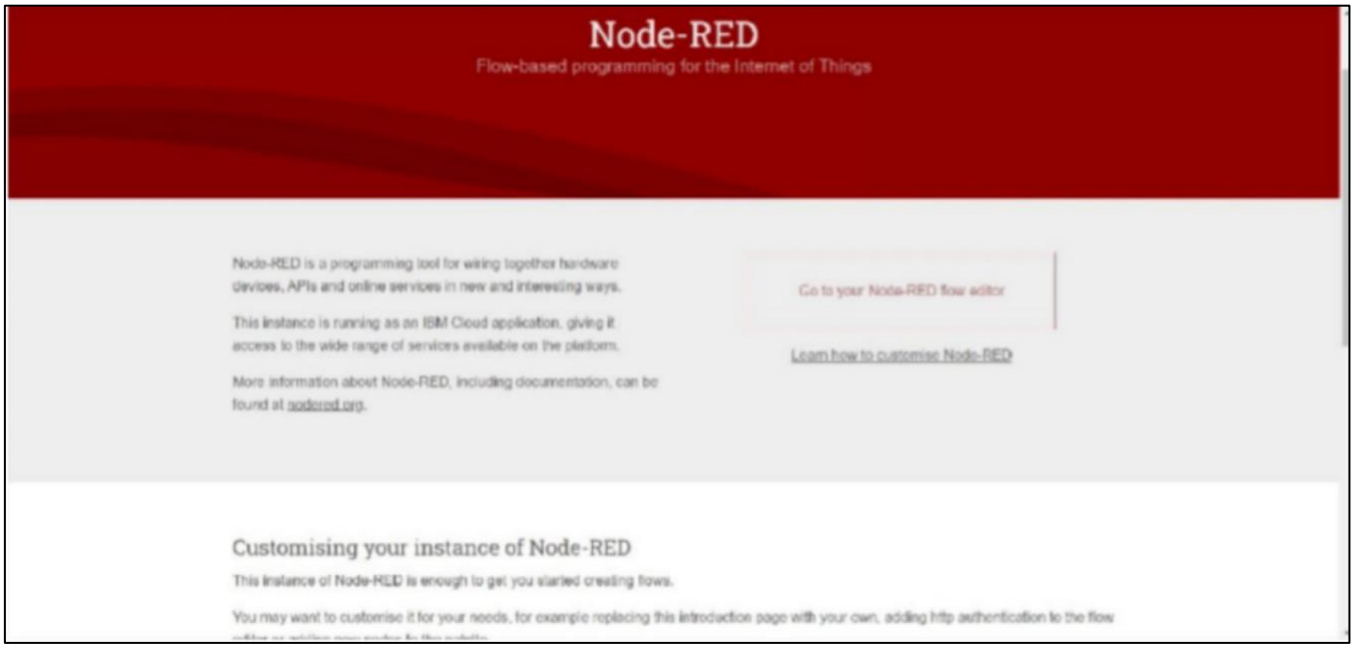


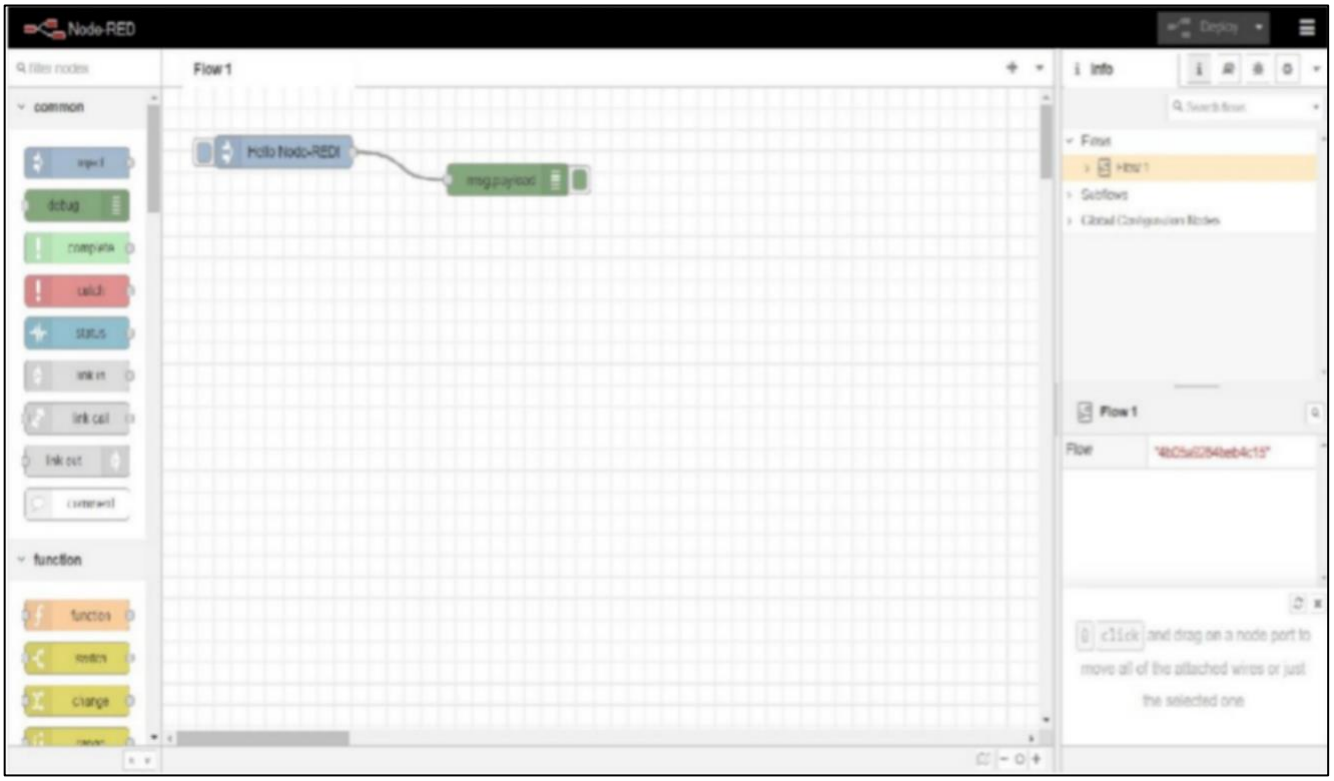
Explanation:

- ✓ To create device, in the home page of IBM cloud click on thecatalog on the top and click on IoT platform
- ✓ Click on launch button, then the IBM Watson platform will be displayed and click on create device to create.
- ✓ After activating device simulator and check whether the code is running.
- ✓ Go to board and create a new board by filling the details.
- ✓ Fill the detail to get temperature graph, select the color from the option and repeat the same process to get the humidity graph, we get the final graph.
- ✓ Finally an IBM Watson cloud for IoT and a device is created successfully.

Node Red Web Application:




Node-RED
Flow-based programming for the Internet of Things
Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.
This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.
More information about Node-RED, including documentation, can be found at nodered.org.
Go to your Node-RED flow editor
Learn how to customise Node-RED
Customising your instance of Node-RED
This instance of Node-RED is enough to get you started creating flows.
You may want to customise it for your needs, for example replacing this introduction page with your own, adding http authentication to the flow


Node-RED
Deploy
Flow 1
common
Hello Node-RED!
msg.payload
function
change
info
Flow 1
click and drag on a node port to move all of the attached wires or just the selected one

Explanation:

- ✓ Search for Node Red in the catalog search box and click on get start button.
- ✓ Do the required process and finish the installation steps.
- ✓ After the installation we can able to access the Node Red service.
- ✓ Then we can able to use nodes and connect then with another node.
- ✓ We can able to Run the node red by pressing on Deploy.