

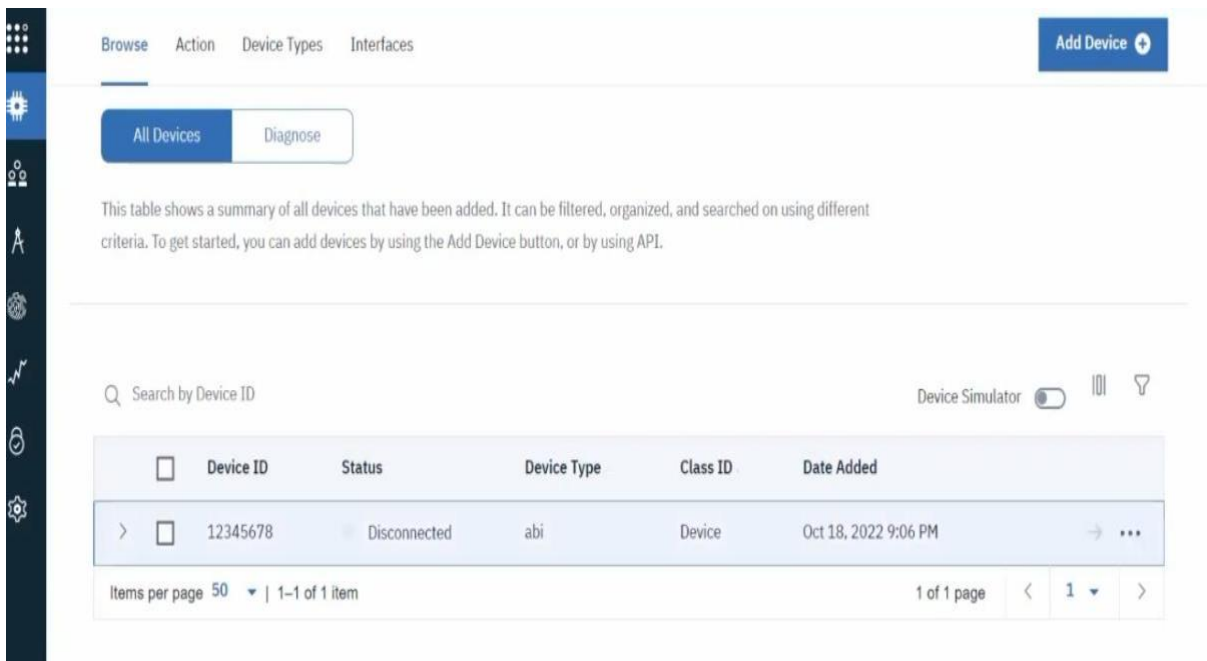
## PROJECT DEVELOPMENT PHASE

### Sprint - 3

**TEAM ID** : PNT2022TMID32046

**PROJECT NAME** : Smart Farmer - IoT Enabled Smart Farming

IBM Watson IoT Platform:



The screenshot displays the IBM Watson IoT Platform interface. On the left is a dark sidebar with various icons. The main content area has a top navigation bar with tabs: 'Browse', 'Action', 'Device Types', and 'Interfaces'. A blue 'Add Device' button with a plus icon is in the top right. Below the tabs are two buttons: 'All Devices' (active) and 'Diagnose'. A text block 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 this is a search bar labeled 'Search by Device ID' and a 'Device Simulator' toggle switch. The main table lists devices with columns: Device ID, Status, Device Type, Class ID, and Date Added. One device is listed with ID 12345678, status 'Disconnected', type 'abi', class 'Device', and date 'Oct 18, 2022 9:06 PM'. The bottom of the interface shows 'Items per page 50' and '1 of 1 page'.

Browse Action Device Types Interfaces Add Device +

All Devices Diagnose

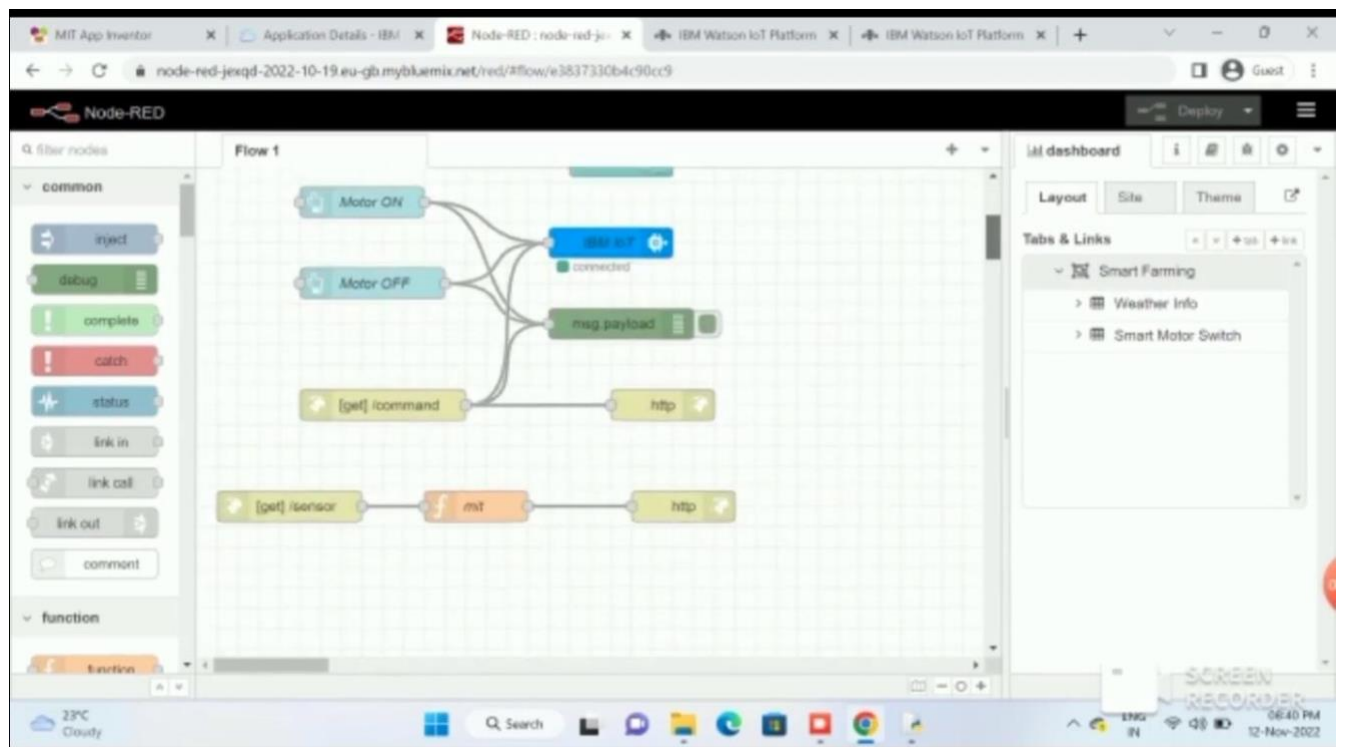
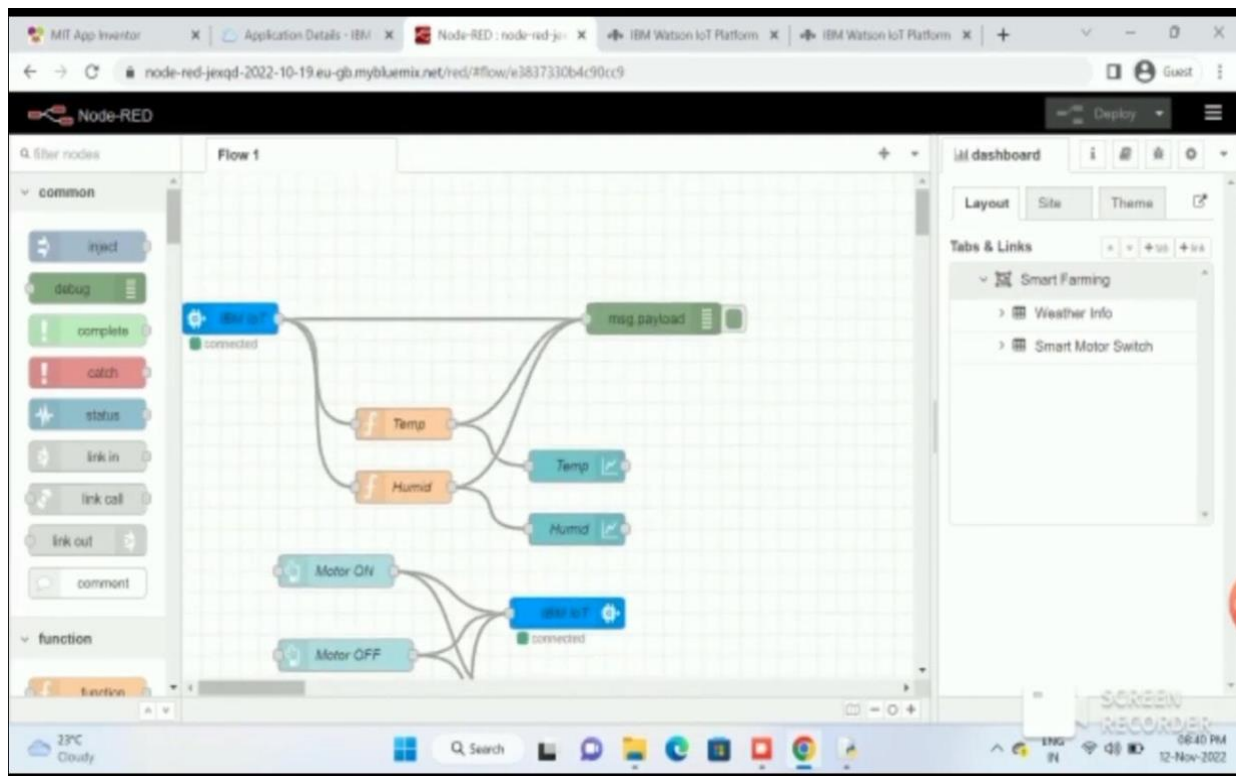
This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID Device Simulator

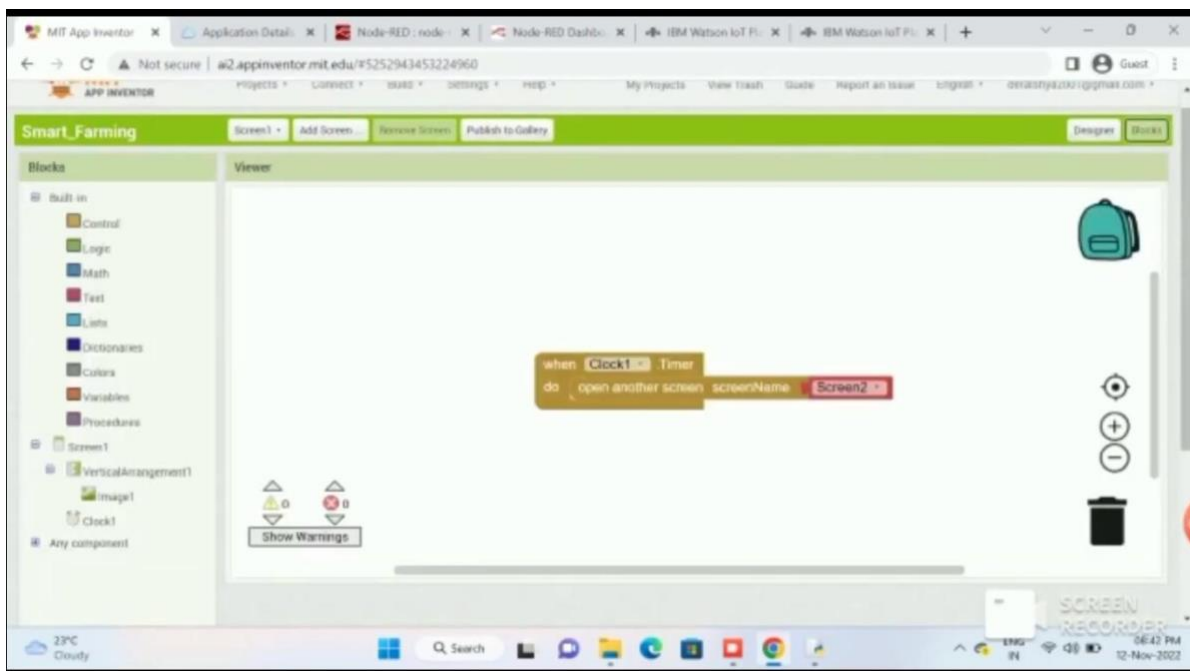
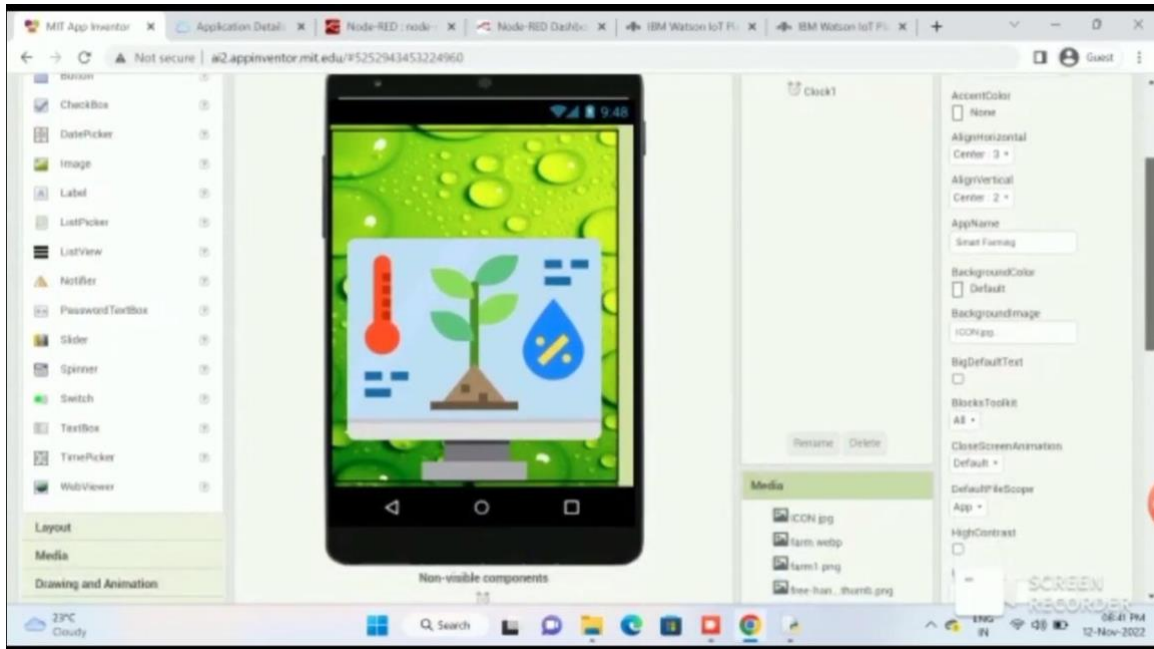
Device ID	Status	Device Type	Class ID	Date Added
> 12345678	Disconnected	abi	Device	Oct 18, 2022 9:06 PM

Items per page 50 | 1-1 of 1 item 1 of 1 page < 1 >

## Web Application:



## MOBILE APPLICATION



The screenshot displays a web browser window with a Node-RED dashboard titled "Smart Farming". The dashboard is divided into two main sections. On the left, under the heading "Weather Info", there are two line graphs. The top graph, titled "Temperature", shows a line plot with data points at 20:40:30, 20:40:52, and 20:40:55. The y-axis ranges from 20 to 100. The bottom graph, titled "Humidity", shows a highly fluctuating line plot with data points from 20:38:46 to 20:40:55. The y-axis ranges from 0 to 100. On the right, under the heading "Smart Motor Switch", there are two large blue buttons labeled "MOTOR OFF" and "MOTOR ON". The browser's address bar shows the URL "node-red-jesqd-2022-10-19-eu-gb.mybluemix.net/ui/#/O/socketid=MyRKBMZ5962en8VAAA2". The browser's taskbar at the bottom shows various application icons and the system clock indicating 6:40 PM on 12-Nov-2022.

```
*Python 3.7.0 Shell*
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\karth\AppData\Local\Programs\Python\Python37\smart_farming.py
2022-11-12 20:20:15,321 ibmiotf.device.Client INFO Connected successfully: d:b84wgs:abi:12345678
Published Temperature = 32 C Humidity = 13 % to IBM Watson
Published Temperature = 26 C Humidity = 42 % to IBM Watson
Published Temperature = 56 C Humidity = 31 % to IBM Watson
Published Temperature = 68 C Humidity = 87 % to IBM Watson
Published Temperature = 48 C Humidity = 80 % to IBM Watson
Published Temperature = 88 C Humidity = 89 % to IBM Watson
Published Temperature = 23 C Humidity = 3 % to IBM Watson
Published Temperature = 92 C Humidity = 67 % to IBM Watson
Published Temperature = 81 C Humidity = 95 % to IBM Watson
Published Temperature = 37 C Humidity = 59 % to IBM Watson
Published Temperature = 45 C Humidity = 79 % to IBM Watson
```

Video link:

[https://youtu.be/Q\\_JfZw4foQ](https://youtu.be/Q_JfZw4foQ)