Project Development

PhaseSprint-4

Mobile Application Testing

Date	14 November 2022
Team ID	PNT2022TMID22317
Project Name	Smart Farmer IOT Enabled Smart Farming Application

Smart Farmer App Dashboard

Dashboard

8



Simulator Data



Motor Controls



Open Weather API Data

IBM Watson IOT Platform Data

Temperature 50 Humidity 1 Moisture 19

Motor Controls

Motor Control

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Motor Controls



When Motor On Button Press the Motor will be ON

Motor Control

Motor Controls

Motor is ON



When Motor OFF Button Press the Motor will be OFF

Motor Control

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Motor Controls

Motor is OFF



Output - Python

```
*Python 3.7.0 Shell*
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\HP\Desktop\sft python code.py ======
2022-11-14 10:16:41,141 ibmiotf.device.Client
                                                               Connected successfully: d:rsultr:
sf:smartfarm
Published Temperature = 21 C Humidity = 0 % Moisture = 15 % Ph = 10 % to IBM Watson
Published Temperature = 78 C Humidity = 28 % Moisture = 24 % Ph = 8 % to IBM Watson
Published Temperature = 49 C Humidity = 13 % Moisture = 86 % Ph = 5 % to IBM Watson
Published Temperature = 87 C Humidity = 10 % Moisture = 16 % Ph = 6 % to IBM Watson
Published Temperature = 63 C Humidity = 5 % Moisture = 56 % Ph = 4 % to IBM Watson
Published Temperature = 15 C Humidity = 49 % Moisture = 22 % Ph = 4 % to IBM Watson
Published Temperature = 83 C Humidity = 14 % Moisture = 4 % Ph = 6 % to IBM Watson
Published Temperature = 48 C Humidity = 20 % Moisture = 61 % Ph = 4 % to IBM Watson
Published Temperature = 49 C Humidity = 78 % Moisture = 86 % Ph = 1 % to IBM Watson
Published Temperature = 32 C Humidity = 83 % Moisture = 70 % Ph = 7 % to IBM Watson
Published Temperature = 75 C Humidity = 50 % Moisture = 22 % Ph = 5 % to IBM Watson
Published Temperature = 75 C Humidity = 13 % Moisture = 8 % Ph = 5 % to IBM Watson
Published Temperature = 30 C Humidity = 97 % Moisture = 28 % Ph = 4 % to IBM Watson
Published Temperature = 18 C Humidity = 89 % Moisture = 95 % Ph = 3 % to IBM Watson
Published Temperature = 10 C Humidity = 55 % Moisture = 59 % Ph = 2 % to IBM Watson
Published Temperature = 52 C Humidity = 29 % Moisture = 82 % Ph = 6 % to IBM Watson
Published Temperature = 78 C Humidity = 68 % Moisture = 65 % Ph = 10 % to IBM Watson
Published Temperature = 19 C Humidity = 38 % Moisture = 12 % Ph = 5 % to IBM Watson
Published Temperature = 28 C Humidity = 99 % Moisture = 18 % Ph = 8 % to IBM Watson
```

Node-RED Output

