

Smart Farmer-IOT Enabled Smart Farming Application

Project Development Phase

Sprint Delivery -2

Date	15 November 2022
Team ID	PNT2022TMID17315
Project Name	Smart Farmer-IOT Enabled Smart Farming Application
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Software:

1. Create device in the iot watson platform:

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A user profile is visible in the top right corner with the email '922119106034@smartinternz.com' and ID '41azth'. The main content area features a search bar and a table of devices. The table has columns for Device ID, Status, Device Type, Class ID, Date Added, Descriptive Location, and Added By. A single device with ID '12345' is listed, with a status of 'Disconnected' and a device type of 'NodeMCU'. Below the table, a detailed view of the selected device is shown, including its identity, device information, recent events, state, and logs. The connection status is 'Disconnected', with additional details such as 'Last Connected: Nov 8, 2022 6:59 PM', 'Client Address: 216.246.119.62 Insecure', 'Duration: 4 minutes', and 'Data Transferred: 15.1 KB'. The bottom of the dashboard shows a taskbar with various application icons and system information like '25°C Cloudy' and '10:01 AM 14-11-2022'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By
12345	Disconnected	NodeMCU	Device	Oct 31, 2022 3:32 PM		922119106034@smartinternz.com

Device Details:

- Device ID: 12345
- Device Type: NodeMCU
- Date Added: Oct 31, 2022 3:32 PM
- Added By: 922119106034@smartinternz.com
- Connection Status: Disconnected
- Last Connected: Nov 8, 2022 6:59 PM
- Client Address: 216.246.119.62 Insecure
- Duration: 4 minutes
- Data Transferred: 15.1 KB

The recent even is listed show the love stream of dabs that is coming and going from this devil

```
event 1      {"Temperature":75,"Humidity":19}
event_1      { 'Tempermue": 74 °Humi%
              ty": 20 ]
event I      {"temperature":43,"Humidity":43}
event 1      {"Temperature":50,"Humidity":84}
```

Items per page 50 | 1-1 of 1 item

1 Simulation

Type here to search



2. Workflow for iot scenarios using local node red:

Excel Editor Online for Free x Node-RED x +

127.0.0.1:1880/#flow/9589cb671184bf87

Node-RED

Deploy

filter nodes

Flow 1 Flow 2

common

- Inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range
- template

Flow 1

msg payload

Temperature Node

Humidity

[get] /sensor

httpfunctionnode

http

Light on

Light off

[get] /control

command function node

msg payload

IBM IoT

http

debug

all nodes

msg payload : Object

{ Temperature: 69, Humidity: 46 }

11/14/2022, 10:07:37 AM node:msg.payload
iot-2/type/NodeMCU/id/12345/evl/event_1/fmt/json :
msg.payload : Object

{ Temperature: 42, Humidity: 55 }

11/14/2022, 10:07:41 AM node:msg.payload
iot-2/type/NodeMCU/id/12345/evl/event_1/fmt/json :
msg.payload : Object

{ Temperature: 97, Humidity: 50 }

11/14/2022, 10:07:44 AM node:msg.payload
iot-2/type/NodeMCU/id/12345/evl/event_1/fmt/json :
msg.payload : Object

{ Temperature: 28, Humidity: 59 }

11/14/2022, 10:07:48 AM node:msg.payload
iot-2/type/NodeMCU/id/12345/evl/event_1/fmt/json :
msg.payload : Object

{ Temperature: 10, Humidity: 0 }

11/14/2022, 10:07:51 AM node:msg.payload
iot-2/type/NodeMCU/id/12345/evl/event_1/fmt/json :
msg.payload : Object

{ Temperature: 6, Humidity: 55 }

11/14/2022, 10:07:54 AM node:msg.payload
iot-2/type/NodeMCU/id/12345/evl/event_1/fmt/json :
msg.payload : Object

{ Temperature: 95, Humidity: 42 }

Type here to search

25°C Cloudy 10:07 AM 14-11-2022