SPRINT - 3

Date	11 November 2022
Team ID	PNT2022TMID21246
Project Name	Project – Smart Farmer- IoT based Smart Farming Application

OBJECTIVE:

Develop an application for the Smart farmer project using MIT App Inventor and Design the Modules and test the app.

DEVELOPED APPLICATION:

App1 (App Inventor screen):

Display hidden components in Viewer
Phone size (505,320)

App1

Temperature : NA
Humidity : NA
Soil Moisture : NA

Non-visible components

Components tree:
Screen1
- VerticalArrangement1
  - HorizontalArrangemen
  - HorizontalArrangemen
    - Label2
    - Label3
  - HorizontalArrangemen
    - Label4
    - Label5
  - HorizontalArrangemen
    - Label6
    - Label7
- Web1
- Clock1

Media:
5868297.webp
cube_cir...x2160.jpg
istockph...0667a.jpg
wp305746...apers.jpg
Upload File ...

Properties (Screen1):
Screen1
AboutScreen
AccentColor — None
AlignHorizontal — Center : 3
AlignVertical — Center : 2
AppName — App1
BackgroundColor — Default
BackgroundImage — 5868297.webp..
BigDefaultText
BlocksToolkit — All
CloseScreenAnimation — Default
DefaultFileScope — App
HighContrast
Icon — None...
OpenScreenAnimation

Visual Studio Code — akash.py:

```python
#import ibmiotf.application
import ibmiotf.device
import sys

config={
    "org":"nq4lh2",
    "type" :"abcd",
    "id":"123",
    "auth-method":"token",
    "auth-token":"123456789"
}
client= ibmiotf.device.Client (config)
client.connect()

def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])
def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)
while True:
```

Terminal output:

```
Published data Successfully: %s {'sm': 100, 'hum': 58, 'temp': 9}
Published data Successfully: %s {'sm': 4, 'hum': 92, 'temp': 66}
Published data Successfully: %s {'sm': 63, 'hum': 20, 'temp': 61}
Published data Successfully: %s {'sm': 45, 'hum': 38, 'temp': 8}
Published data Successfully: %s {'sm': 47, 'hum': 60, 'temp': 92}
Published data Successfully: %s {'sm': 12, 'hum': 57, 'temp': 28}
Published data Successfully: %s {'sm': 76, 'hum': 66, 'temp': 50}
Published data Successfully: %s {'sm': 44, 'hum': 74, 'temp': 83}
NO
Published data Successfully: %s {'sm': 65, 'hum': 94, 'temp': 14}
OFF
Published data Successfully: %s {'sm': 31, 'hum': 51, 'temp': 23}
```