Develop A Mobile Application

ProjectName	Smart Farmer-IoTEnabledSmartFarming Application
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PYTHON CODE:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
organization = "zxnybt"
deviceType = "dominators"
deviceId = "12345"
authMethod = "token"
authToken = "123456789"
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data)
  for key in cmd.data.keys():
    if key == 'motor':
      if cmd.data['motor'] == 'ON':
        print("MOTOR is turned ON")
      elif cmd.data['motor'] == 'OFF':
        print("MOTOR is turned OFF")
try:
  deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method":
authMethod, "auth-token": authToken}
  deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
      print("Caught exception connecting device: %s" % str(e))
      sys.exit()
deviceCli.connect()
while True:
```

```
Humid=random.randint(0,100)
    moist=random.randint(0,40)
    data = { 'temperature' : temp, 'humidity': Humid, 'soil_moisture':moist }

    def myOnPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "to IBM Watson")

    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
    on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoTF")
    time.sleep(10)

    deviceCli.commandCallback = myCommandCallback
```

deviceCli.disconnect()-











