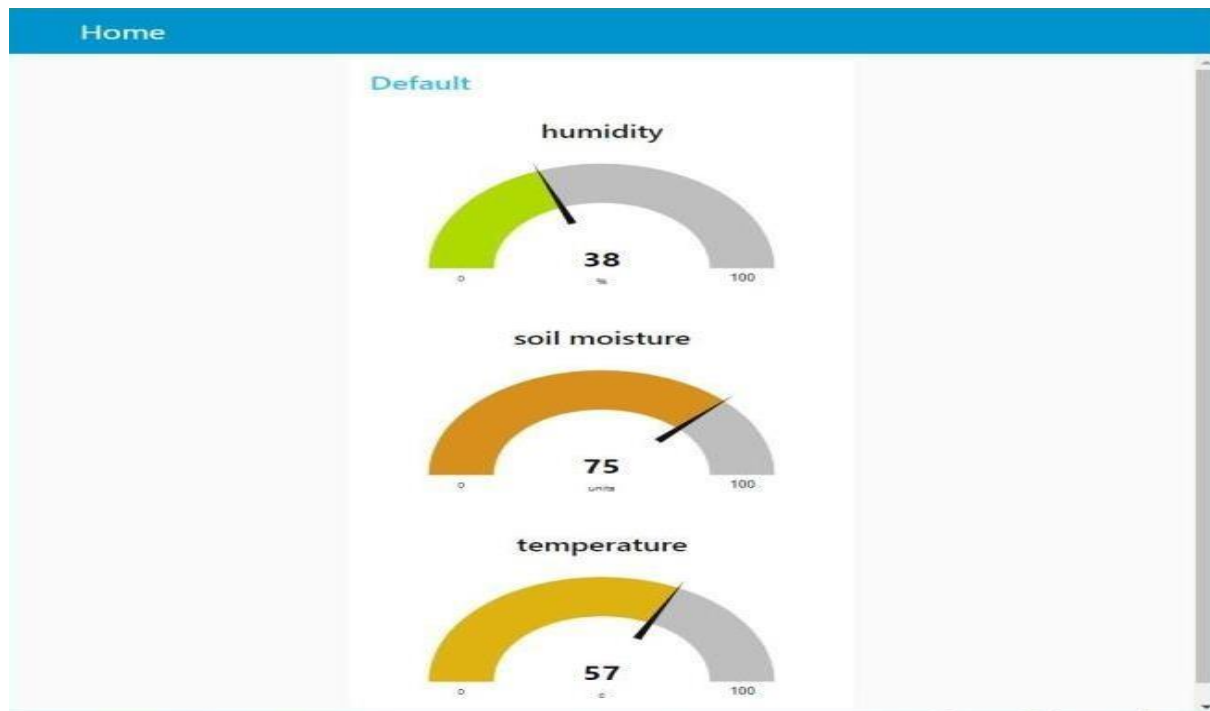


Develop a Mobile Application

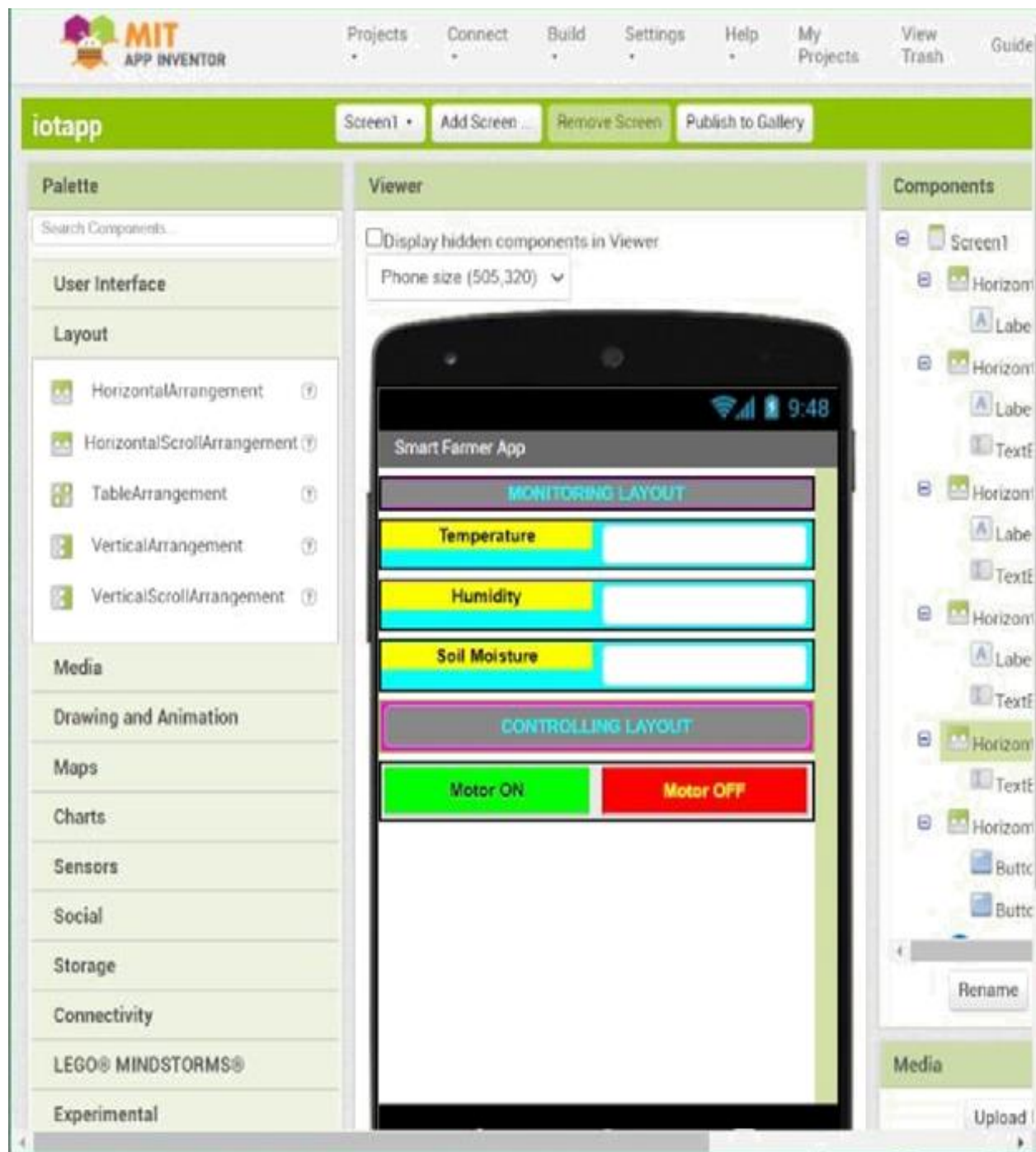
Date	15 November 2022
Team ID	PNT2022TMID31297
Project Name	SMART FARMER– IOT ENABLED SMART FARMING



```
iot final code.py - F:\1 Sem 7\IBM project\iot final code.py (3.7.0)
File Edit Format Run Options Window Help
authToken = "12345678"

# Init
def myc
    4)] on win32
    sta
    if
    >>>
    ===== RESTART: F:\1 Sem 7\IBM project\iot final code.py =====
    2022-11-08 23:25:34,002 ibmiotf.device.Client INFO Connected successfu
    lly: d:75b012:NodeMCU:12345
    Published Temperature = 49 C Humidity:35 soil moisture:57
    Published Temperature = 1 C Humidity:61 soil moisture:1
    Published Temperature = 59 C Humidity:8 soil moisture:80
    Published Temperature = 44 C Humidity:49 soil moisture:95
    Published Temperature = 6 C Humidity:46 soil moisture:35
    Published Temperature = 74 C Humidity:73 soil moisture:17
    Published Temperature = 33 C Humidity:51 soil moisture:77
    Published Temperature = 57 C Humidity:21 soil moisture:56
    Command received: MotorON
    motor in on
    Published Temperature = 19 C Humidity:50 soil moisture:24
    Command received: MotorOFF
    motor is off
    Published Temperature = 32 C Humidity:56 soil moisture:72
    Published Temperature = 34 C Humidity:42 soil moisture:57
    Published Temperature = 20 C Humidity:3 soil moisture:85
    Published Temperature = 3 C Humidity:83 soil moisture:46
    Published Temperature = 66 C Humidity:25 soil moisture:97
    Published Temperature = 78 C Humidity:57 soil moisture:26
    Published Temperature = 75 C Humidity:41 soil moisture:75
    Published Temperature = 80 C Humidity:55 soil moisture:81
    Published Temperature = 62 C Humidity:85 soil moisture:73
    Published Temperature = 25 C Humidity:35 soil moisture:99
    Published Temperature = 63 C Humidity:63 soil moisture:84
    Published Temperature = 30 C Humidity:94 soil moisture:84
    Published Temperature = 22 C Humidity:74 soil moisture:35
    Published Temperature = 82 C Humidity:33 soil moisture:21
    Published Temperature = 52 C Humidity:45 soil moisture:84
    Published Temperature = 64 C Humidity:7 soil moisture:52
    Published Temperature = 83 C Humidity:94 soil moisture:67
    Published Temperature = 82 C Humidity:38 soil moisture:75
    Published Temperature = 57 C Humidity:28 soil moisture:57

# Discon
deviceClient.disconnect()
```



iotapp

Screen1Add Screen ...Remove ScreenPublish to Gallery

DesignerBlocks

Blocks

Built-in

Control

Logic

Math

Text

Lists

Dictionaries

Colors

Variables

Procedures

Screen1

HorizontalArrangemen

Label1

HorizontalArrangemen

Label2

TextBox1

HorizontalArrangemen


Rename

Delete

Media

Upload File ...

Viewer



when Clock1 Timer

do

set Web1 Uri to http://169.51.194.85:31000/sensor

call Web1 Get

when Web1 GetTest

do

set TextBox1 Text to look up in pairs key temperature

call Web1 JsonTextDecode

jsonText get responseContent

notFound not found

set TextBox2 Text to look up in pairs key humidity

call Web1 JsonTextDecode

jsonText get responseContent

notFound not found

set TextBox3 Text to look up in pairs key soil moisture

call Web1 JsonTextDecode

jsonText get responseContent

notFound not found

when Button1 Click

do

set Web2 Uri to http://169.51.194.85:31000/control?command=MotorON

call Web2 Get

when Button2 Click

do

set Web2 Uri to http://169.51.194.85:31000/control?command=Motor


call Web2 Get

Show Warnings

0

+

-



Node-RED

Deploy

filter nodes

Flow 1

g V1 model manager

speech to text

speech to text custom builder

text to speech

text to speech custom builder

tone analyzer v3

dashboard

button

dropdown

switch

slider

numeric

text input

IBM IoT

connected

[get] /sensor

[get] /control

inject

debug

all nodes

all

11/8/2022, 11:25:41 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/ev1/IoTSensor/fmt/json :
msg.payload : Object
{ temp: 57, humid: 21, soil: 56 }

11/8/2022, 11:25:41 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/ev1/IoTSensor/fmt/json :
msg.payload : number
57

11/8/2022, 11:25:42 PM node: 7ec5bdeb258cfece
msg.payload : Object
{ command: "MotorON" }

11/8/2022, 11:25:42 PM node: 7ec5bdeb258cfece
msg.payload : Object
{ command: "MotorOFF" }

11/8/2022, 11:25:42 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/ev1/IoTSensor/fmt/json :
msg.payload : Object
{ temp: 19, humid: 50, soil: 24 }

11/8/2022, 11:25:43 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/ev1/IoTSensor/fmt/json :
msg.payload : number
19

11/8/2022, 11:25:43 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/ev1/IoTSensor/fmt/json :
msg.payload : Object


```
iot final code.py - F:\1 Sem 7\IBM project\iot final code.py (3.7.0)
File Edit Format Run Options Window Help
authToken = "12345678"
# Init
def my
pr
4]] on win32
st
Type "copyright", "credits" or "license()" for more information.
if
>>>
===== RESTART: F:\1 Sem 7\IBM project\iot final code.py =====
2022-11-08 23:25:34,002 ibmiotf.device.Client INFO Connected successfu
lly: d:75b012:NodeMCU:12345
Published Temperature = 49 C Humidity:35 soil moisture:57
Published Temperature = 1 C Humidity:61 soil moisture:1
Published Temperature = 59 C Humidity:8 soil moisture:80
Published Temperature = 44 C Humidity:49 soil moisture:95
try:
Published Temperature = 6 C Humidity:46 soil moisture:35
Published Temperature = 74 C Humidity:73 soil moisture:17
Published Temperature = 33 C Humidity:51 soil moisture:77
Published Temperature = 57 C Humidity:21 soil moisture:56
except
Command received: MotorON
motor in on
Published Temperature = 19 C Humidity:50 soil moisture:24
Command received: MotorOFF
motor is off
# Conn
device
Published Temperature = 32 C Humidity:56 soil moisture:72
Published Temperature = 34 C Humidity:42 soil moisture:57
Published Temperature = 20 C Humidity:3 soil moisture:85
while
Published Temperature = 3 C Humidity:83 soil moisture:46
Published Temperature = 66 C Humidity:25 soil moisture:97
Published Temperature = 78 C Humidity:57 soil moisture:26
Published Temperature = 75 C Humidity:41 soil moisture:75
Published Temperature = 80 C Humidity:55 soil moisture:81
Published Temperature = 62 C Humidity:85 soil moisture:73
Published Temperature = 25 C Humidity:35 soil moisture:99
# Disc
device
Ln: 20 Col: 0
Ln: 28 Col:
```