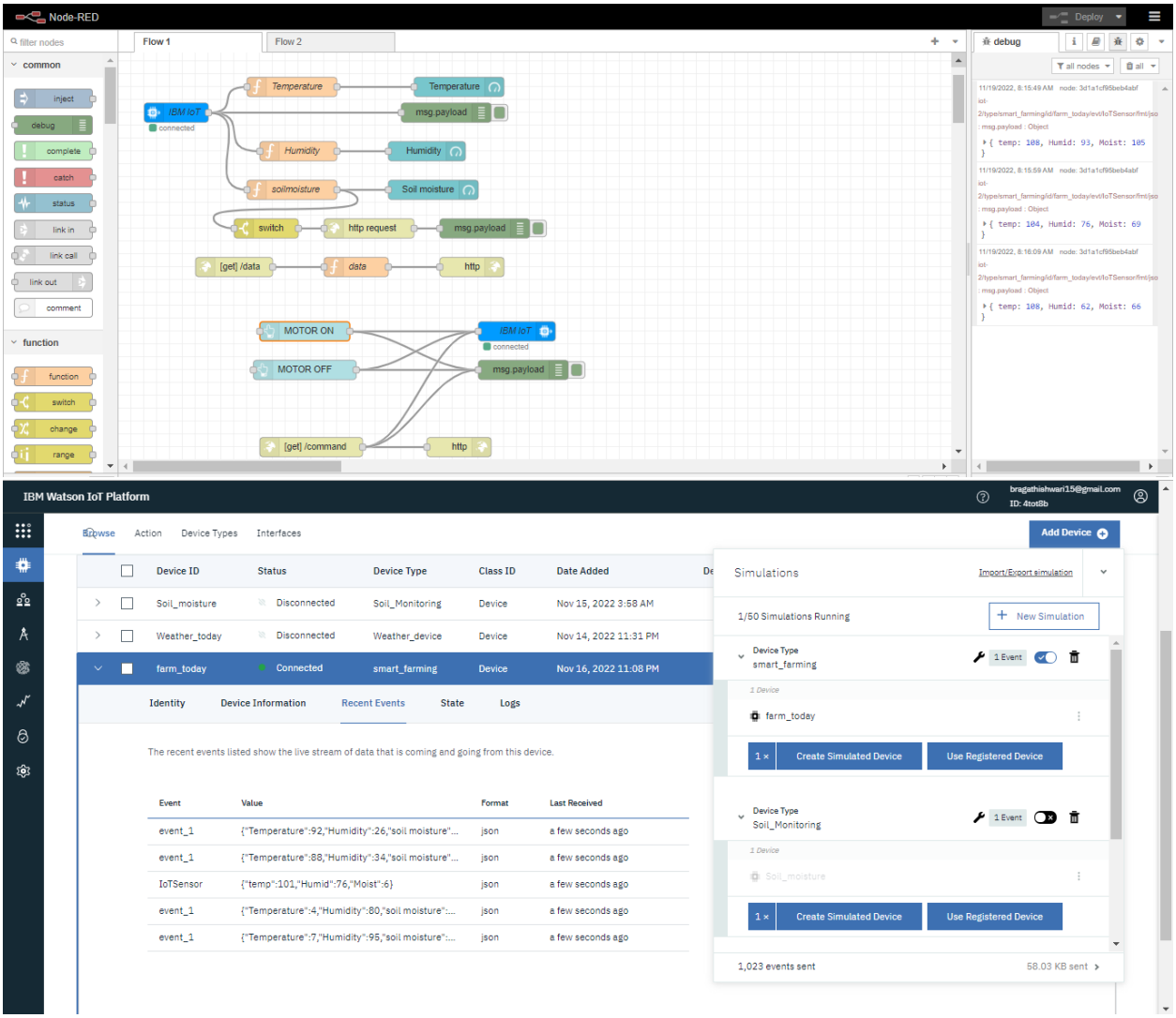
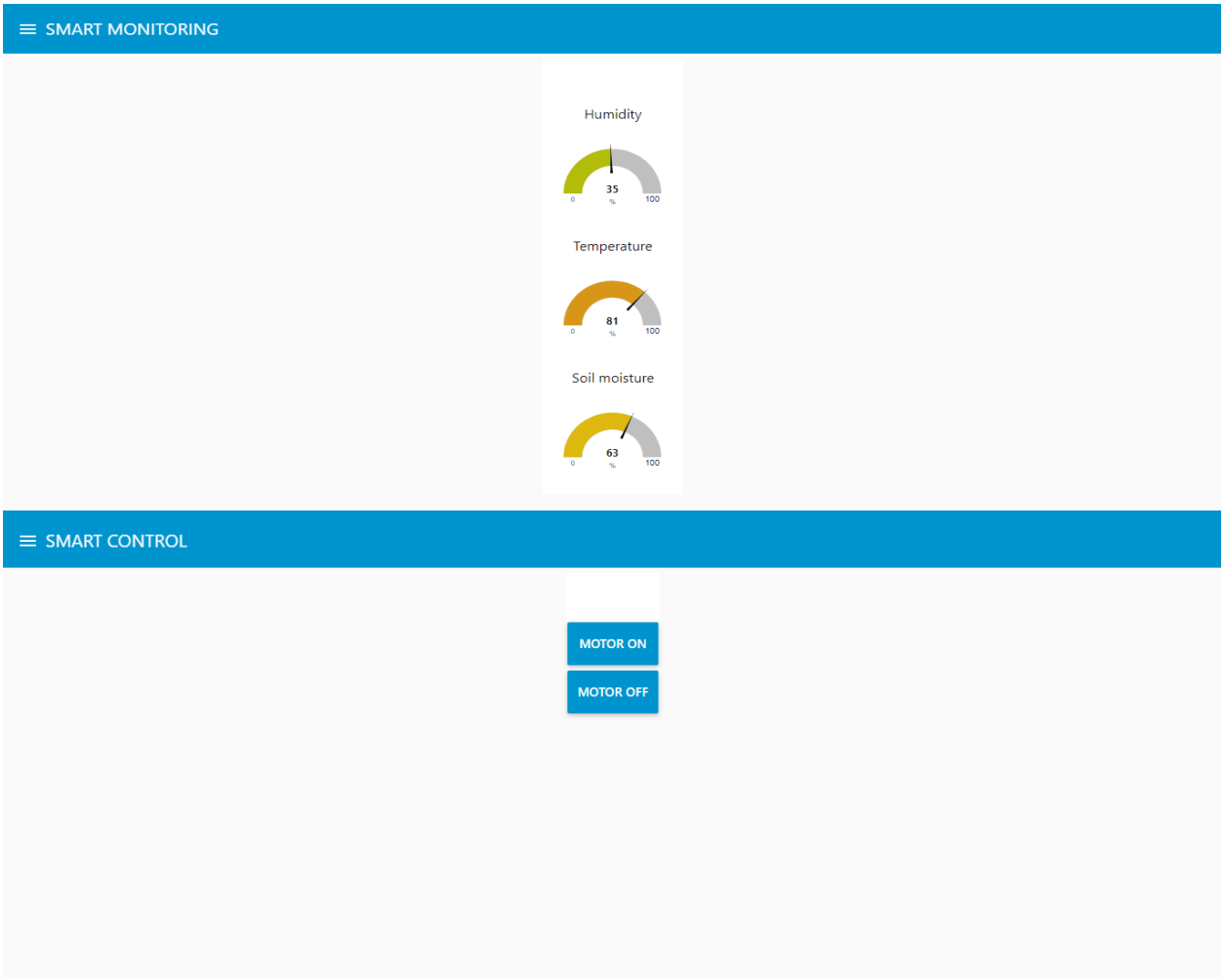
SPRINT 4

Team ID	PNT2022TMID46404
Project Name	Smart Farmer - IOT Enabled Smart Farming Application

❖ Designing the modules and created all the features of the app.



Node-Red Dashboard:



MIT APP Inventor:

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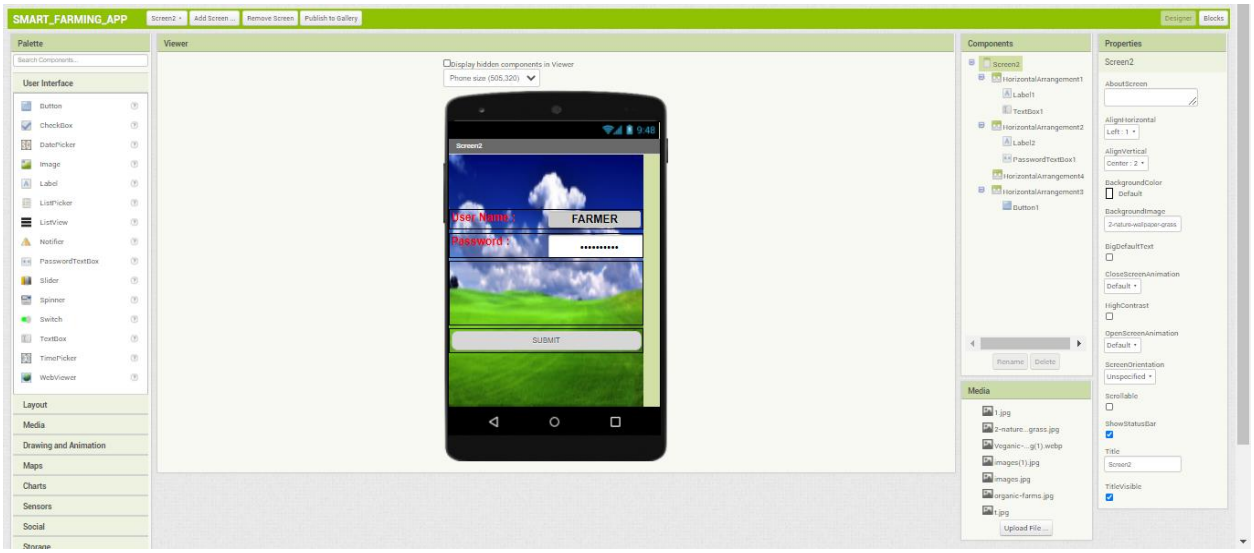
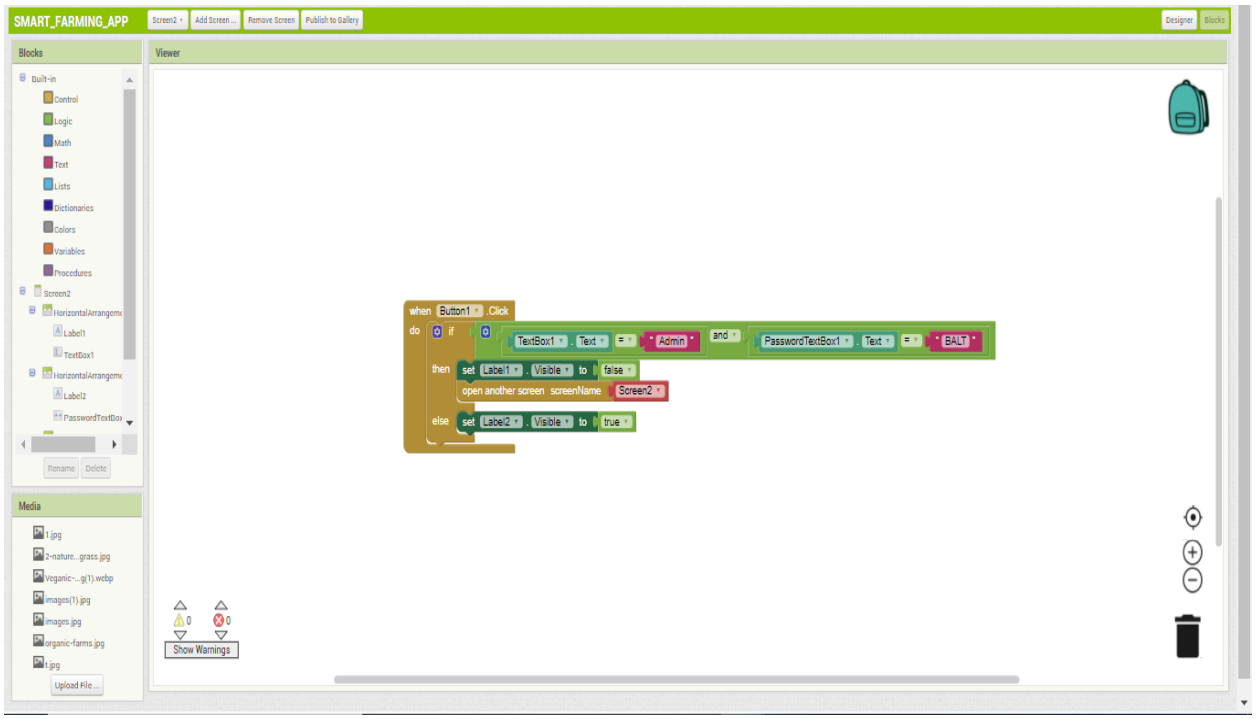
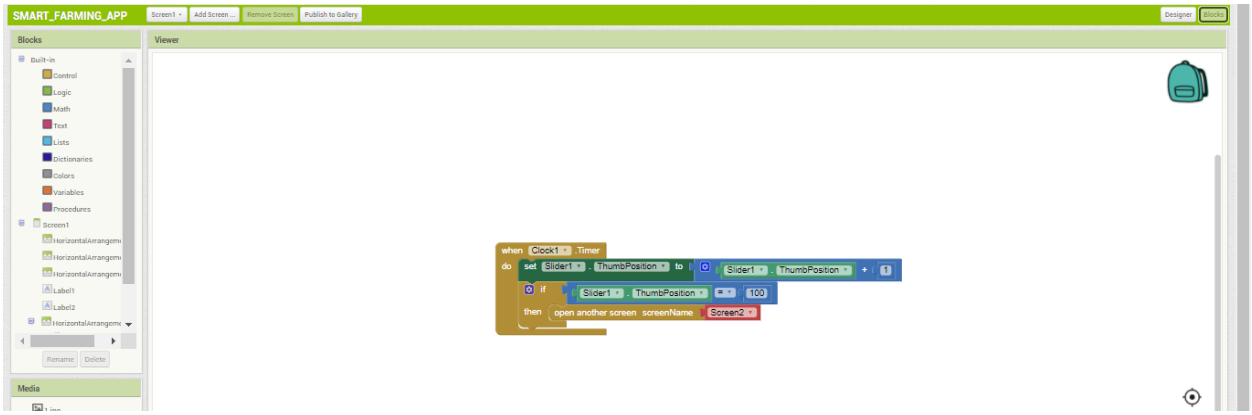
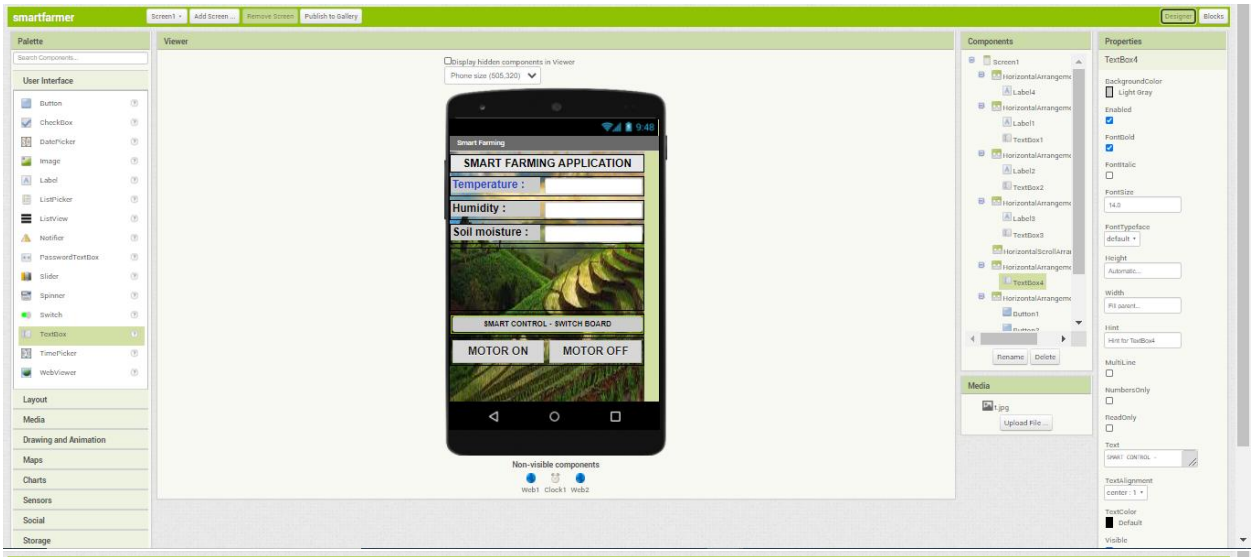
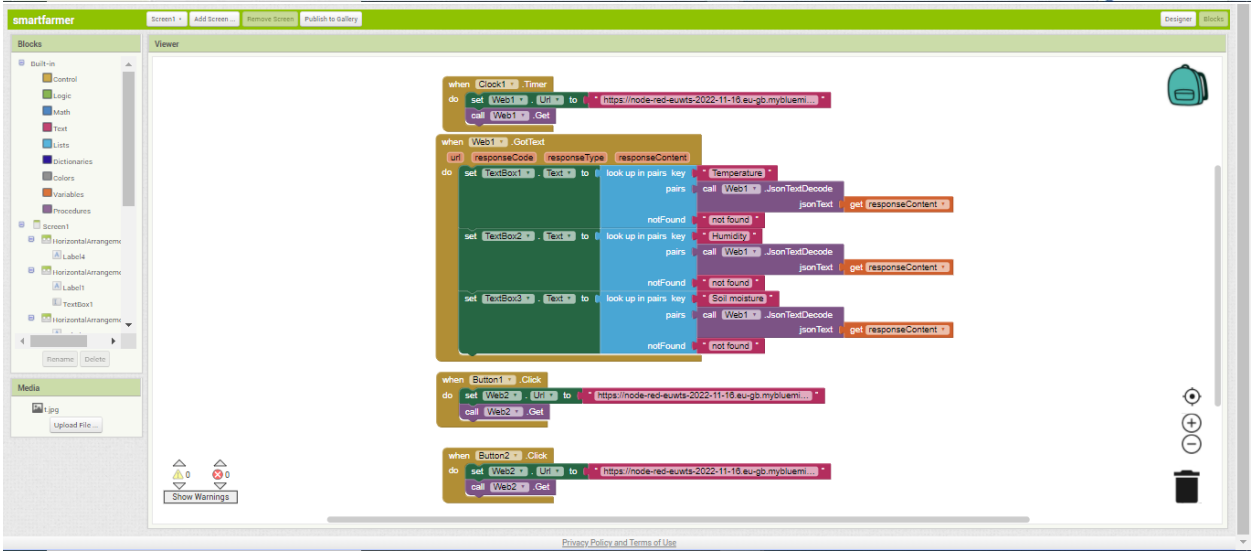



SMART_FARMING_APP
Screen2
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen2
HorizontalArrangem
Label1
TextBox1
HorizontalArrangem
Label2
PasswordTextBox
Rename
Delete
Media
1.jpg
2-nature...grass.jpg
Veganic-...g(1).webp
images(1).jpg
images.jpg
organic-farms.jpg
t.jpg
Upload File ...
Viewer
when Button1 .Click
do if TextBox1 . Text = " Admin " and PasswordTextBox1 . Text = " BALT "
then set Label1 . Visible to false
open another screen screenName Screen2
else set Label2 . Visible to true
0
0
Show Warnings


SMART_FARMING_APP
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
HorizontalArrangem
HorizontalArrangem
HorizontalArrangem
Label1
Label2
HorizontalArrangem
Rename
Delete
Media
Viewer
when Clock1 .Timer
do set Slider1 . ThumbPosition to Slider1 . ThumbPosition + 1
if Slider1 . ThumbPosition = 100
then open another screen screenName Screen2

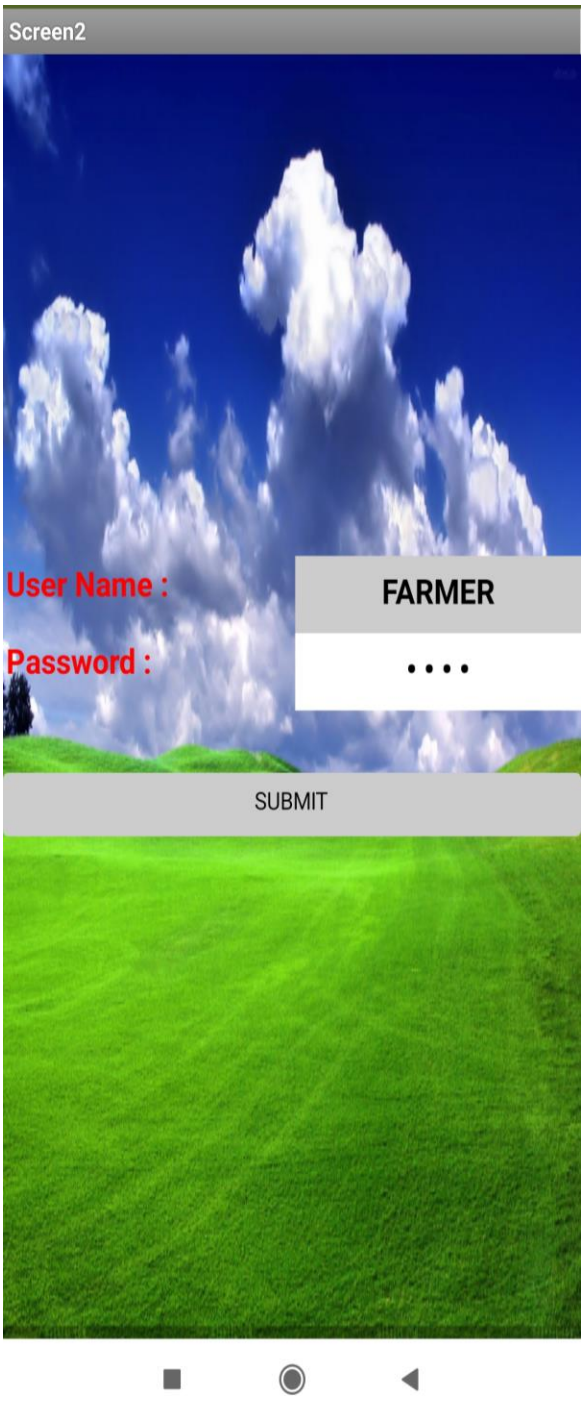

smartfarmer
Palette
Viewer
Components
Properties
SMART FARMING APPLICATION
Temperature :
Humidity :
Soil moisture :
SMART CONTROL - SWITCH BOARD
MOTOR ON
MOTOR OFF
Non-visible components


smartfarmer
Blocks
Viewer
when Clock1 .Timer
set Web1 . Url to https://node-red-euwts-2022-11-16.eu-gb.mybluemi...
call Web1 .Get
when Web1 .GotText
set TextBox1 . Text to look up in pairs key Temperature
set TextBox2 . Text to look up in pairs key Humidity
set TextBox3 . Text to look up in pairs key Soil moisture
when Button1 .Click
when Button2 .Click
Show Warnings
Privacy Policy and Terms of Use

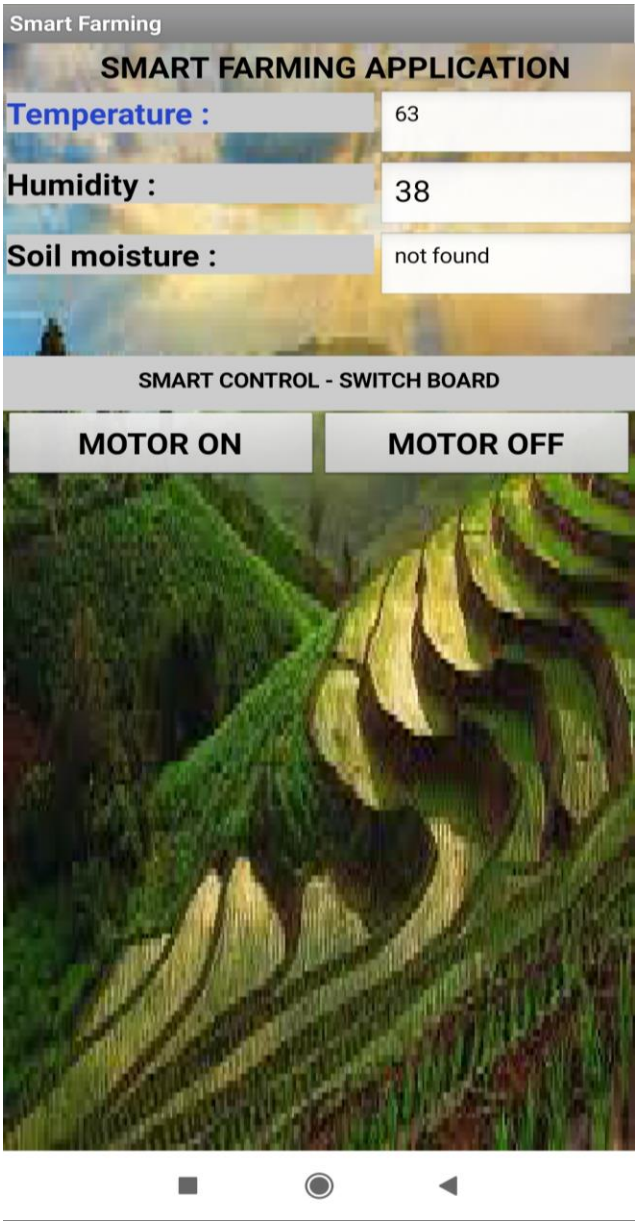
Screenshots of the mobile application:

Page 1:

Page 2:



Page 3:


Smart Farming
SMART FARMING APPLICATION
Temperature :
63
Humidity :
38
Soil moisture :
not found
SMART CONTROL - SWITCH BOARD
MOTOR ON
MOTOR OFF

Python code output: