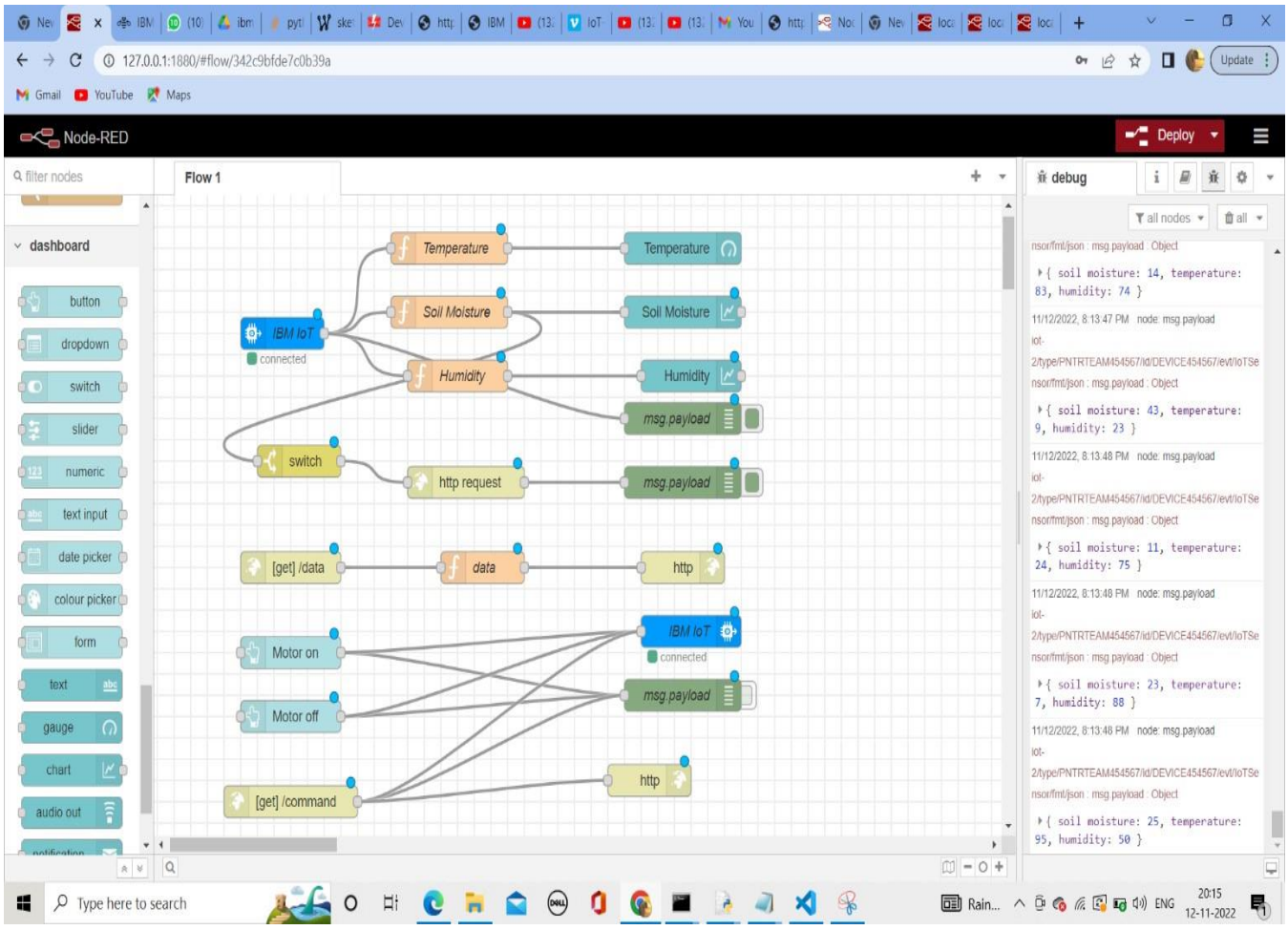
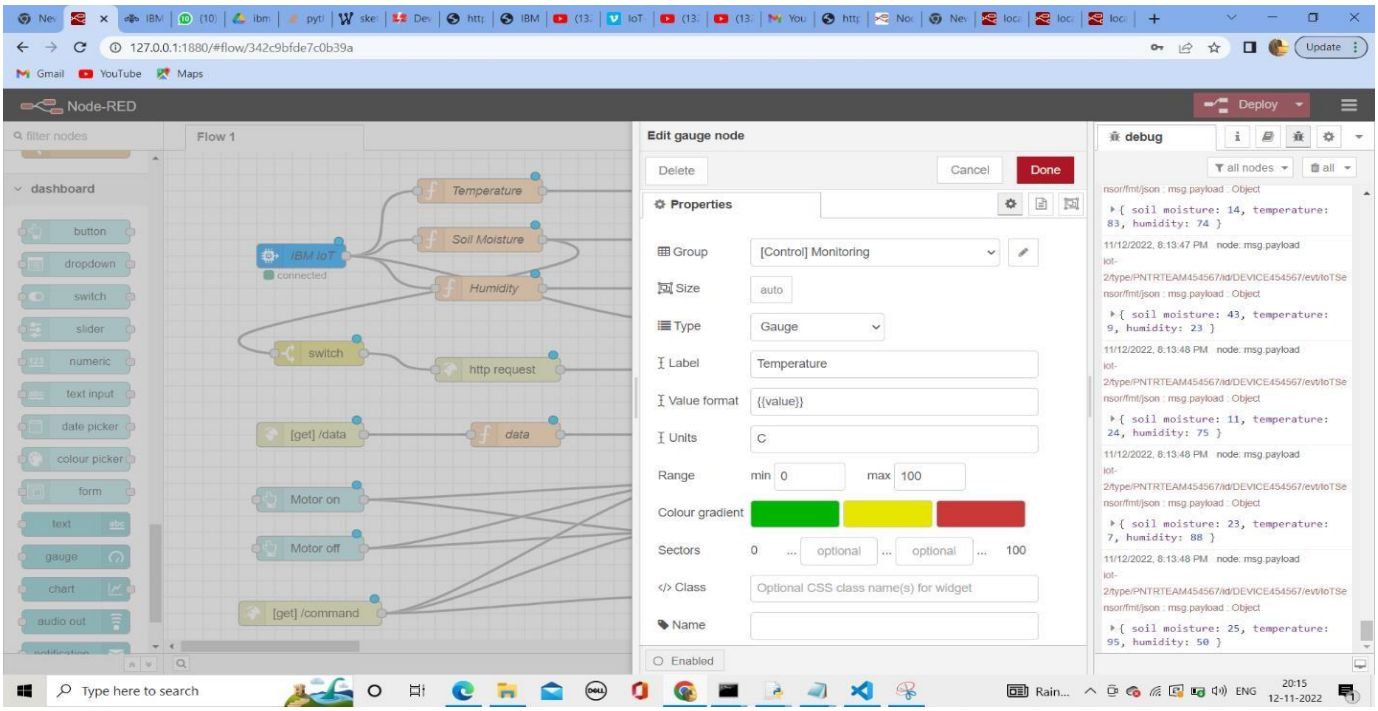
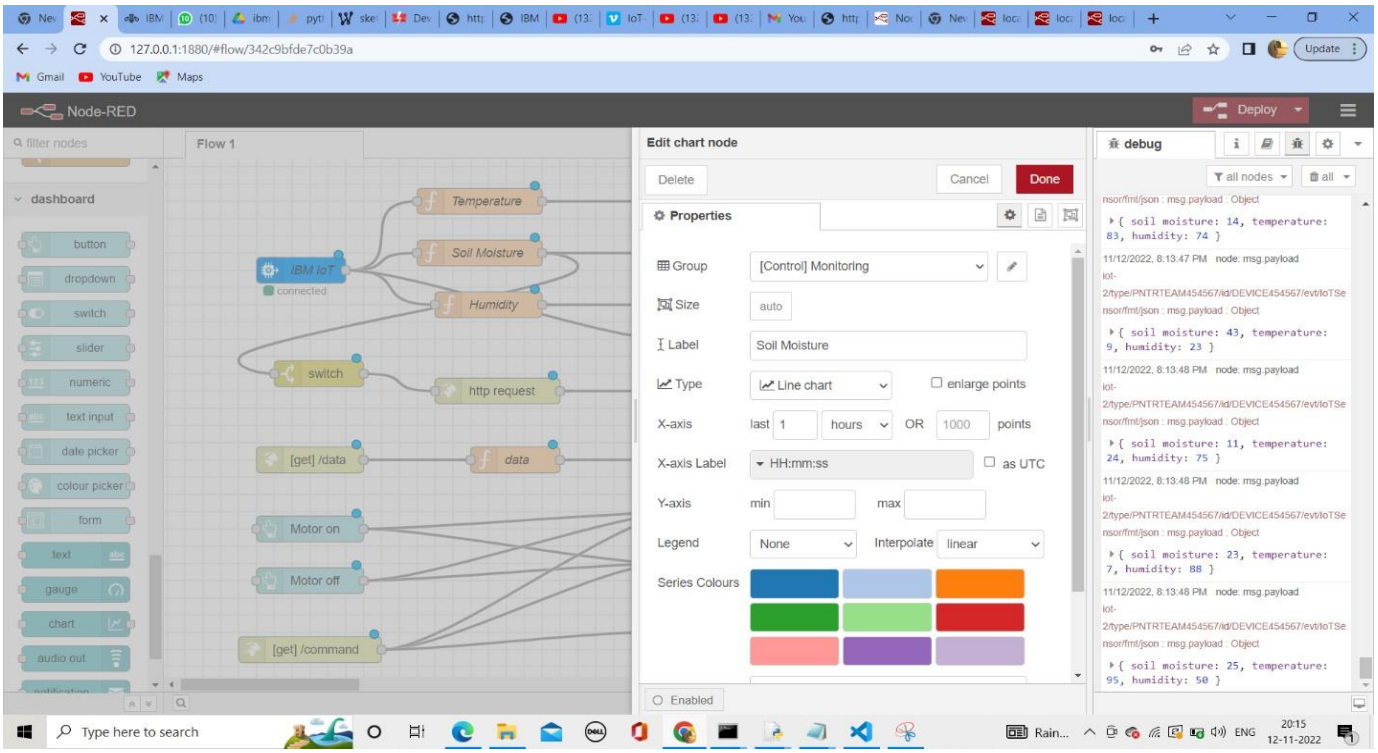
BUILD A WEB APPLICATION USING NODE-RED SERVICE

Date	12 November 2022
Team ID	PNT2022TMID47454
Project Name	SMART FARMER-IOT ENABLED SMART FARMING APPLICATION

BUILD A WEB APPLICATION USING NODE-RED SERVICE :




127.0.0.1:1880/#flow/342c9bfde7c0b39a
Node-RED
Deploy
Flow 1
dashboard
button
dropdown
switch
slider
numeric
text input
date picker
colour picker
form
text
gauge
chart
audio out
Temperature
Soil Moisture
Humidity
IBM IoT
connected
switch
http request
[get] /data
data
Motor on
Motor off
[get] /command
Edit gauge node
Delete
Cancel
Done
Properties
Group
[Control] Monitoring
Size
auto
Type
Gauge
Label
Temperature
Value format
{{value}}
Units
C
Range
min 0
max 100
Colour gradient
Sectors
0 ... optional ... optional ... 100
Class
Optional CSS class name(s) for widget
Name
Enabled
debug
all nodes
{ soil moisture: 14, temperature: 83, humidity: 74 }
{ soil moisture: 43, temperature: 9, humidity: 23 }
{ soil moisture: 11, temperature: 24, humidity: 75 }
{ soil moisture: 23, temperature: 7, humidity: 88 }
{ soil moisture: 25, temperature: 95, humidity: 50 }
Type here to search
ENG
20:15
12-11-2022


127.0.0.1:1880/#flow/342c9bfde7c0b39a
Node-RED
Deploy
Flow 1
dashboard
Edit chart node
Delete
Cancel
Done
Properties
Group
[Control] Monitoring
Size
auto
Label
Soil Moisture
Type
Line chart
enlarge points
X-axis
last 1 hours OR 1000 points
X-axis Label
HH:mm:ss
as UTC
Y-axis
min
max
Legend
None
Interpolate
linear
Series Colours
Enabled
debug
{ soil moisture: 14, temperature: 83, humidity: 74 }
{ soil moisture: 43, temperature: 9, humidity: 23 }
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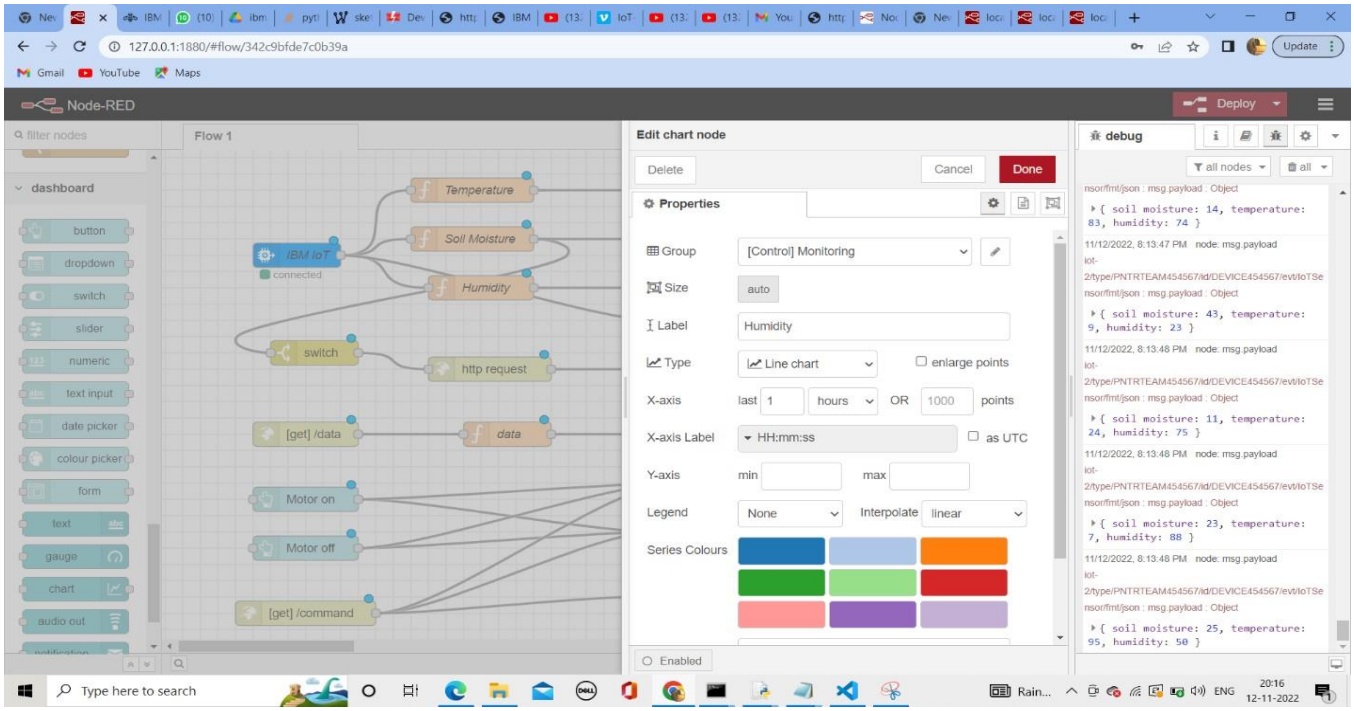
20:15
12-11-2022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Node-RED
Deploy
Flow 1
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dropdown
switch
slider
numeric
text input
date picker
colour picker
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text
gauge
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Temperature
Soil Moisture
IBM IoT
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Humidity
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data
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auto
Label
Humidity
Type
Line chart
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X-axis
last 1 hours OR 1000 points
X-axis Label
HH:mm:ss
as UTC
Y-axis
min
max
Legend
None
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Series Colours
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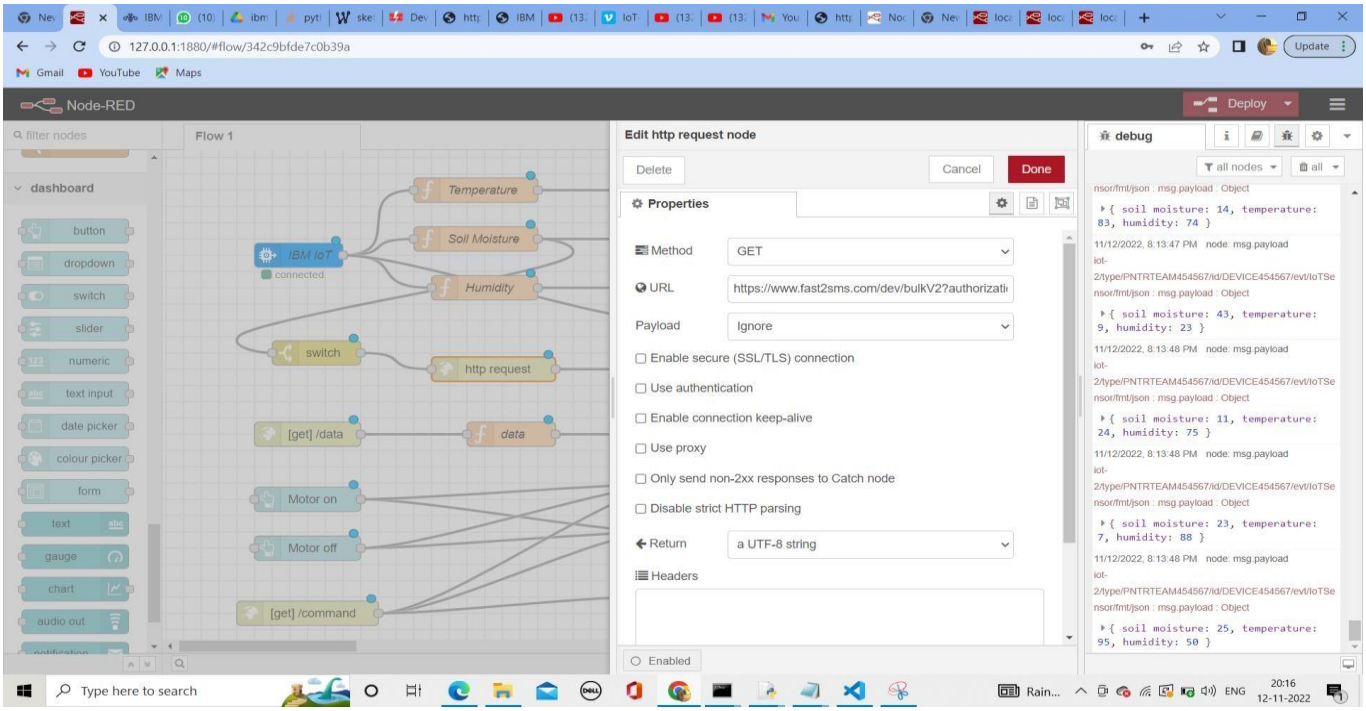
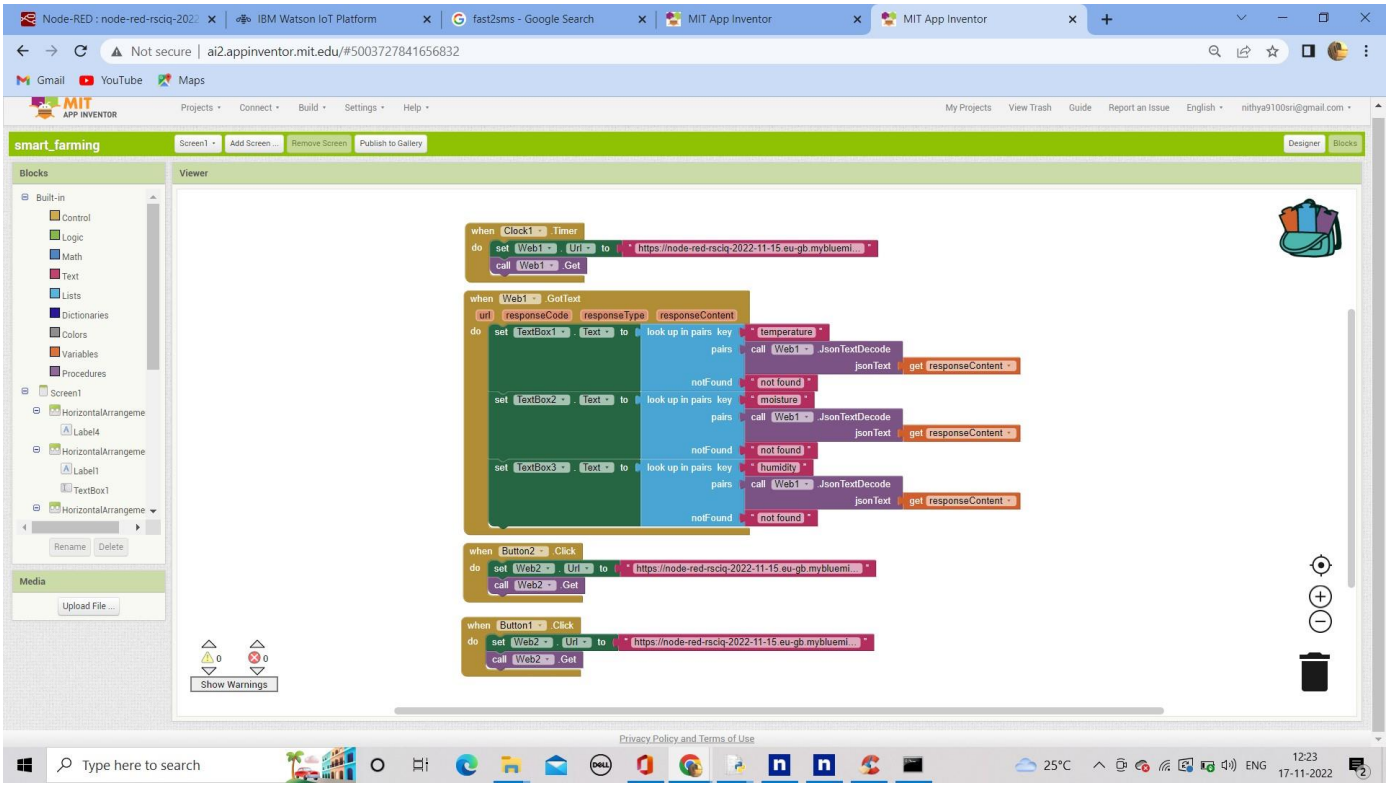
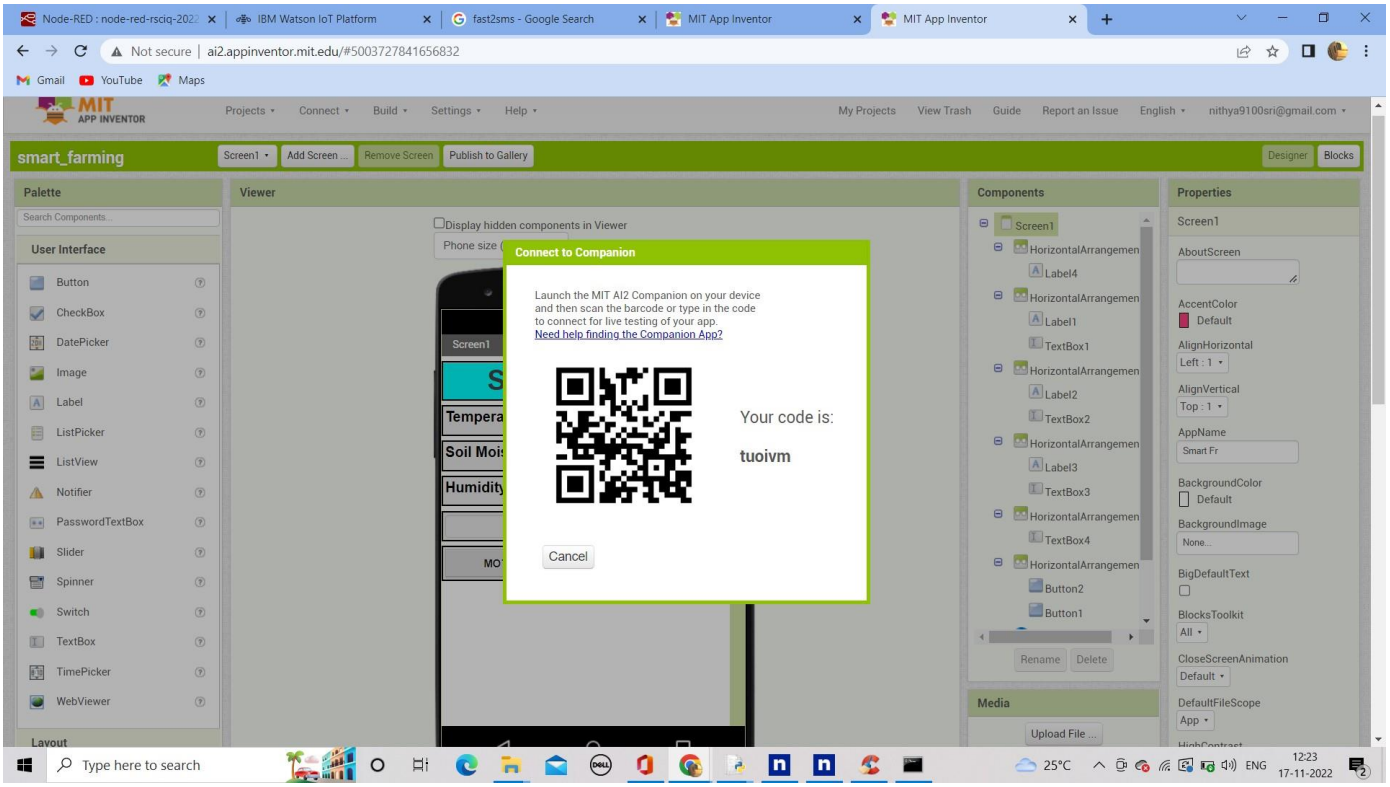
12-11-2022


127.0.0.1:1880/#flow/342c9bfde7c0b39a
Node-RED
Deploy
Flow 1
dashboard
Edit http request node
Delete
Cancel
Done
Properties
Method
GET
URL
https://www.fast2sms.com/dev/bulkV2?authorizati
Payload
Ignore
Enable secure (SSL/TLS) connection
Use authentication
Enable connection keep-alive
Use proxy
Only send non-2xx responses to Catch node
Disable strict HTTP parsing
Return
a UTF-8 string
Headers
Enabled
debug
Type here to search
20:16
12-11-2022


Node-RED : node-red-rsciq-2022
IBM Watson IoT Platform
fast2sms - Google Search
MIT App Inventor
MIT App Inventor
Not secure | ai2.appinventor.mit.edu/#5003727841656832
Gmail
YouTube
Maps
smart_farming
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Viewer
when Clock1 . Timer
do set Web1 . Url to https://node-red-rsciq-2022-11-15.eu-gb.mybluemi...
call Web1 . Get
when Web1 . GotText
url responseCode responseType responseContent
set TextBox1 . Text to look up in pairs key temperature
pairs call Web1 . JsonTextDecode
jsonText get responseContent
notFound not found
set TextBox2 . Text to look up in pairs key moisture
set TextBox3 . Text to look up in pairs key humidity
when Button2 . Click
when Button1 . Click
Show Warnings
Privacy Policy and Terms of Use
Type here to search
25°C
ENG
12:23
17-11-2022


Node-RED : node-red-rsciq-2022
IBM Watson IoT Platform
fast2sms - Google Search
MIT App Inventor
MIT App Inventor
Not secure | ai2.appinventor.mit.edu/#5003727841656832
Gmail
YouTube
Maps
smart_farming
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Palette
Search Components...
User Interface
Button
CheckBox
DatePicker
Image
Label
ListPicker
ListView
Notifier
PasswordTextBox
Slider
Spinner
Switch
TextBox
TimePicker
WebViewer
Layout
Viewer
Display hidden components in Viewer
Phone size
Connect to Companion
Launch the MIT AI2 Companion on your device and then scan the barcode or type in the code to connect for live testing of your app.
Need help finding the Companion App?
Your code is:
tuoivm
Cancel
Components
Screen1
HorizontalArrangemen
Label4
Label1
TextBox1
Label2
TextBox2
Label3
TextBox3
TextBox4
Button2
Button1
Rename
Delete
Media
Upload File ...
Properties
Screen1
AboutScreen
AccentColor
Default
AlignHorizontal
Left : 1
AlignVertical
Top : 1
AppName
Smart Fr
BackgroundColor
Default
BackgroundImage
None...
BigDefaultText
BlocksToolkit
All
CloseScreenAnimation
Default
DefaultFileScope
App
Type here to search
25°C
ENG
12:23
17-11-2022

Web url to get temperature, humidity and soil moisture value:

https://node-red-rsciq-2022-11-15.eu-gb.mybluemix.net/data

Web url to control Motor on and off:

https://node-red-rsciq-2022-11-15.eu-gb.mybluemix.net/command?command=motoron

https://node-red-rsciq-2022-11-15.eu-gb.mybluemix.net/command?command=motoroff