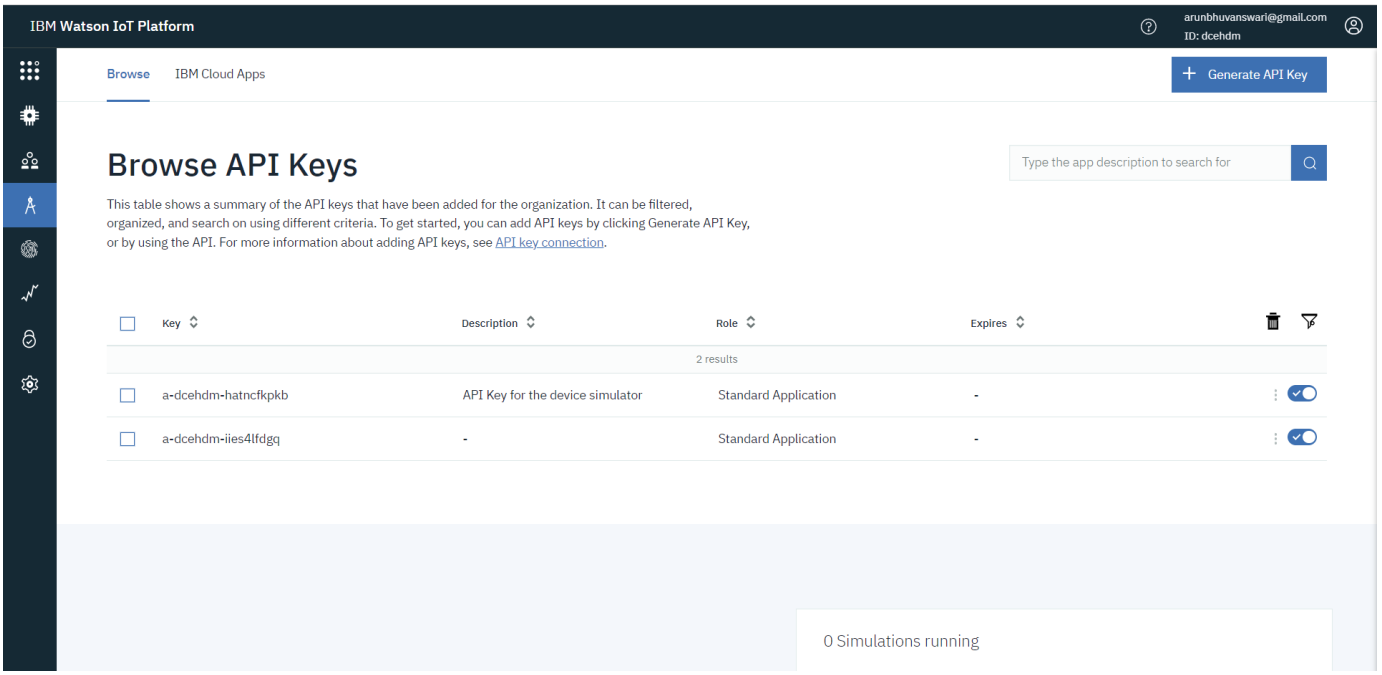
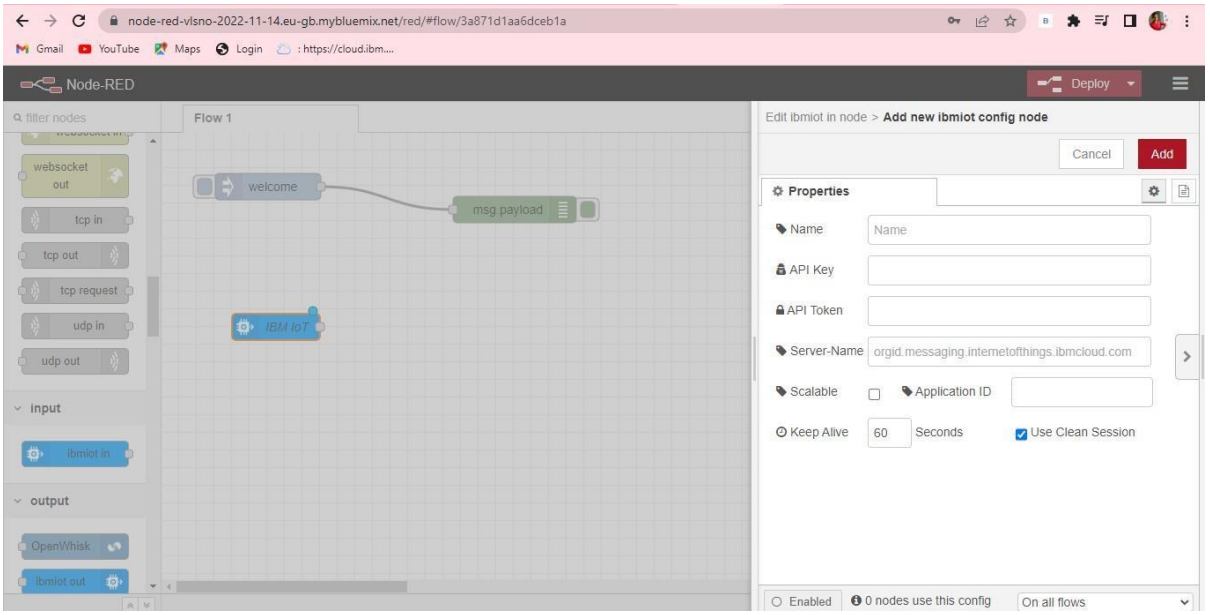
Build A Web Application Using Node-RED

Team ID	PNT2022TMID08745
Project Name	Smart Farmer - IoT Enabled Smart FarmingApplication

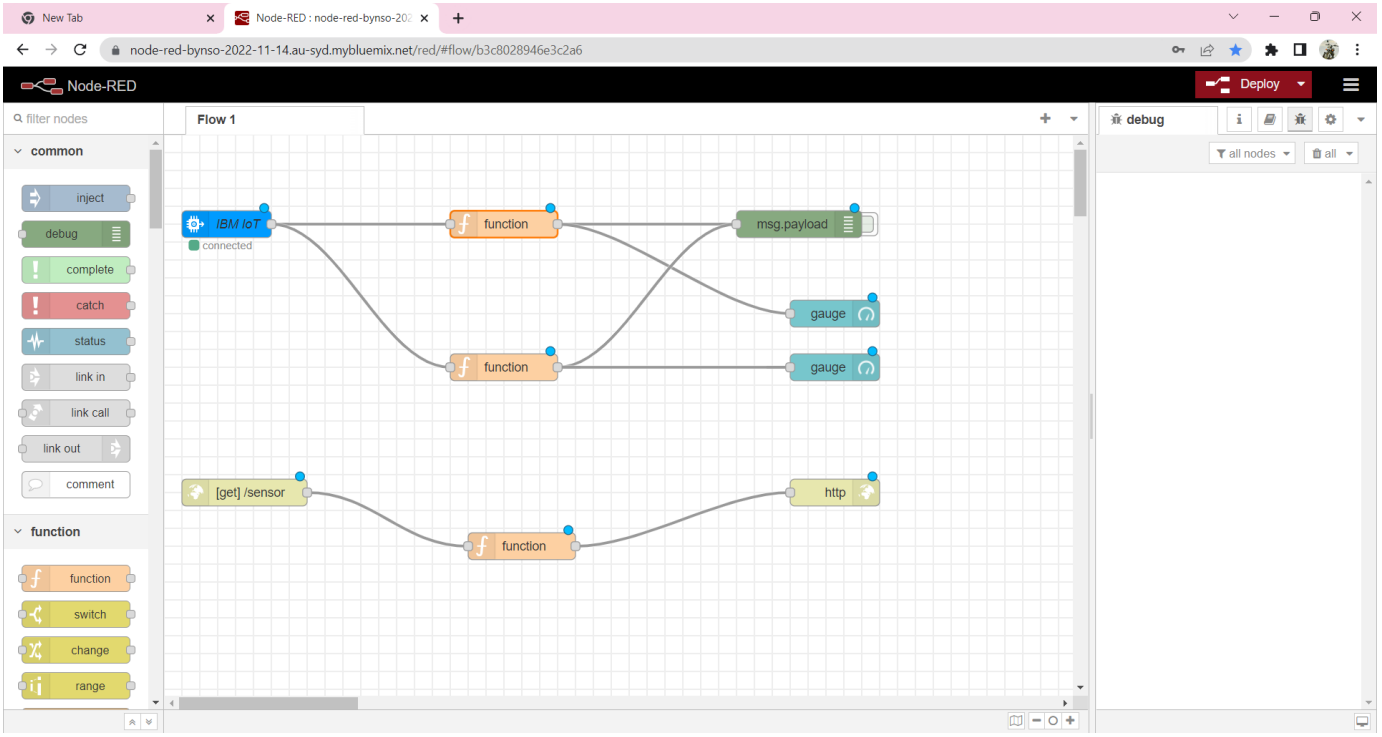
Open IBM Watson and click Apps and Generate API key



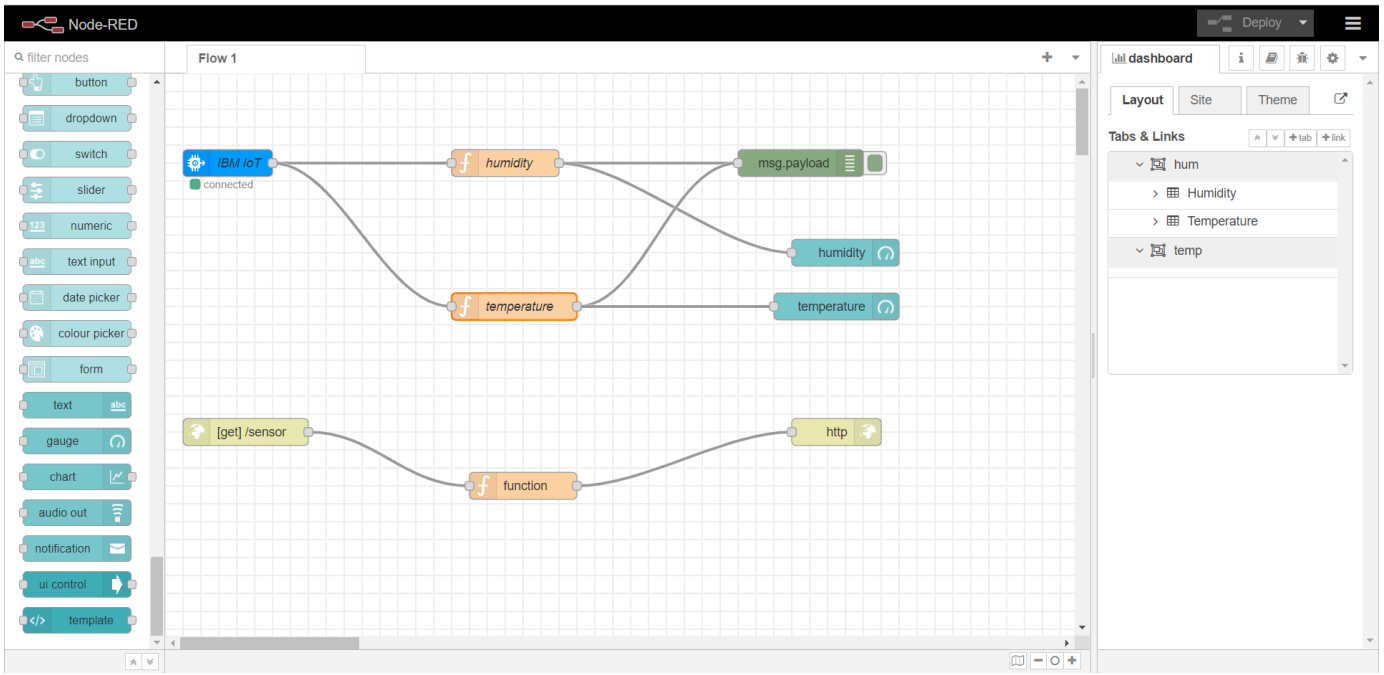
First open Node RED workspace and drag IBM IOT input into the workspace. Itwill as Ask API key, device id ,device type etc.

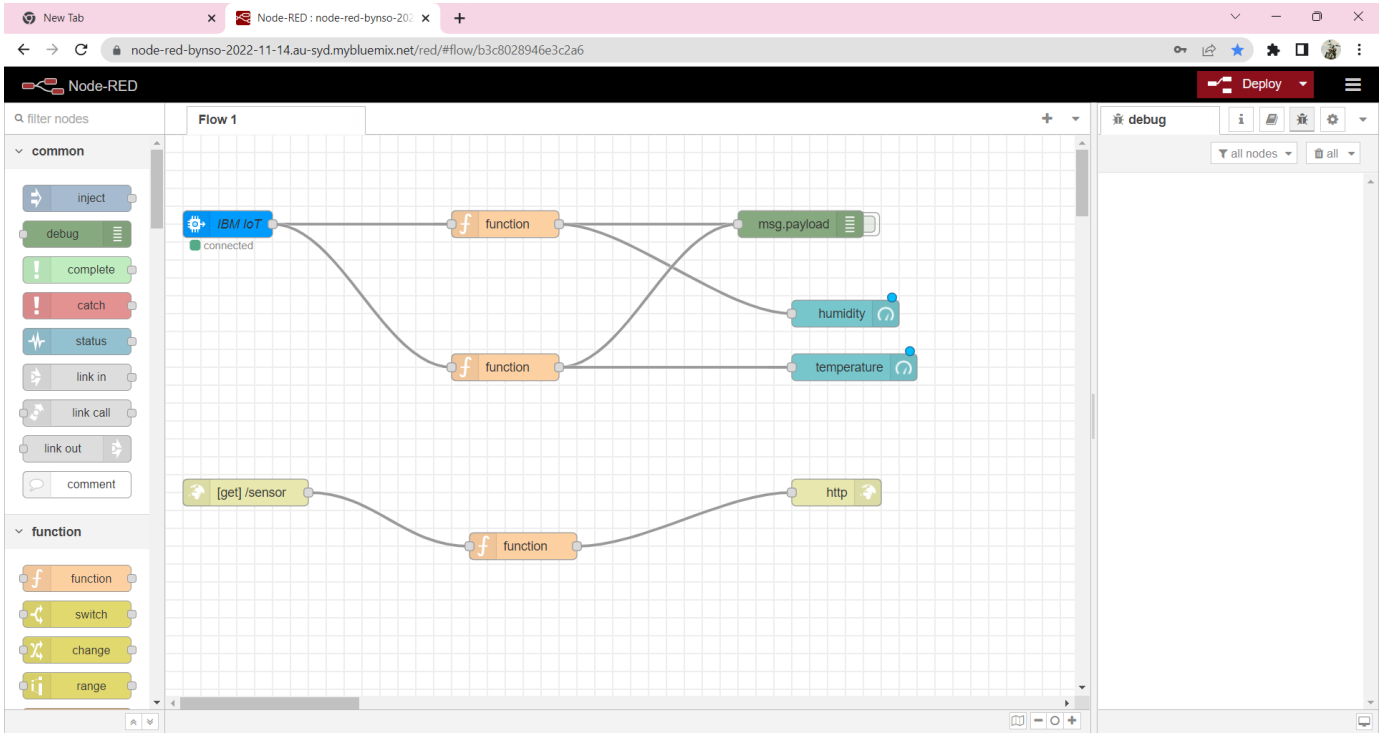


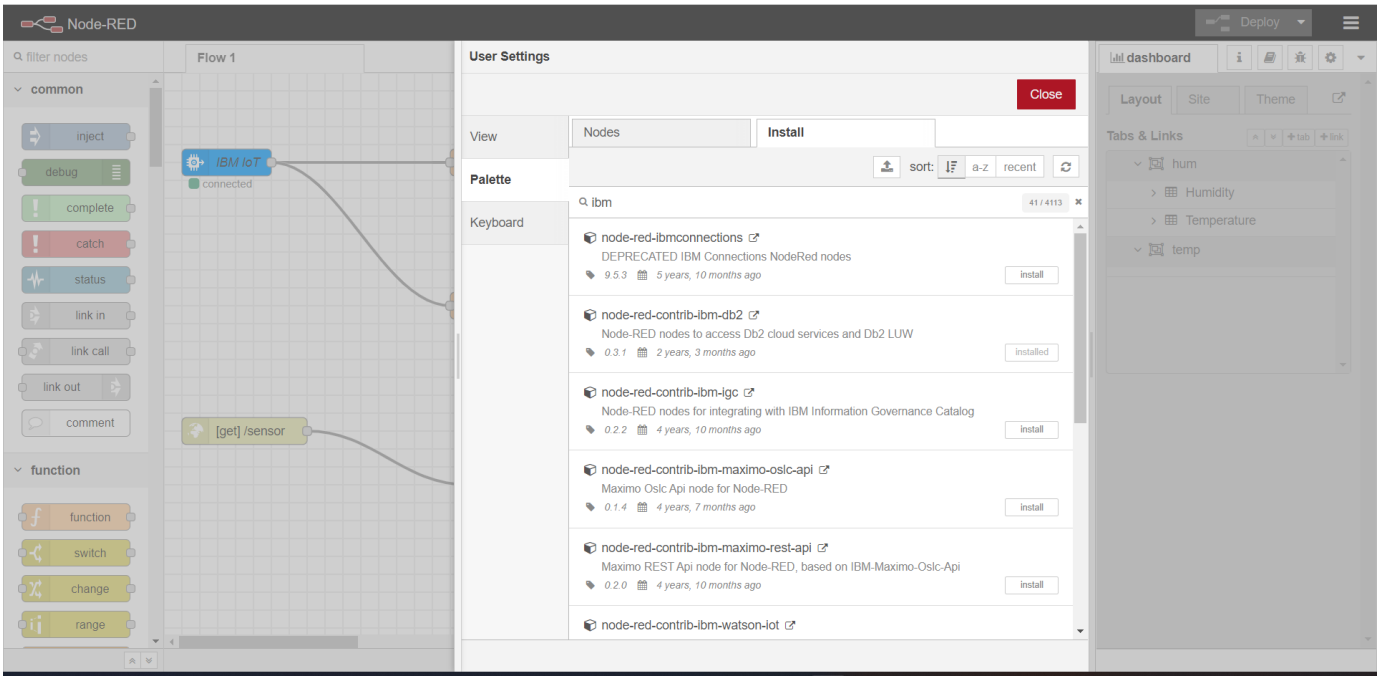
Output from IBM IOT

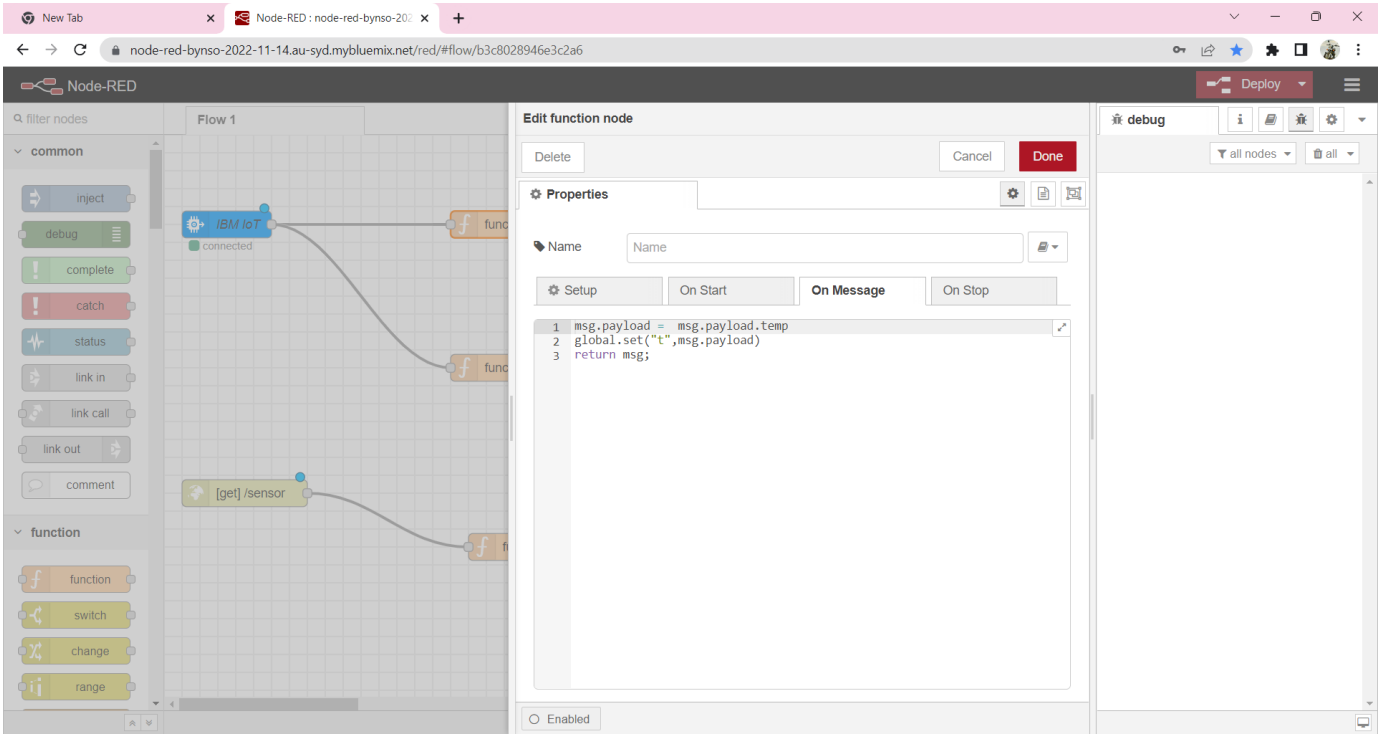


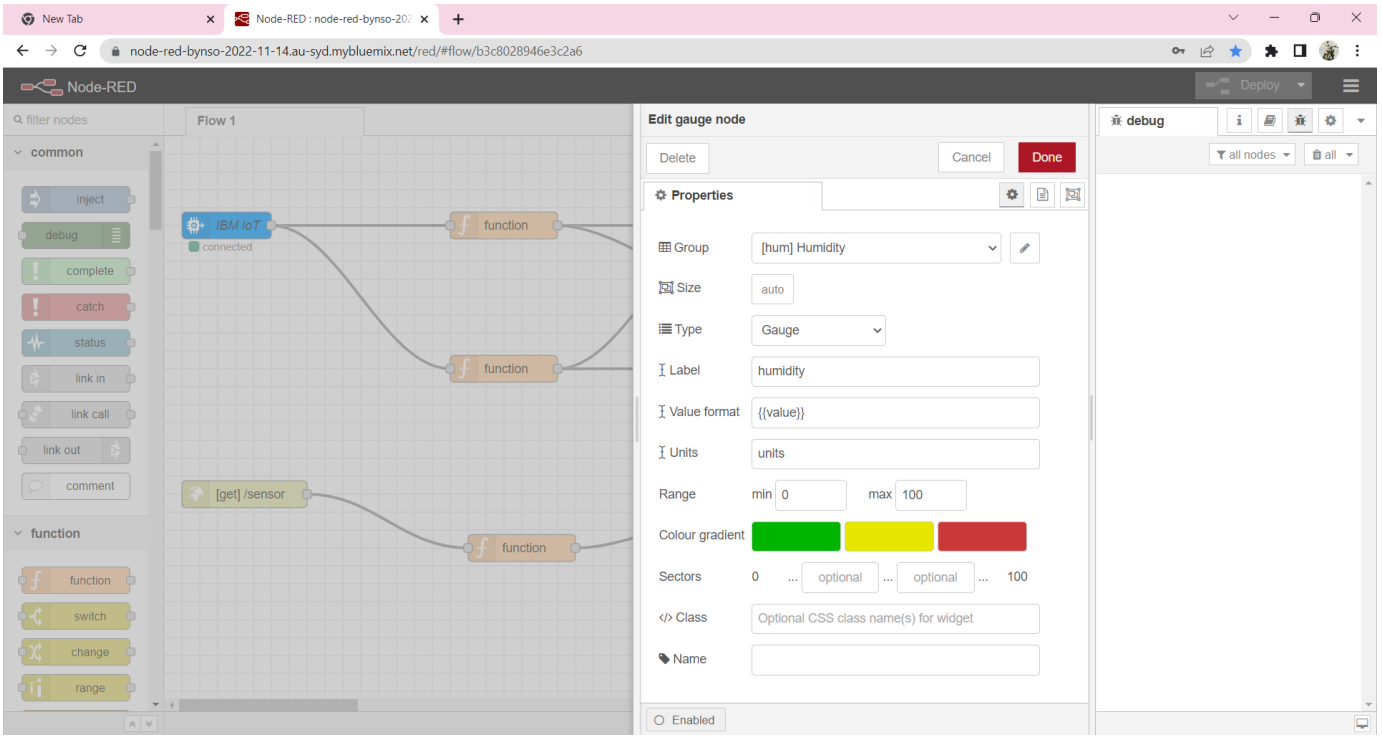
And take a function node and rename it



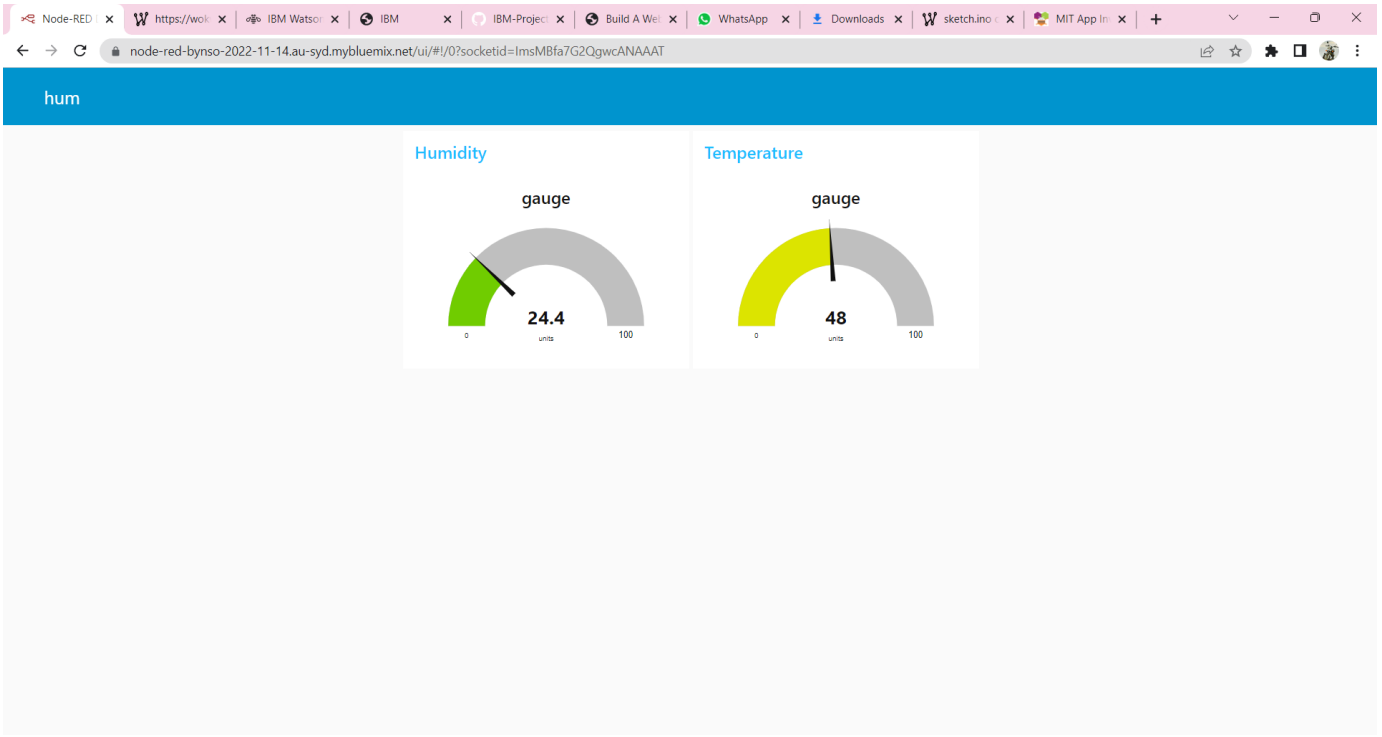



Node-RED
Deploy
filter nodes
Flow 1
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
change
range
IBM IoT
connected
[get] /sensor
User Settings
Close
View
Palette
Keyboard
Nodes
Install
sort:
a-z
recent
ibm
41 / 4113
node-red-ibmconnections
DEPRECATED IBM Connections NodeRed nodes
9.5.3
5 years, 10 months ago
install
node-red-contrib-ibm-db2
Node-RED nodes to access Db2 cloud services and Db2 LUW
0.3.1
2 years, 3 months ago
installed
node-red-contrib-ibm-igc
Node-RED nodes for integrating with IBM Information Governance Catalog
0.2.2
4 years, 10 months ago
install
node-red-contrib-ibm-maximo-oslc-api
Maximo Oslc Api node for Node-RED
0.1.4
4 years, 7 months ago
install
node-red-contrib-ibm-maximo-rest-api
Maximo REST Api node for Node-RED, based on IBM-Maximo-Oslc-Api
0.2.0
4 years, 10 months ago
install
node-red-contrib-ibm-watson-iot
dashboard
Layout
Site
Theme
Tabs & Links
hum
Humidity
Temperature
temp

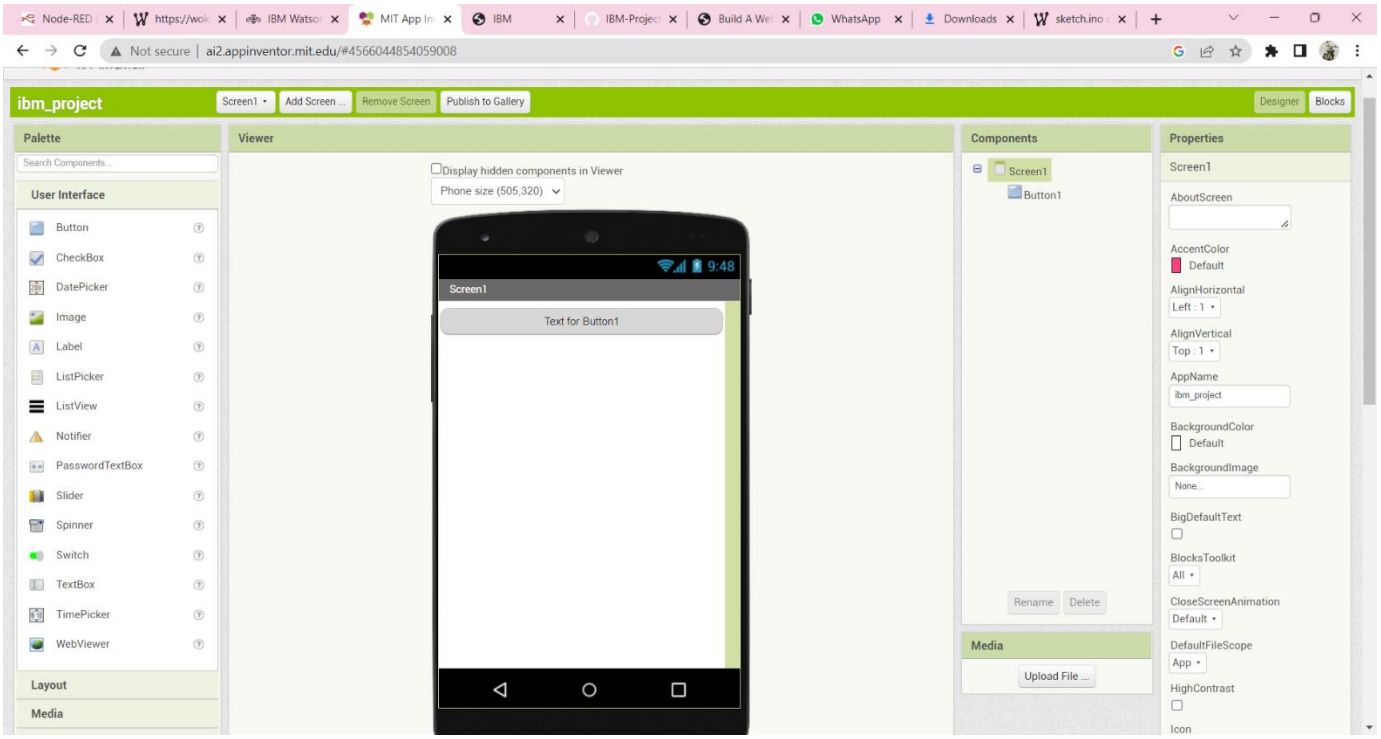

New Tab
Node-RED : node-red-bynso-202
node-red-bynso-2022-11-14.au-syd.mybluemix.net/red/#flow/b3c8028946e3c2a6
Node-RED
Deploy
filter nodes
Flow 1
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
change
range
IBM IoT
connected
[get] /sensor
Edit function node
Delete
Cancel
Done
Properties
Name
Name
Setup
On Start
On Message
On Stop
1 msg.payload = msg.payload.temp
2 global.set("t",msg.payload)
3 return msg;
Enabled
debug
all nodes
all

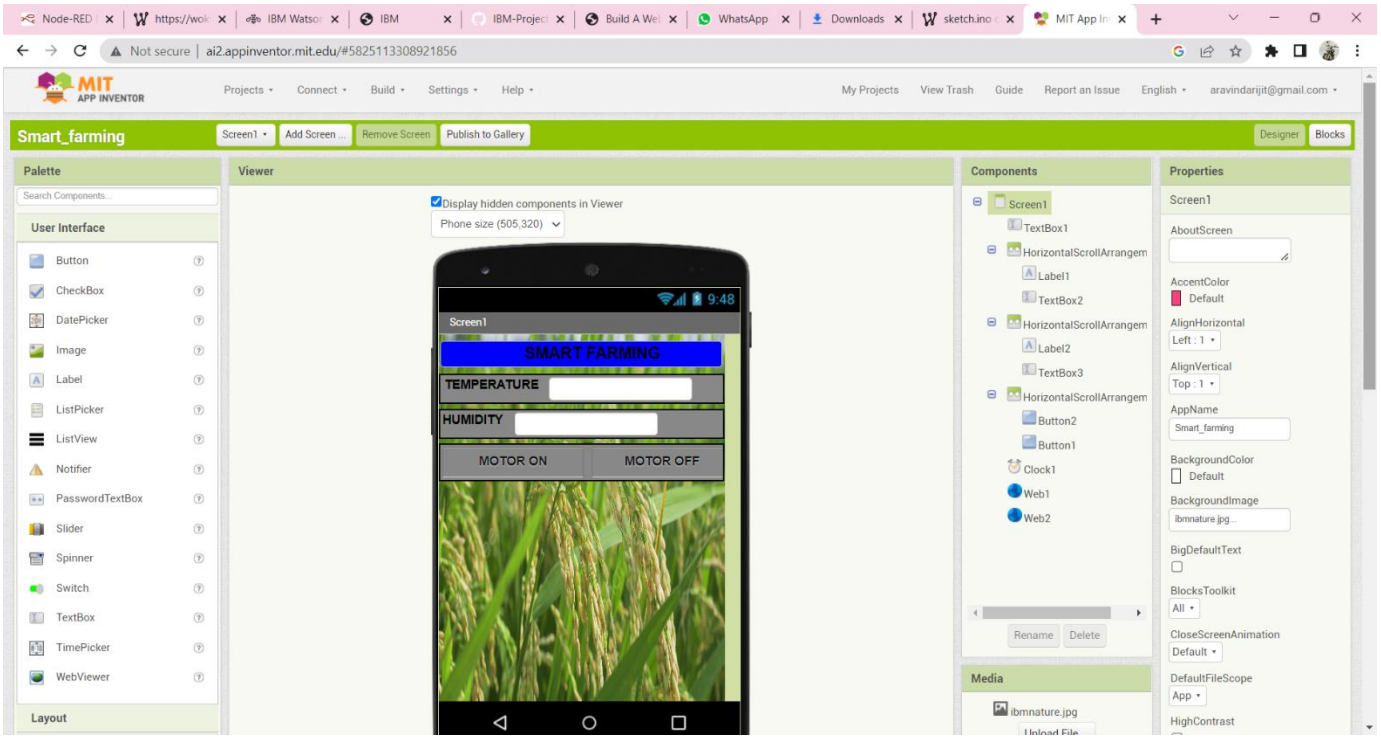

New Tab
Node-RED : node-red-bynso-202
node-red-bynso-2022-11-14.au-syd.mybluemix.net/red/#flow/b3c8028946e3c2a6
Node-RED
Deploy
filter nodes
Flow 1
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
change
range
IBM IoT
connected
function
function
[get] /sensor
function
Edit gauge node
Delete
Cancel
Done
Properties
Group
[hum] Humidity
Size
auto
Type
Gauge
Label
humidity
Value format
{{value}}
Units
units
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
all

Output

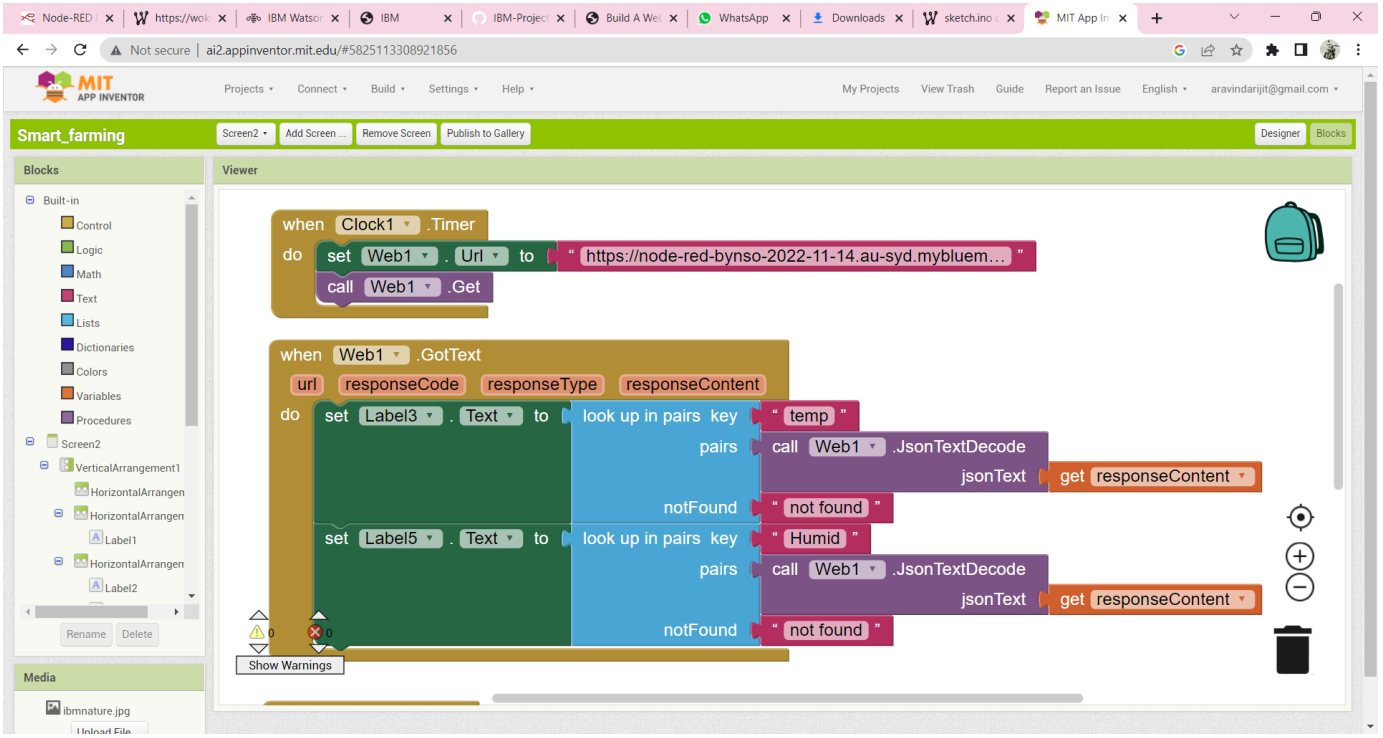

Node-RED
node-red-bynso-2022-11-14.au-syd.mybluemix.net/ui/#!/0?socketid=ImsMBfa7G2QgwcANAAAT
hum
Humidity
gauge
24.4
units
0
100
Temperature
gauge
48
units
0
100

Mit App Inventor





Blocks: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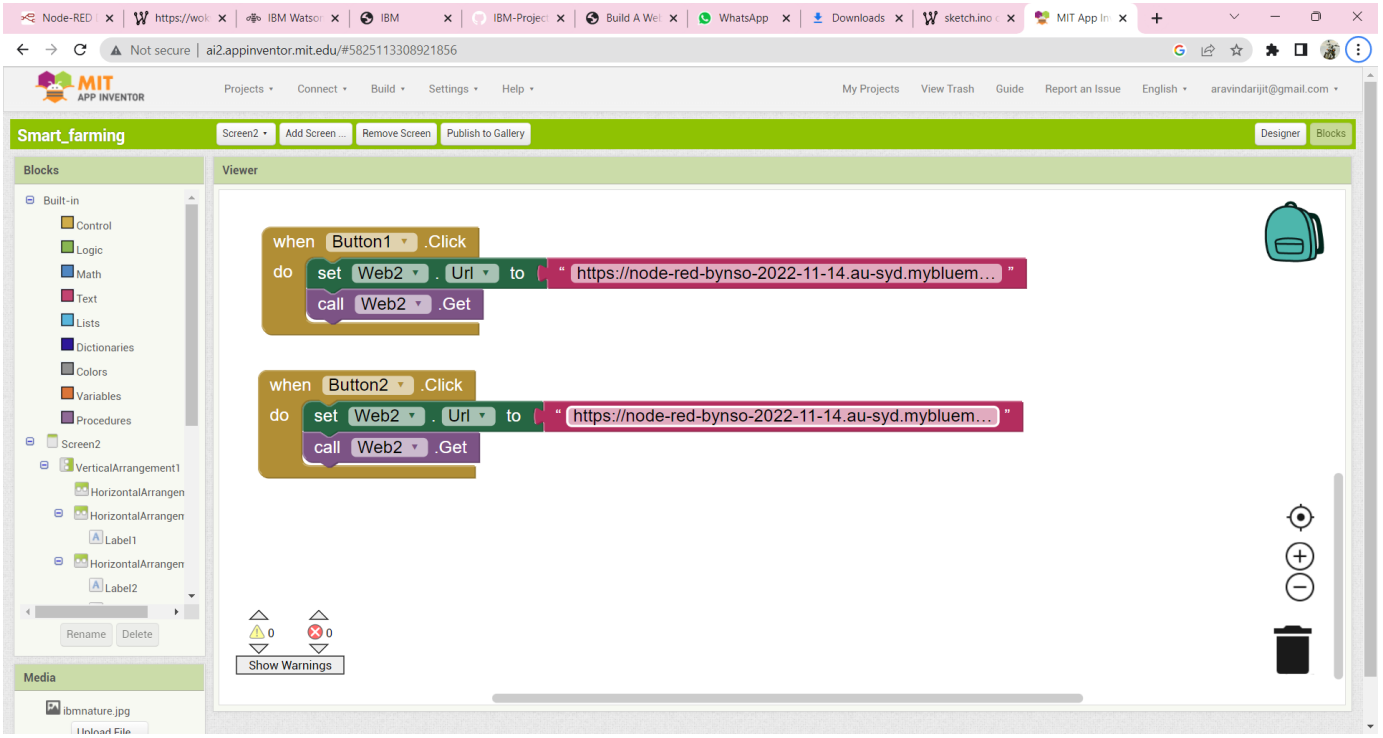
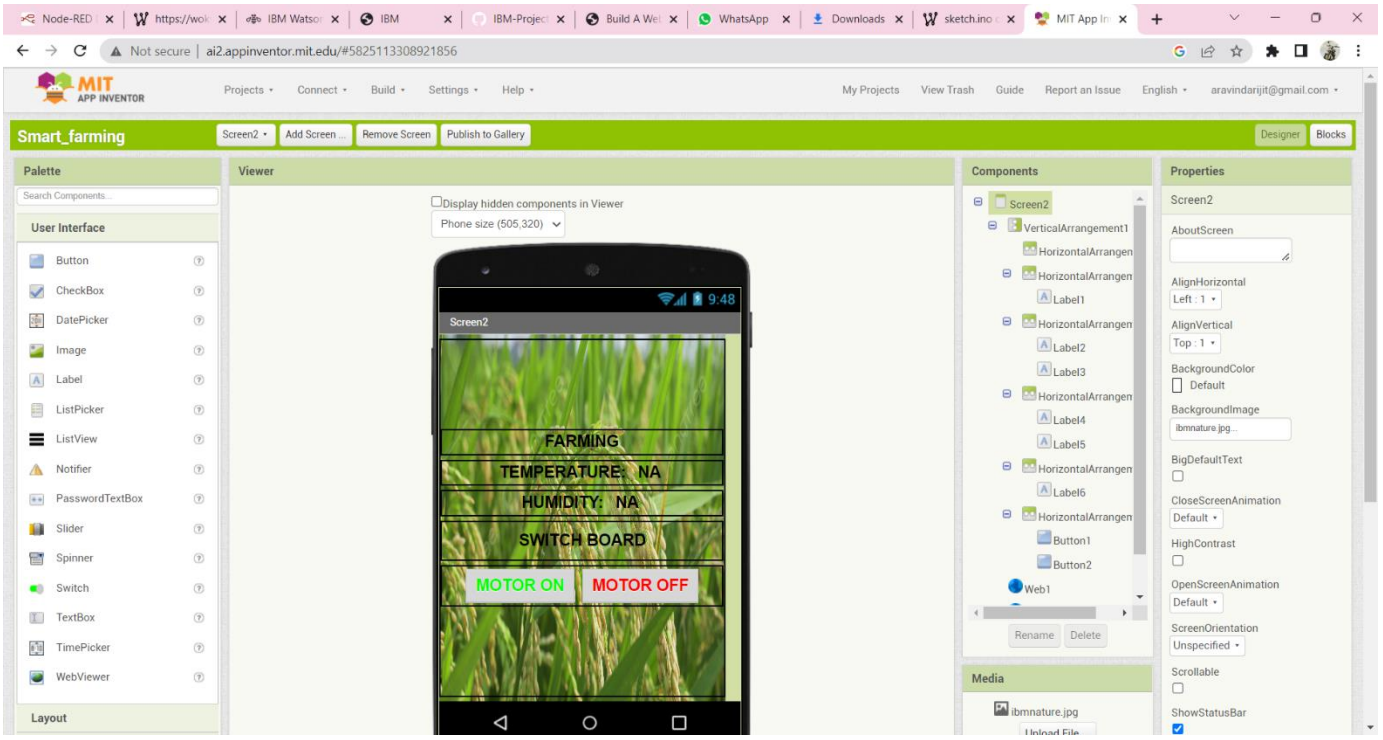
MIT APP INVENTOR
Projects
Connect
Build
Settings
Help
My Projects
View Trash
Guide
Report an Issue
English
aravindarijit@gmail.com
Smart_farming
Screen2
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen2
VerticalArrangement1
HorizontalArrangen
HorizontalArrangen
Label1
HorizontalArrangen
Label2
Rename
Delete
Media
ibmnature.jpg
Upload File
Viewer
when Clock1 .Timer
do set Web1 . Url to " https://node-red-bynso-2022-11-14.au-syd.mybluem... "
call Web1 .Get
when Web1 .GotText
url responseCode responseType responseContent
do set Label3 . Text to look up in pairs key " temp "
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound " not found "
set Label5 . Text to look up in pairs key " Humid "
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound " not found "
Show Warnings


Not secure | ai2.appinventor.mit.edu/#5825113308921856
MIT APP INVENTOR
Projects
Connect
Build
Settings
Help
My Projects
View Trash
Guide
Report an Issue
English
aravindarijit@gmail.com
Smart_farming
Screen2
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen2
VerticalArrangement1
HorizontalArrangen
HorizontalArrangen
Label1
HorizontalArrangen
Label2
Rename
Delete
Media
ibmnature.jpg
Upload File
Viewer
when Button1 .Click
do set Web2 . Url to " https://node-red-bynso-2022-11-14.au-syd.mybluem... "
call Web2 .Get
when Button2 .Click
do set Web2 . Url to " https://node-red-bynso-2022-11-14.au-syd.mybluem... "
call Web2 .Get
Show Warnings

Output:



Mobile screen: