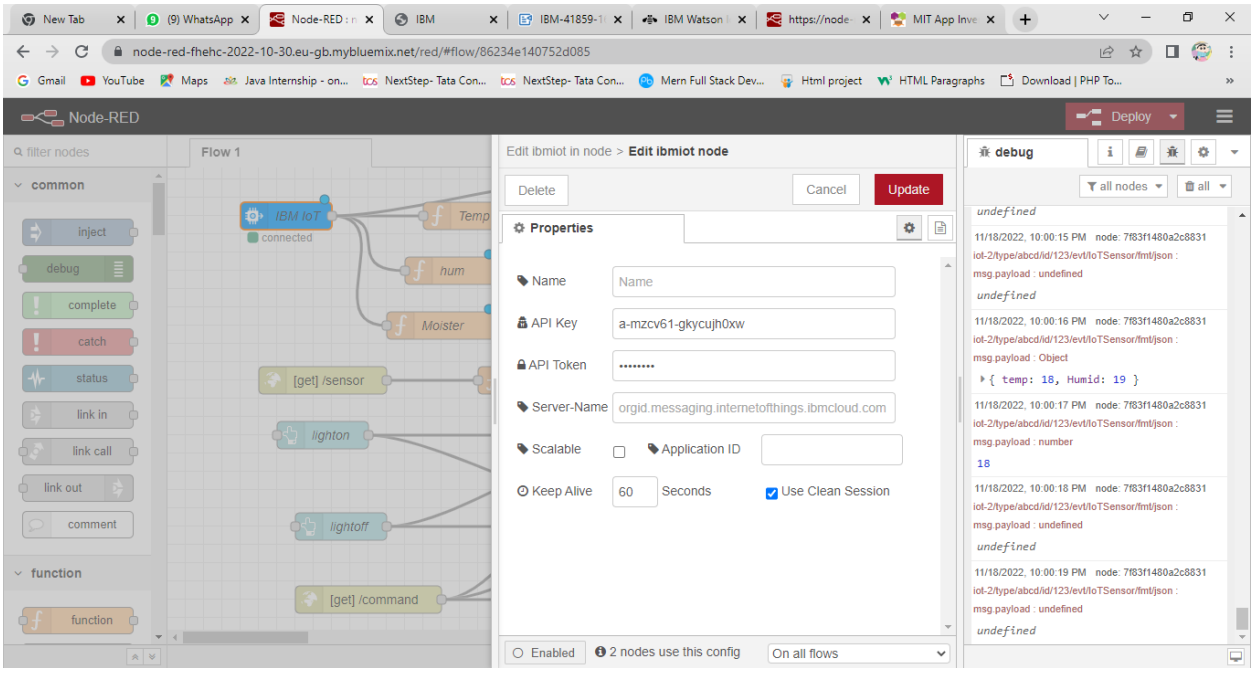
Sprint Delivery–3

TeamID	PNT2022TMID41351
ProjectName	Smart Farmer-IOT Enabled Smart Farming Application

Configuration of Node-Red to send command to IBM cloud



I

Here we add two buttons in UI

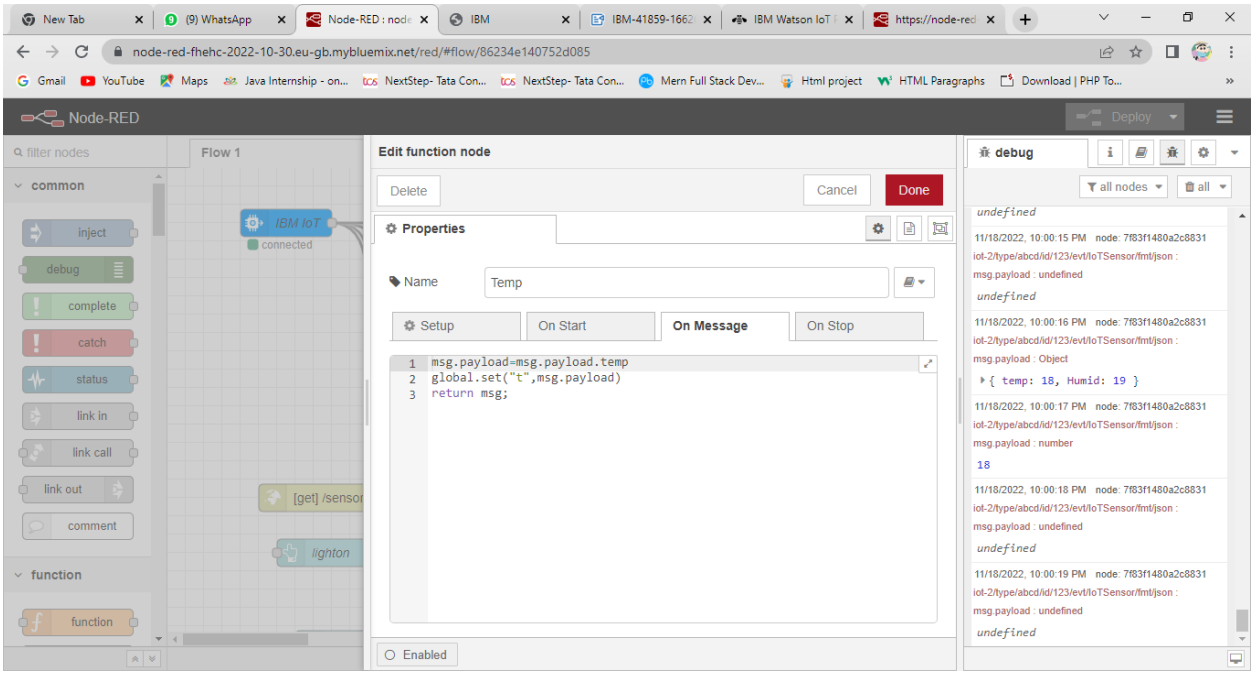
1) for light on

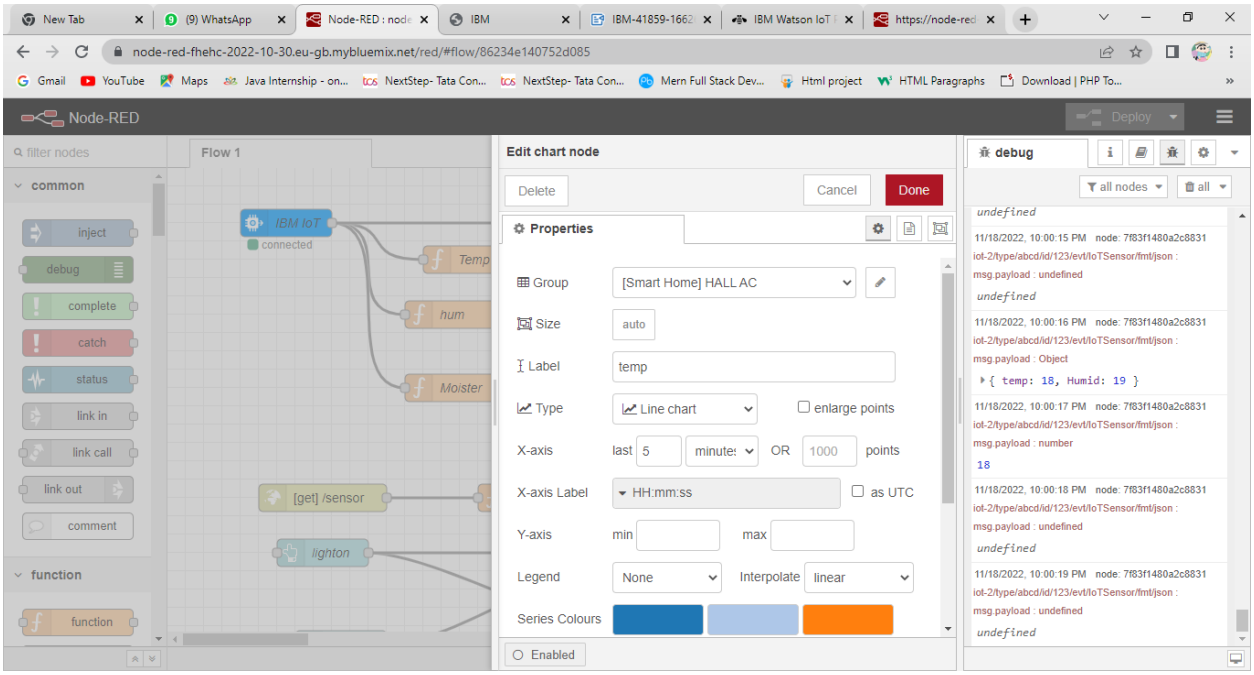
2)for light off

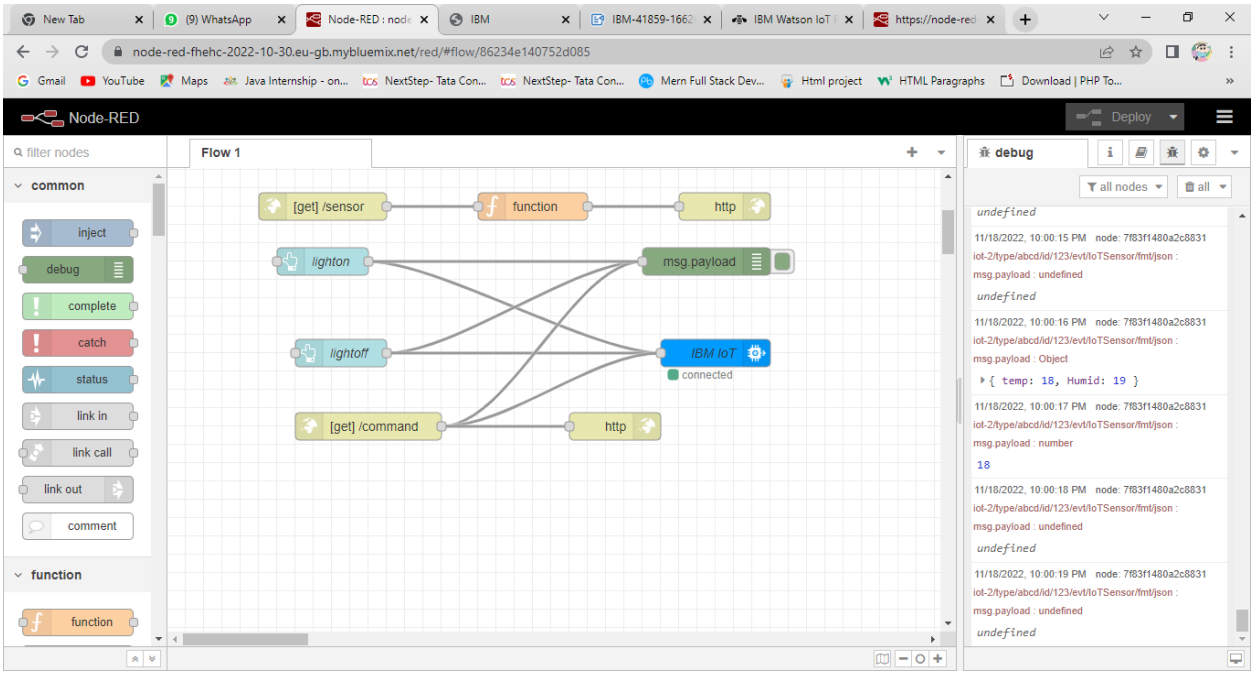
We used a function node to analysis the data recevied and assign command to each number

Java scrip code for the analyses is:

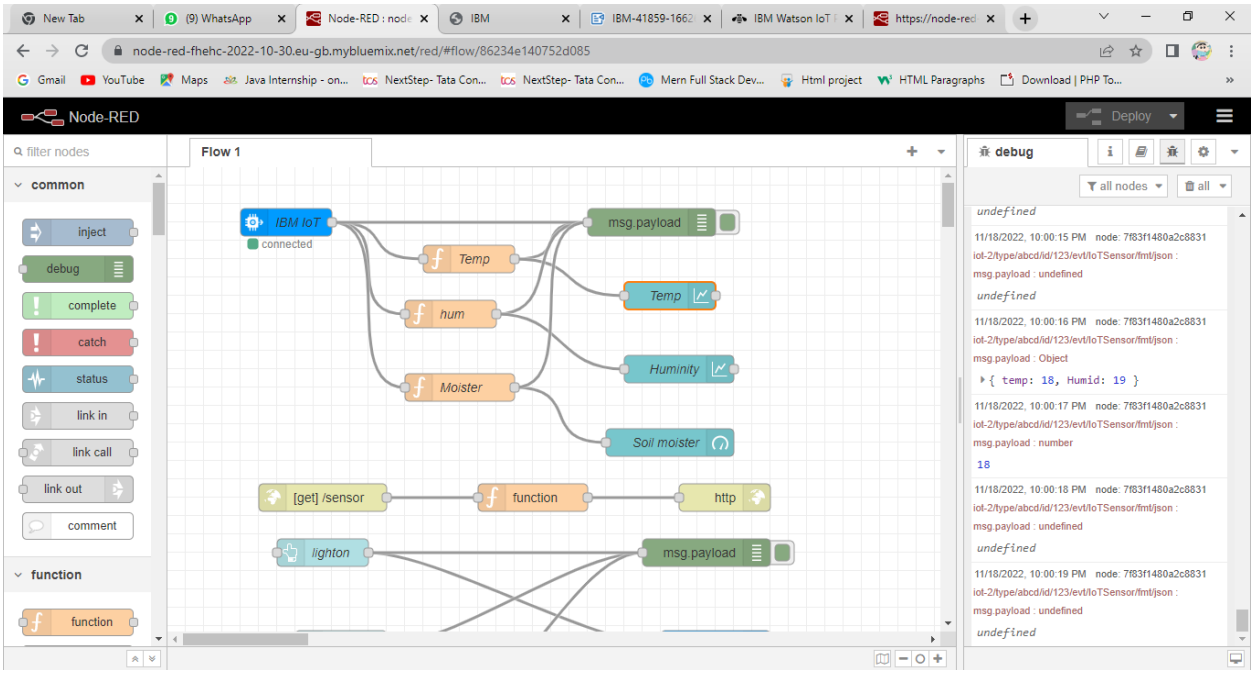
```
if(msg.payload==1)
msg.payload={"command":"ON"};
elseif(msg.payload==0)
msg.payload={"command":"OFF"};
```



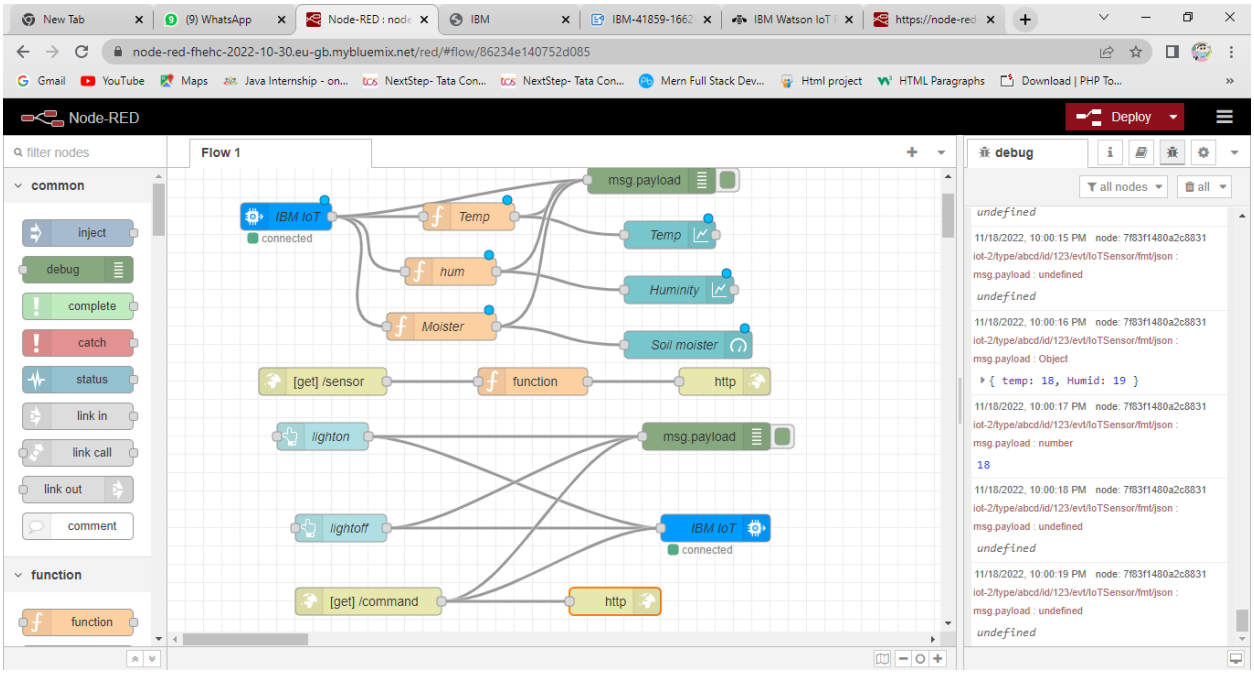

Node-RED
Deploy
Flow 1
Edit chart node
Delete
Cancel
Done
Properties
Group
[Smart Home] HALL AC
Size
auto
Label
temp
Type
Line chart
enlarge points
X-axis
last 5 minutes OR 1000 points
X-axis Label
HH:mm:ss
as UTC
Y-axis
min
max
Legend
None
Interpolate
linear
Series Colours
Enabled
debug
all nodes
IBM IoT
connected
Temp
hum
Moister
[get] /sensor
lighton
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function


Node-RED
Deploy
Flow 1
[get] /sensor
function
http
lighton
msg.payload
lightoff
IBM IoT
connected
[get] /command
http
debug
all nodes
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function

I



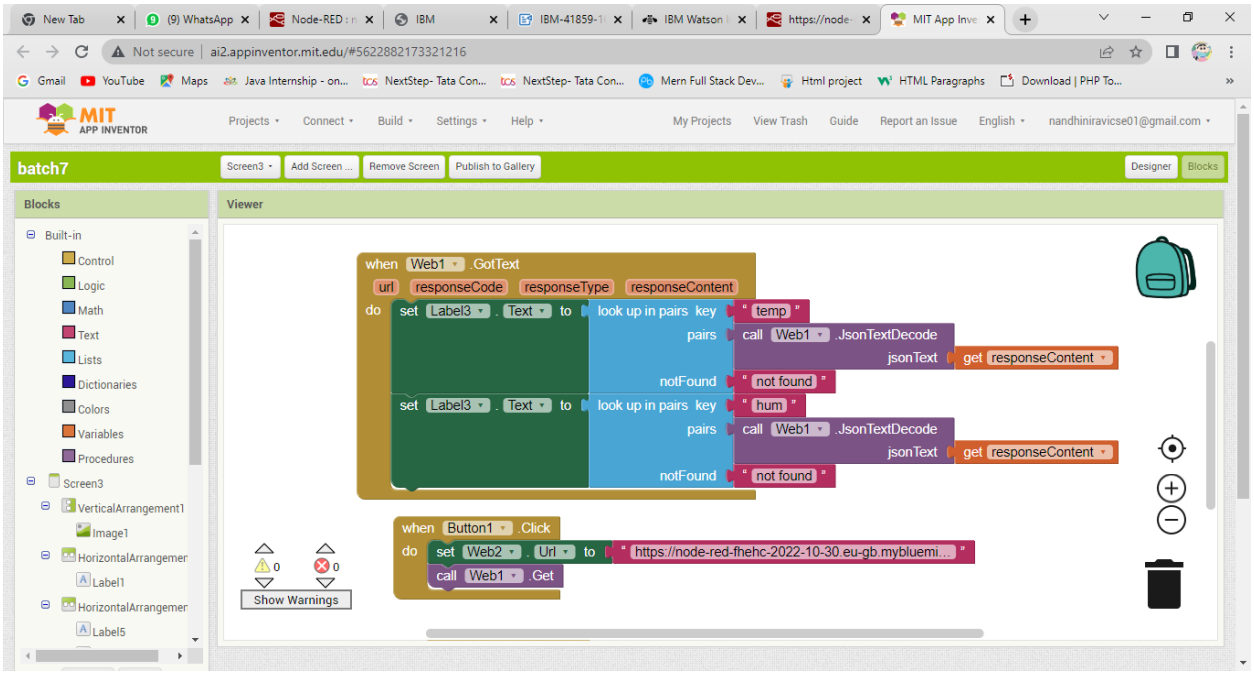
COMPLETE FLOW DIAGRAM:



MOBILE APP WEB:

I

BLOCK DIAGRAM



SCREEN 1

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SCREEN 2

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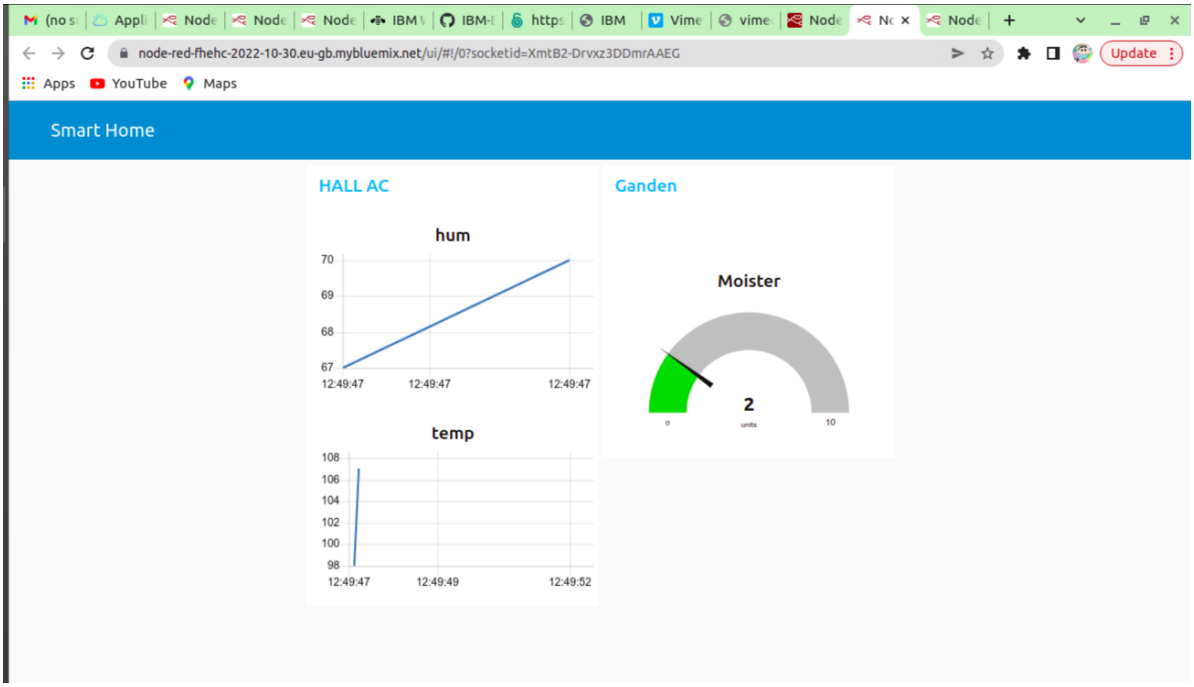
SCREEN 3


92% 8:37
Screen3
HALL AC
HUMIDITY : 90
TEMP : 86
Switch Board
Light on
Light of

OUTPUT


node-red-fhehc-2022-10-30.eu-gb.mybluemix.net/ui/#!/0?socketid=XmtB2-Drvxz3DDmrAAEG
Update
Apps
YouTube
Maps
Smart Home
HALL AC
hum
70
69
68
67
12:49:47
12:49:47
12:49:47
temp
108
106
104
102
100
98
12:49:47
12:49:49
12:49:52
Ganden
Moister
2
units
0
10