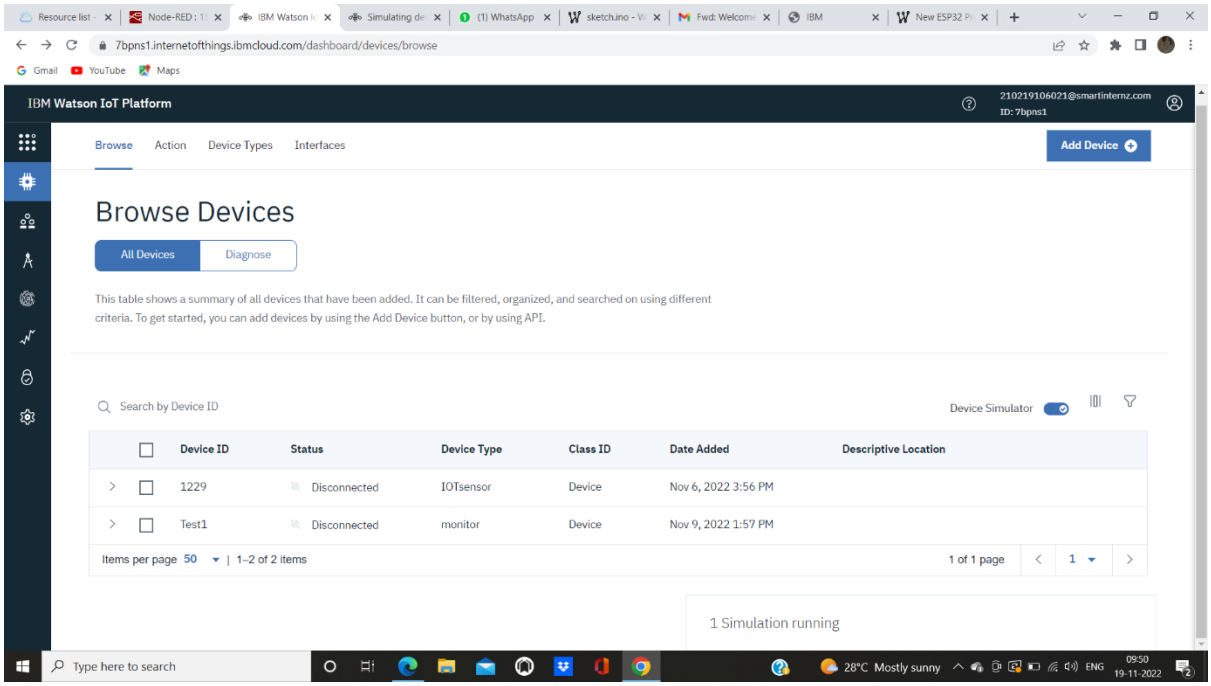
Project development phase

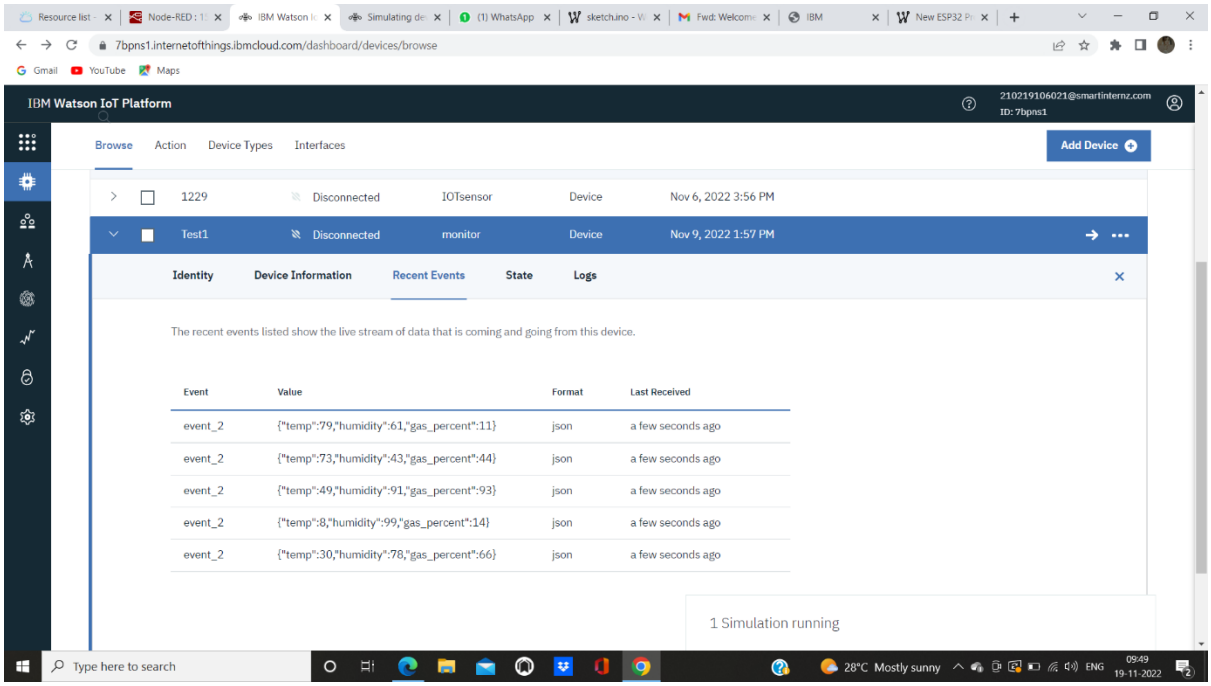
Sprint 4

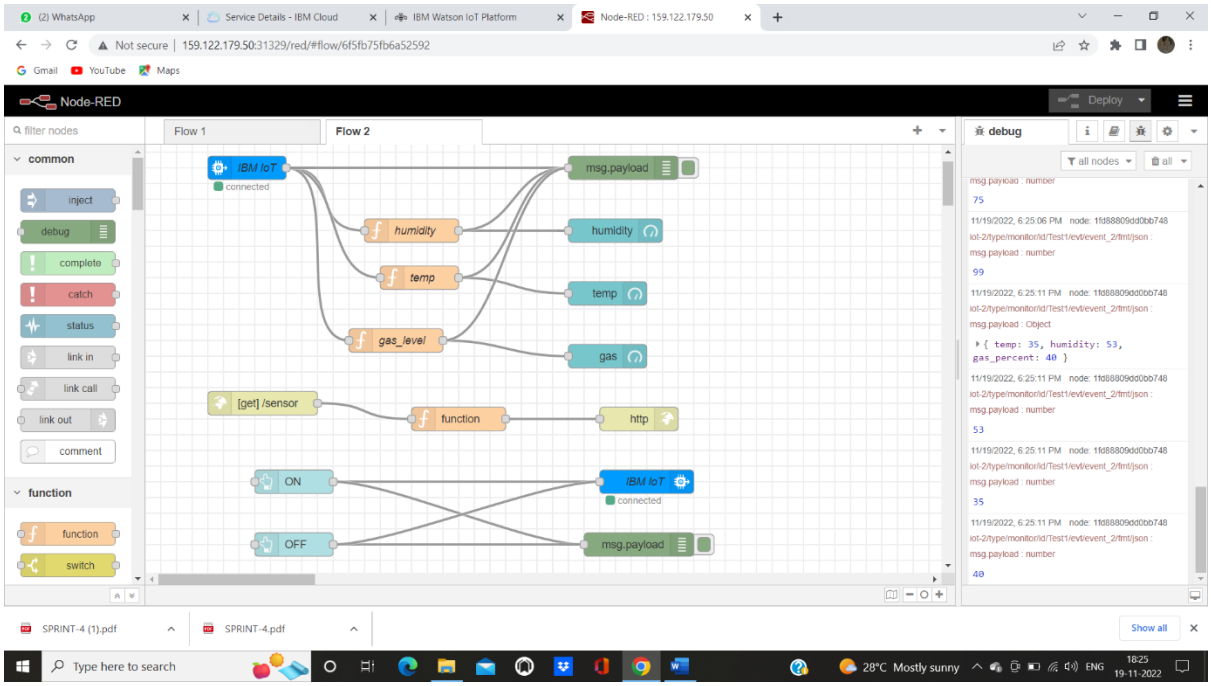
DATE	7TH NOVEMBER 2022
TEAM ID	PNT2022TMID36762
PROJECT NAME	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

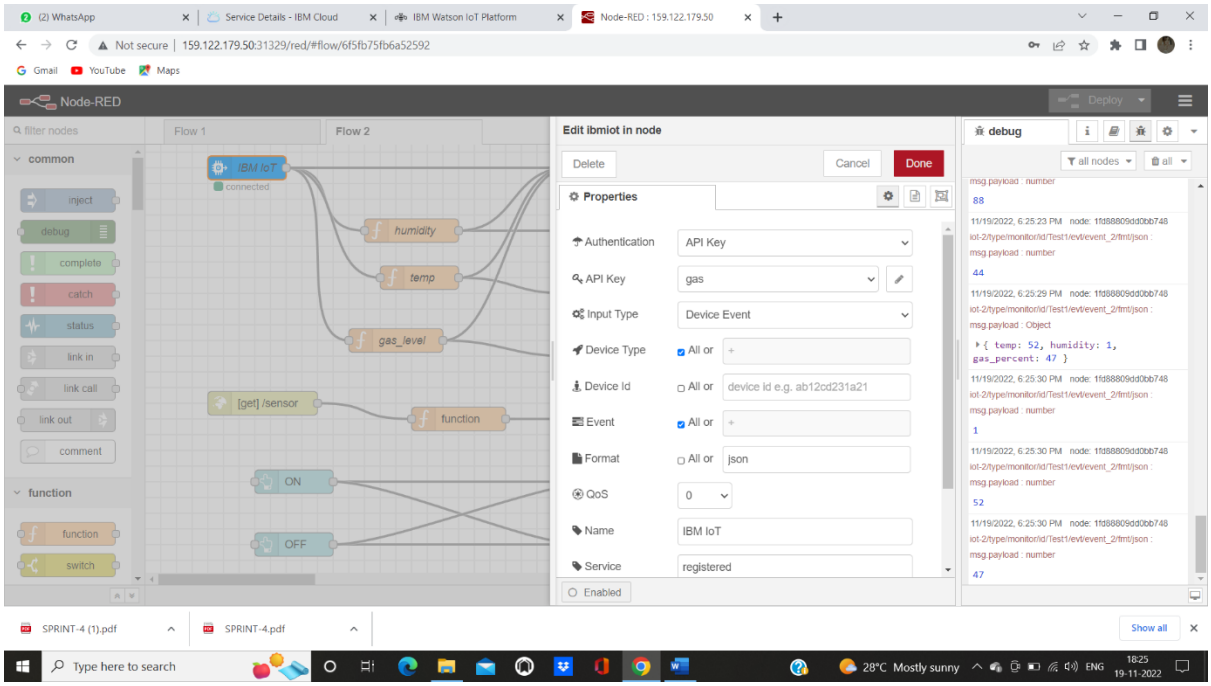
SPRINT 4:

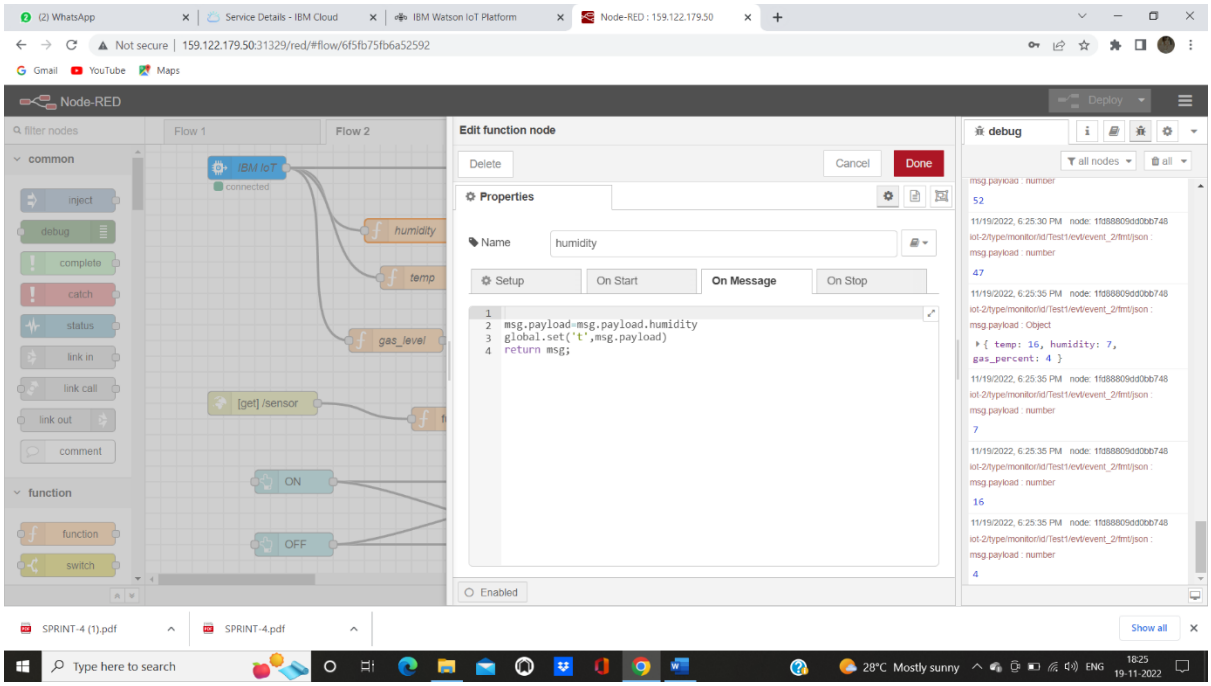
WEB UI (to make the user interact with the software)

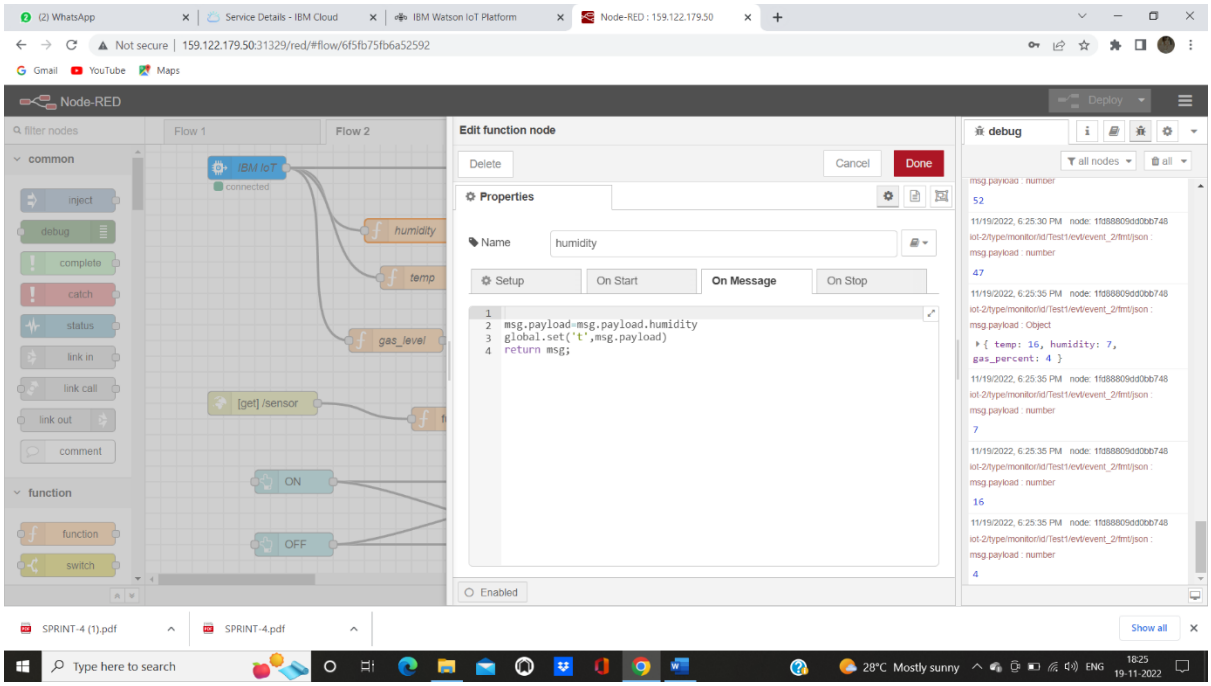


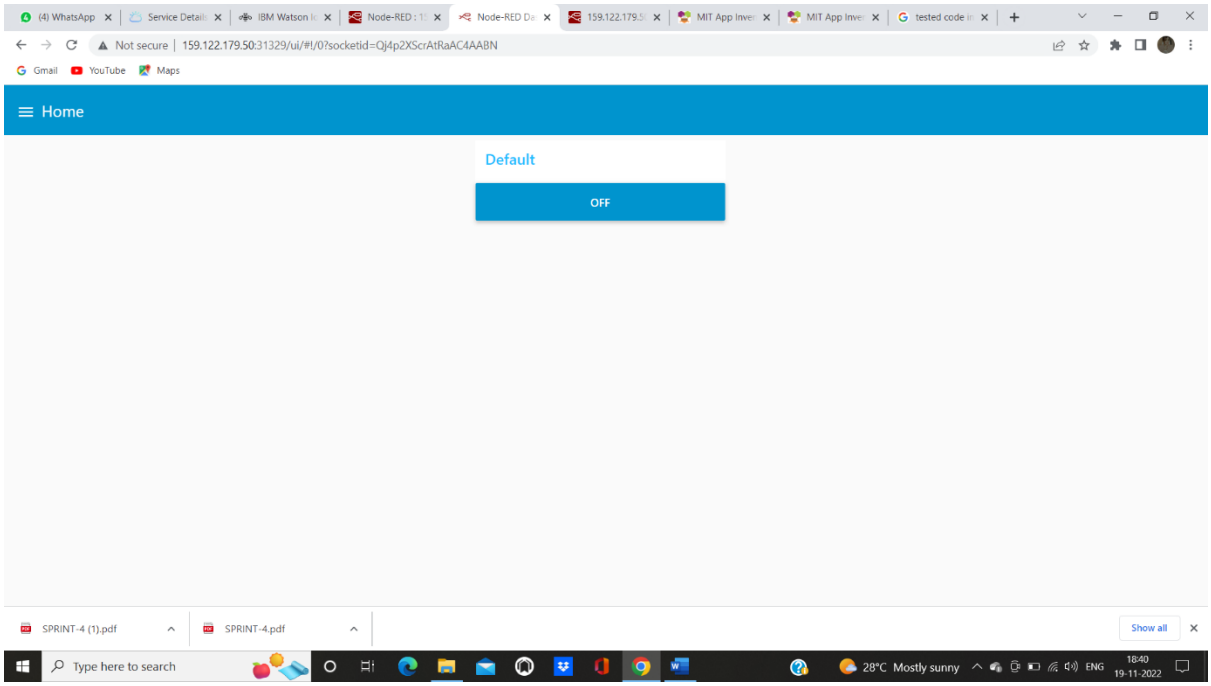

IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Add Device
1229 Disconnected IOTsensor Device Nov 6, 2022 3:56 PM
Test1 Disconnected monitor Device Nov 9, 2022 1:57 PM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event Value Format Last Received
event_2 {"temp":79,"humidity":61,"gas_percent":11} json a few seconds ago
event_2 {"temp":73,"humidity":43,"gas_percent":44} json a few seconds ago
event_2 {"temp":49,"humidity":91,"gas_percent":93} json a few seconds ago
event_2 {"temp":8,"humidity":99,"gas_percent":14} json a few seconds ago
event_2 {"temp":30,"humidity":78,"gas_percent":66} json a few seconds ago
1 Simulation running

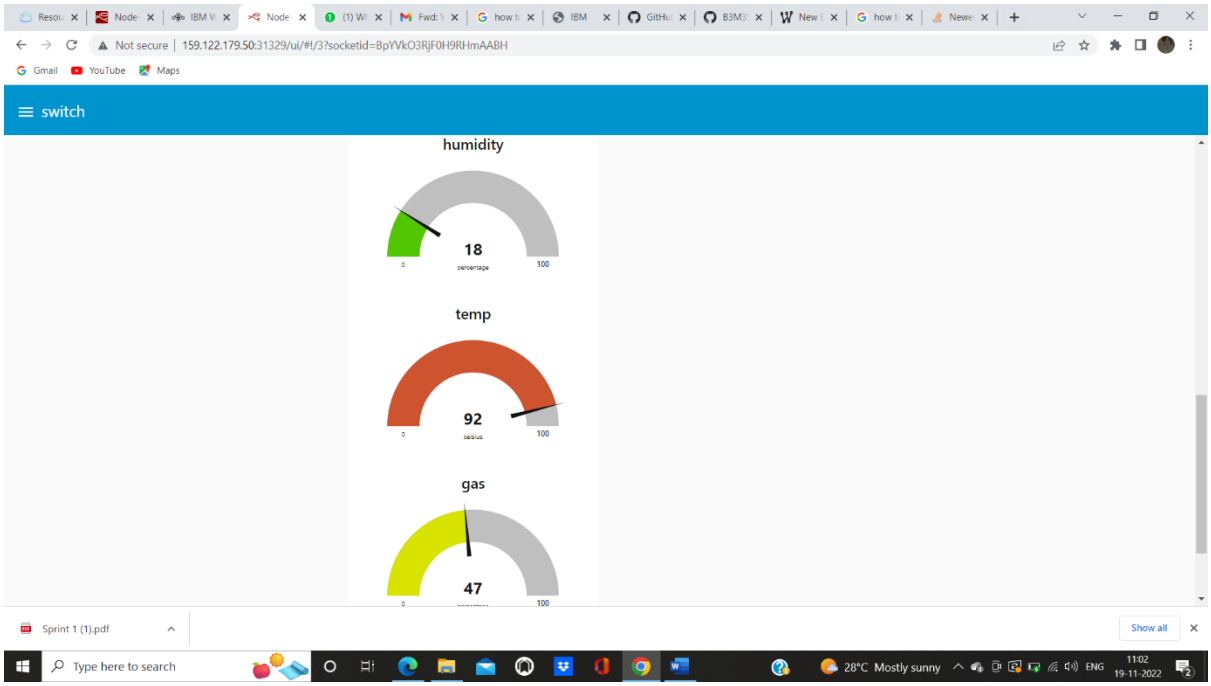

Node-RED
Deploy
Flow 1
Flow 2
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
IBM IoT
connected
humidity
temp
gas_level
msg.payload
humidity
temp
gas
[get] /sensor
function
http
ON
OFF
IBM IoT
connected
msg.payload
debug

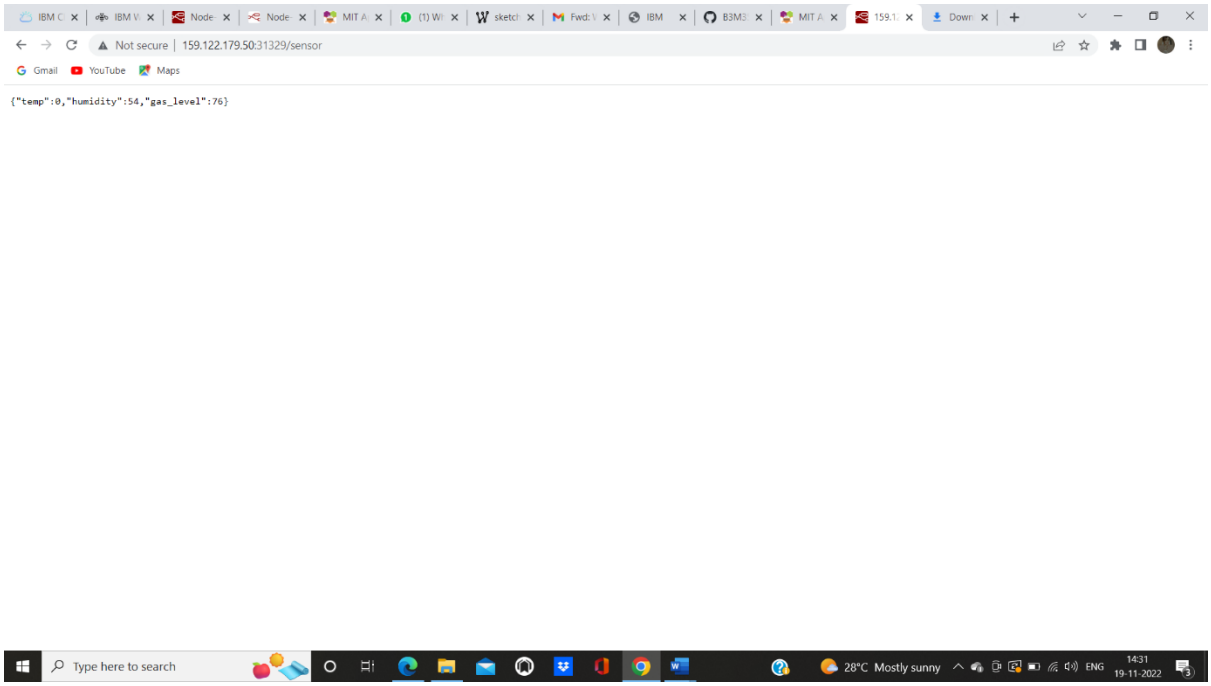

Node-RED
Edit ibmiot in node
Delete
Cancel
Done
Properties
Authentication
API Key
API Key
gas
Input Type
Device Event
Device Type
All or
Device Id
All or
device id e.g. ab12cd231a21
Event
All or
Format
All or
json
QoS
0
Name
IBM IoT
Service
registered
Enabled
debug
IBM IoT
humidity
temp
gas_level
[get] /sensor
function
ON
OFF

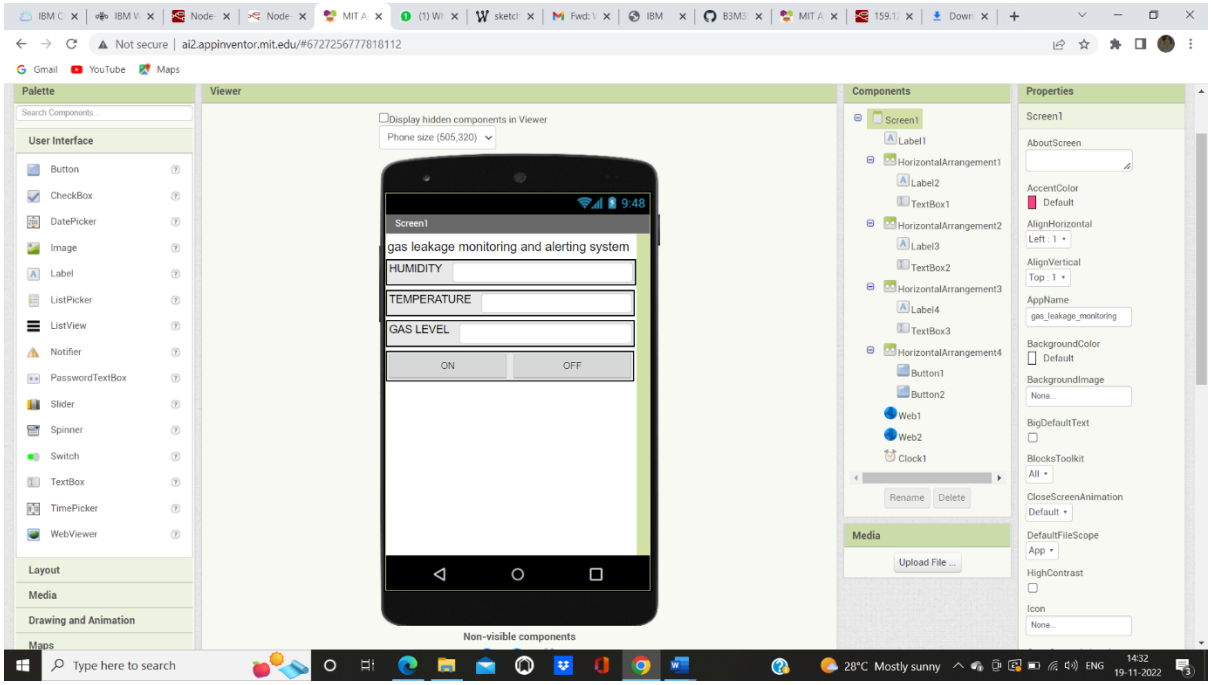

Node-RED
Edit function node
Delete
Cancel
Done
Properties
Name
humidity
Setup
On Start
On Message
On Stop
msg.payload=msg.payload.humidity
global.set('t',msg.payload)
return msg;
Enabled
debug
IBM IoT
humidity
temp
gas_level
[get] /sensor
function
ON
OFF

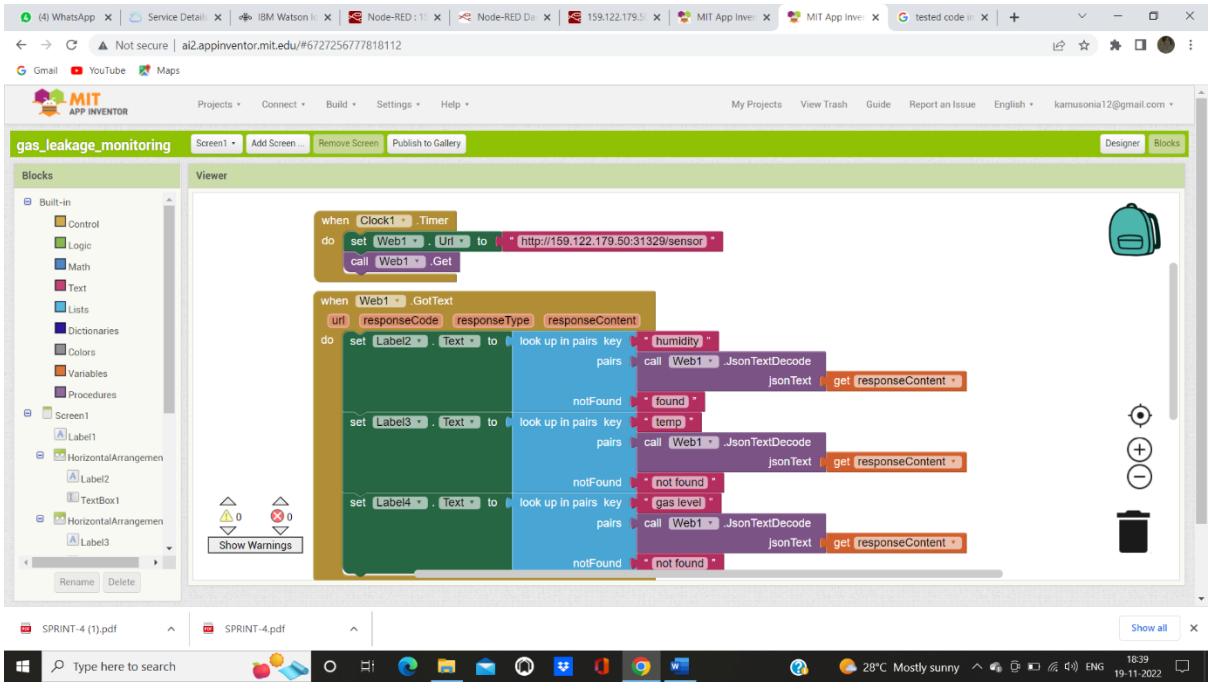

Node-RED
Edit function node
Delete
Cancel
Done
Properties
Name
humidity
Setup
On Start
On Message
On Stop
msg.payload=msg.payload.humidity
global.set('t',msg.payload)
return msg;
Enabled
debug
IBM IoT
connected
humidity
temp
gas_level
[get] /sensor
ON
OFF
common
function
inject
debug
complete
catch
status
link in
link call
link out
comment
switch
{ temp: 16, humidity: 7, gas_percent: 4 }
{ temp: 44, humidity: 36, gas_percent: 67 }
msg.payload={"temp":global.get('h'),"humidity":global.get('t'),"gas_l
return msg;

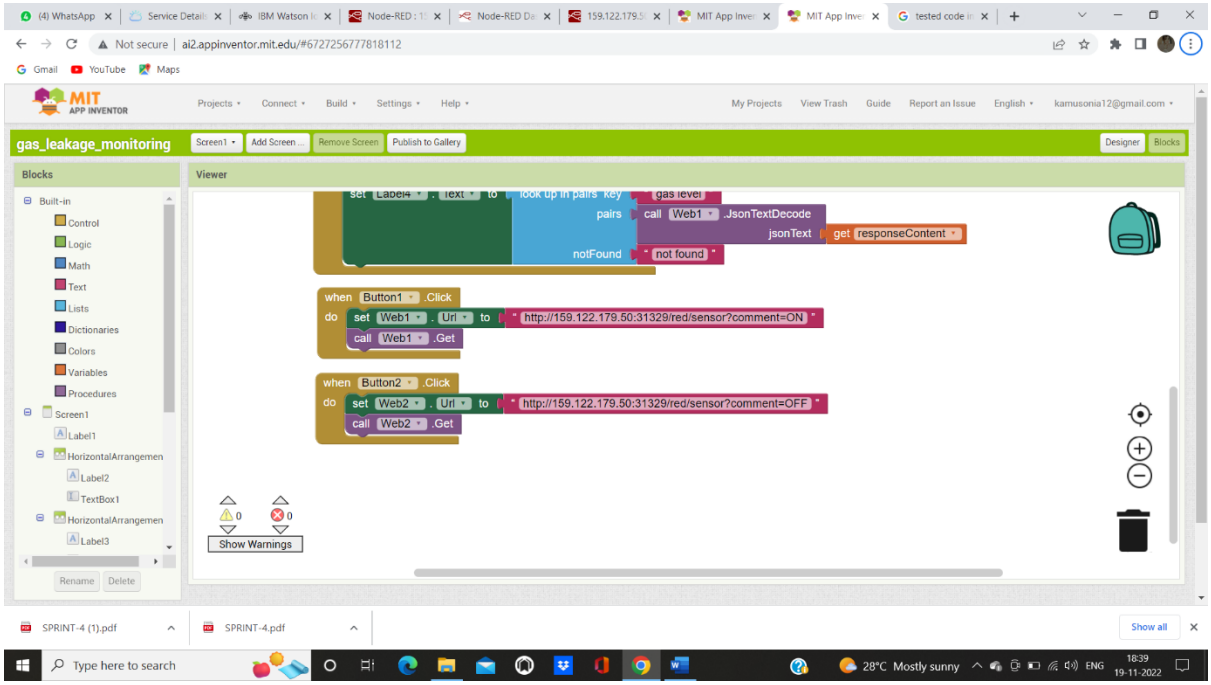

Not secure | 159.122.179.50:31329/ui/#!/0?socketid=Qj4p2XScrAtRaAC4AABN
Gmail
YouTube
Maps
Home
Default
OFF
SPRINT-4 (1).pdf
SPRINT-4.pdf
Show all
Type here to search
28°C Mostly sunny
ENG
18:40
19-11-2022

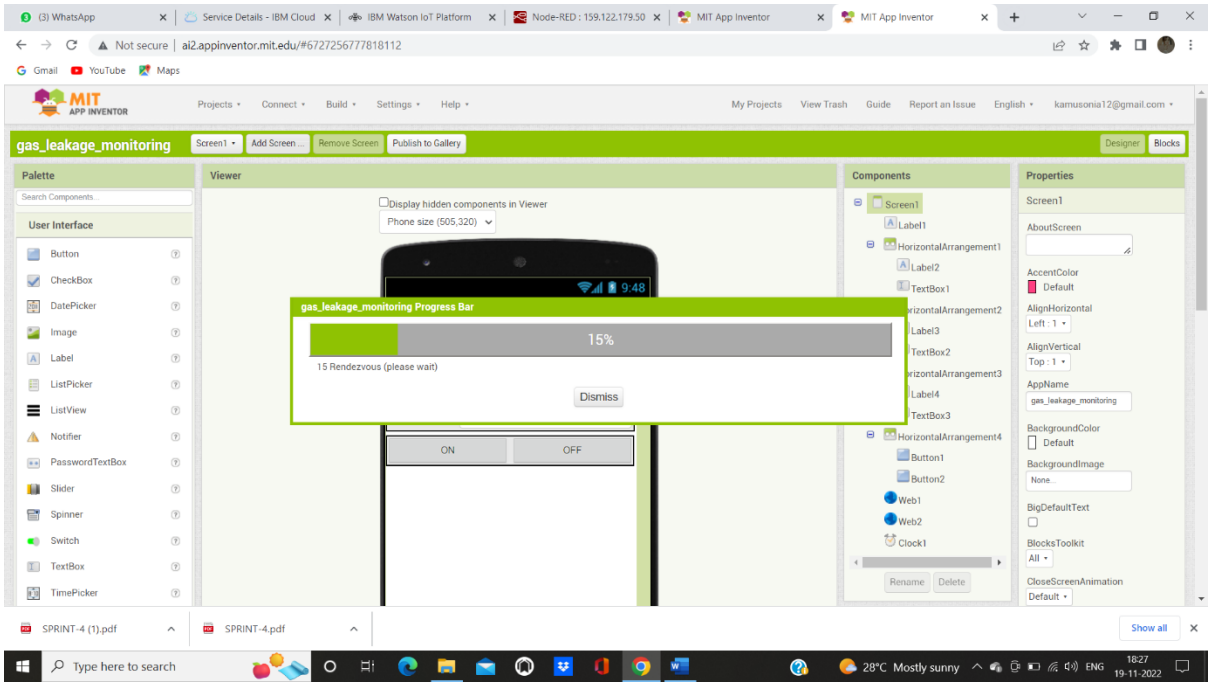

Not secure | 159.122.179.50:31329/ui/#!/3?socketid=BpYVkO3RjF0H9RHmAABH
Gmail
YouTube
Maps
switch
humidity
18
percentage
0
100
temp
92
celsius
0
100
gas
47
0
100
Sprint 1 (1).pdf
Show all
Type here to search
28°C Mostly sunny
ENG
11:02
19-11-2022

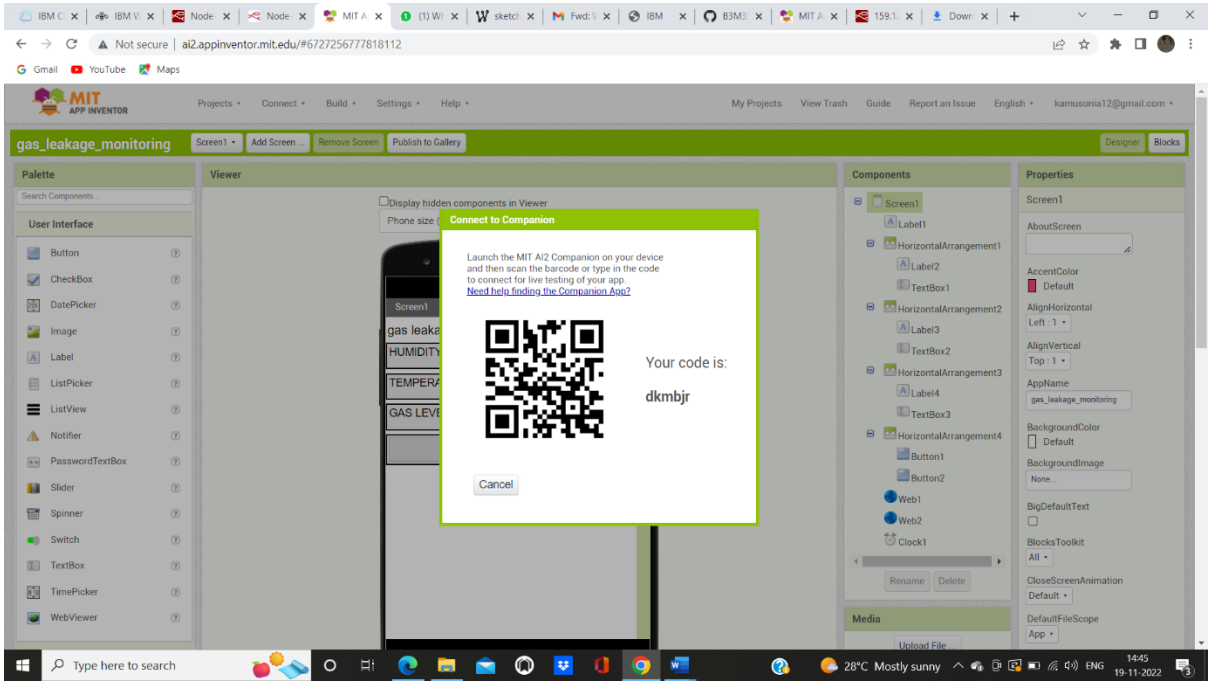

Not secure | 159.122.179.50:31329/sensor
Gmail
YouTube
Maps
{"temp":0,"humidity":54,"gas_level":76}
Type here to search
28°C Mostly sunny
ENG
14:31
19-11-2022


Not secure | ai2.appinventor.mit.edu/#6727256777818112
Gmail
YouTube
Maps
Palette
Search Components...
User Interface
Button
CheckBox
DatePicker
Image
Label
ListPicker
ListView
Notifier
PasswordTextBox
Slider
Spinner
Switch
TextBox
TimePicker
WebViewer
Layout
Media
Drawing and Animation
Maps
Viewer
Display hidden components in Viewer
Phone size (505,320)
9:48
Screen1
gas leakage monitoring and alerting system
HUMIDITY
TEMPERATURE
GAS LEVEL
ON
OFF
Non-visible components
Components
Screen1
Label1
HorizontalArrangement1
Label2
TextBox1
HorizontalArrangement2
Label3
TextBox2
HorizontalArrangement3
Label4
TextBox3
HorizontalArrangement4
Button1
Button2
Web1
Web2
Clock1
Rename
Delete
Media
Upload File ...
Properties
Screen1
AboutScreen
AccentColor
Default
AlignHorizontal
Left : 1
AlignVertical
Top : 1
AppName
gas_leakage_monitoring
BackgroundColor
Default
BackgroundImage
None...
BigDefaultText
BlocksToolkit
All
CloseScreenAnimation
Default
DefaultFileScope
App
HighContrast
Icon
None...
Type here to search
28°C Mostly sunny
ENG
14:32
19-11-2022


gas_leakage_monitoring
Blocks
Viewer
when Clock1 .Timer
do set Web1 . Url to http://159.122.179.50:31329/sensor
call Web1 .Get
when Web1 .GotText
url responseCode responseType responseContent
do set Label2 . Text to look up in pairs key humidity
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound found
set Label3 . Text to look up in pairs key temp
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound not found
set Label4 . Text to look up in pairs key gas level
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound not found
Show Warnings


gas_leakage_monitoring
Blocks
Viewer
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound not found
when Button1 .Click
do set Web1 . Url to http://159.122.179.50:31329/red/sensor?comment=ON
call Web1 .Get
when Button2 .Click
do set Web2 . Url to http://159.122.179.50:31329/red/sensor?comment=OFF
call Web2 .Get
Show Warnings


gas_leakage_monitoring
Screen1
Add Screen...
Remove Screen
Publish to Gallery
Designer
Blocks
Palette
Viewer
Components
Properties
gas_leakage_monitoring Progress Bar
15%
15 Rendezvous (please wait)
Dismiss
ON
OFF


gas_leakage_monitoring
Screen1
Add Screen...
Remove Screen
Publish to Gallery
Designer
Blocks
Palette
Viewer
Components
Properties
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:
dkmbjr
Cancel