SMART EMPLOYEE TRACKING SYSTEM

INTRODUCTION:

Employee tracking system monitored and tracks company employee's using android technology. • The application which developed for employee tracking is called as "Mitter-bitter". • The manager can track Employees all day to day activities like SMS, call logs, data usage, web browser history, unauthorized calls. It also tracks the current location of the Employee
Tracking system is a window based web application. A simple but one of the most promising applications that will work as a interface batween the user & Admin.
Effective management and technical support are required for the sucess of large scale projects. Many tasks must still be performed by human being, including plan generation, construction of activity networks, and project monitoring. These prject monitoring apabilities are realized using diagnostic and dealing heuristics.

LITERATURE SURVEY

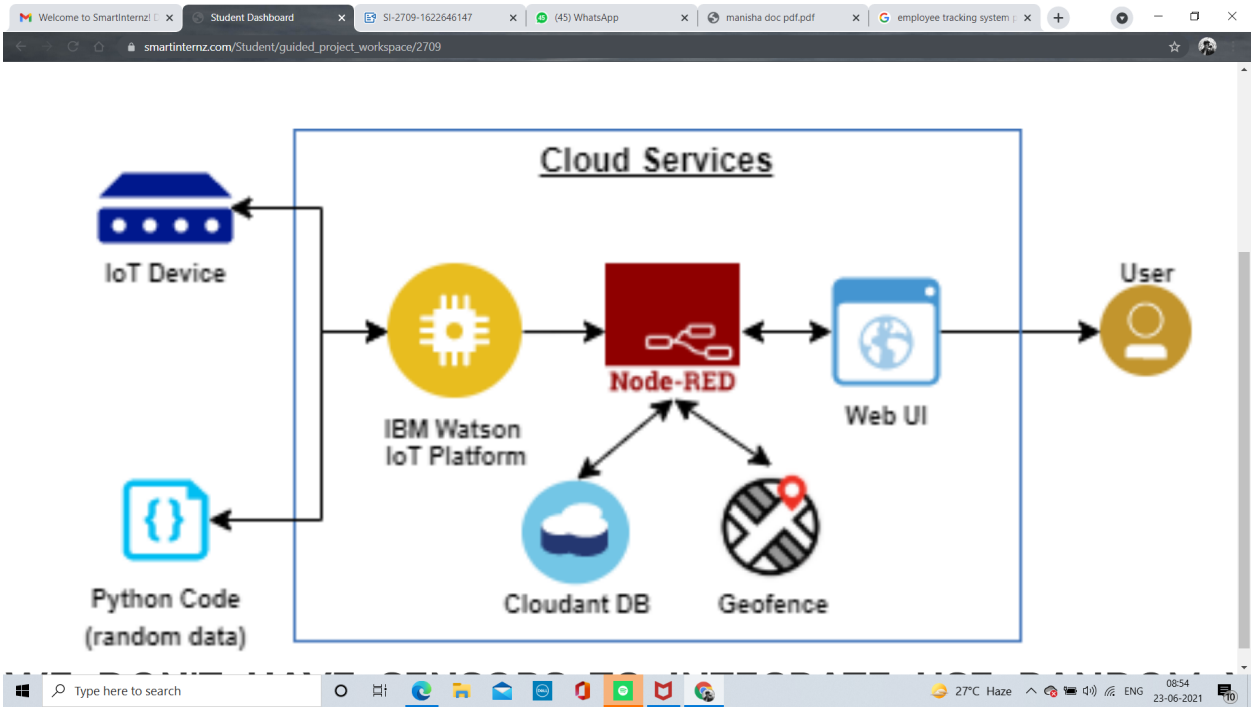
Existing Problems:

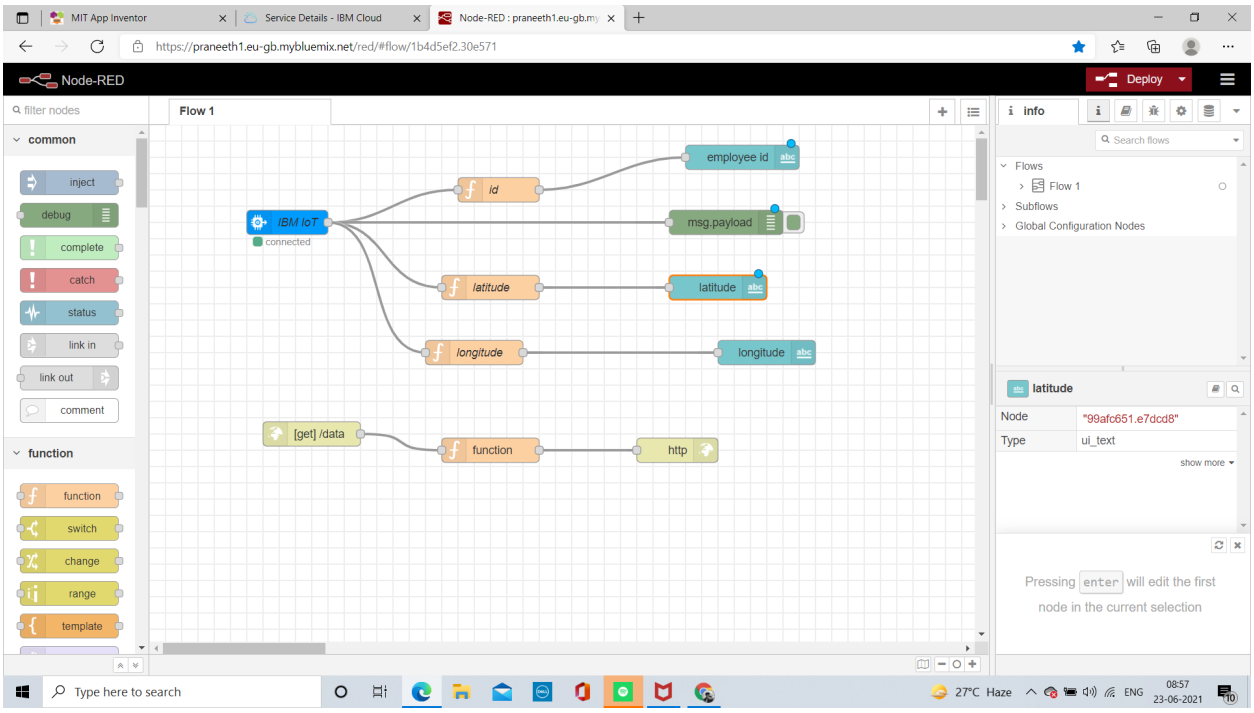
IoT has enabled smart manufacturing that increases safety, improves performance and services as well as reduces time and cost. It has been a driving force behind the industry movement. Efficient data collection, enhanced automation, and analytics are all possible with the help of IoT. With a large variety of IoT devices, manufacturing units are able to leverage their workflow more efficiently and accurately. For example, companies are tracking assets, collecting data, and performing analytics using IoT sensors placed in equipment and devices. These sensors monitor the functioning of equipment to allow

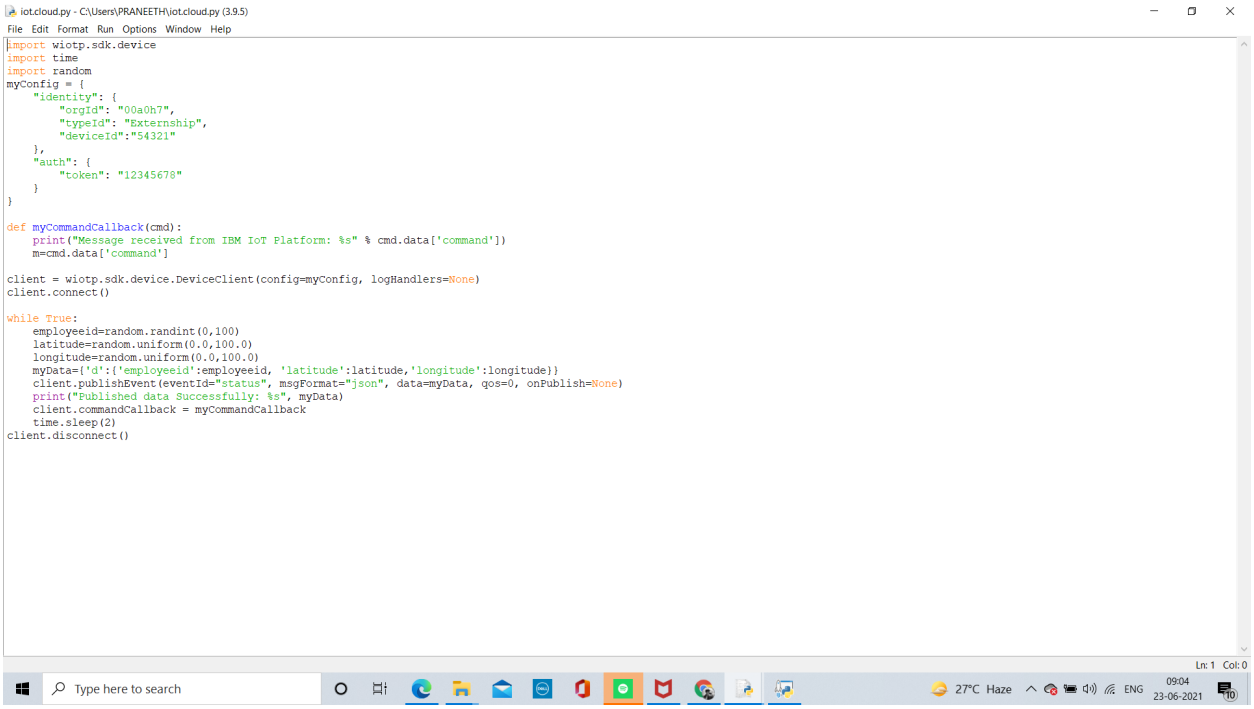
automated recovery and to shorten downtime in maintenance. According to statistics by The Atlantic, it is expected that the investment in IoT solutions. Many other statistical reports are indicating that IoT technology has a huge potential for manufacturing and that the manufacturing industry has been the sector most impacted by IoT in the last few years

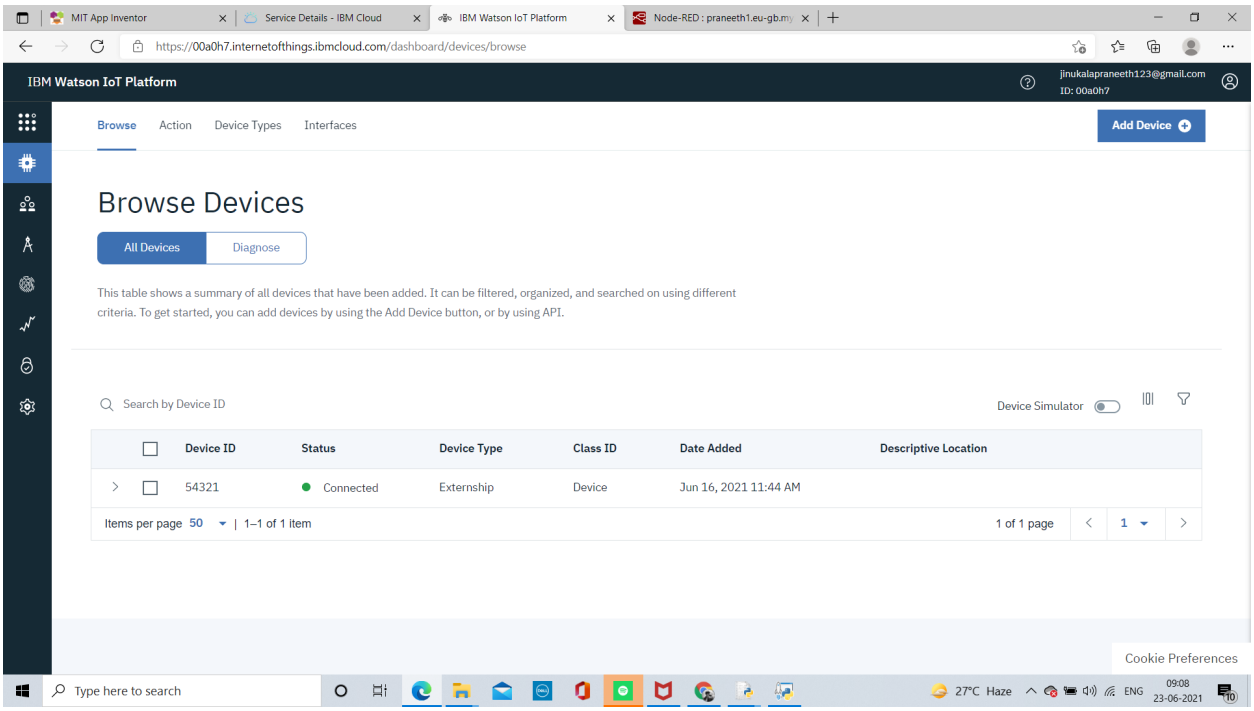
Theoritical Analysis :

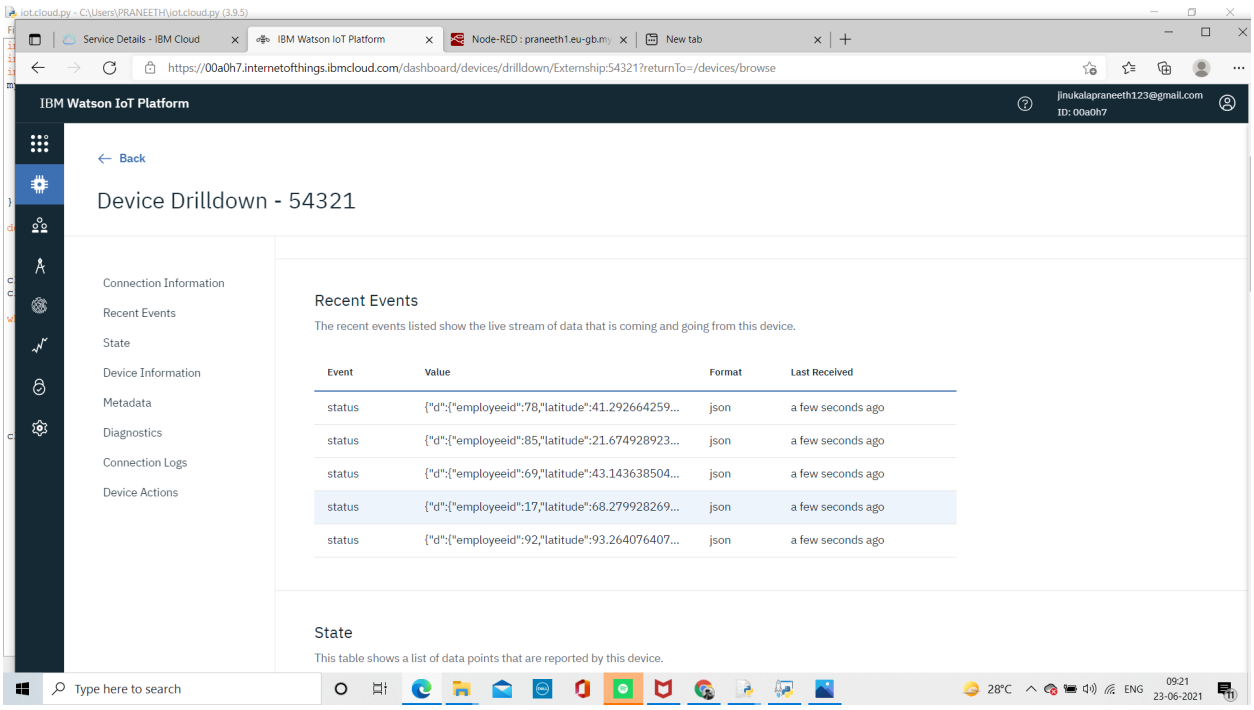
Block diagram:

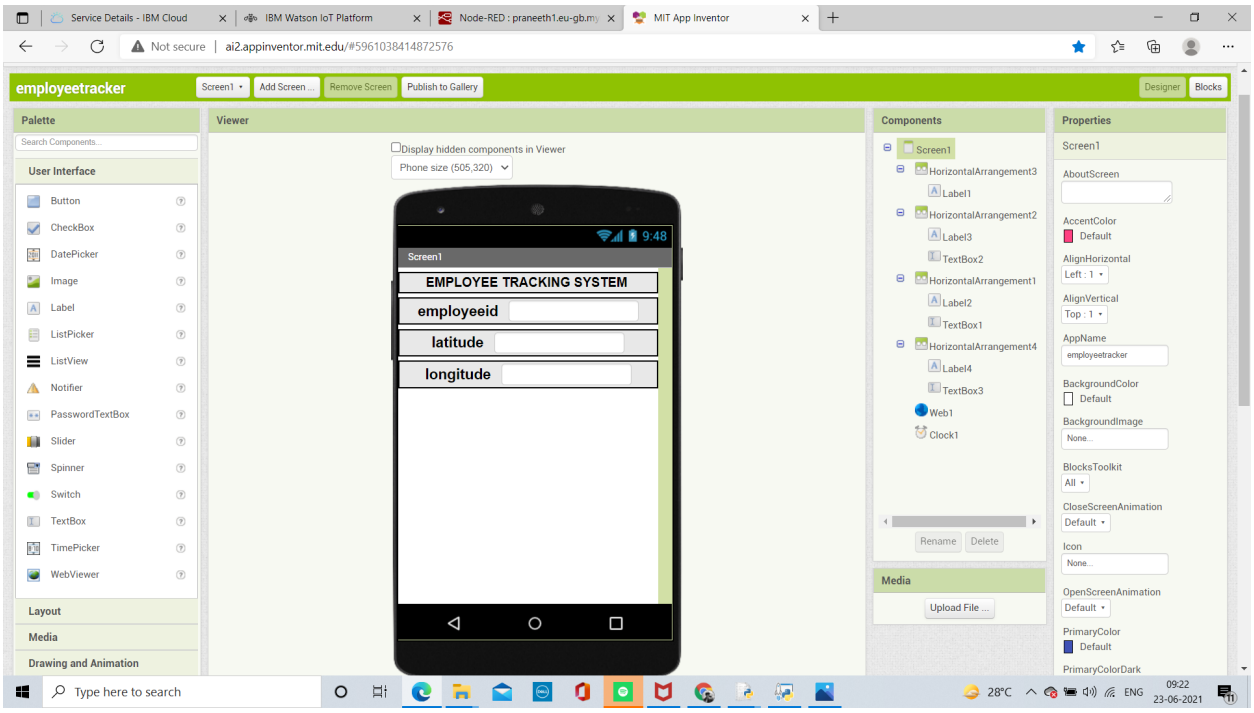


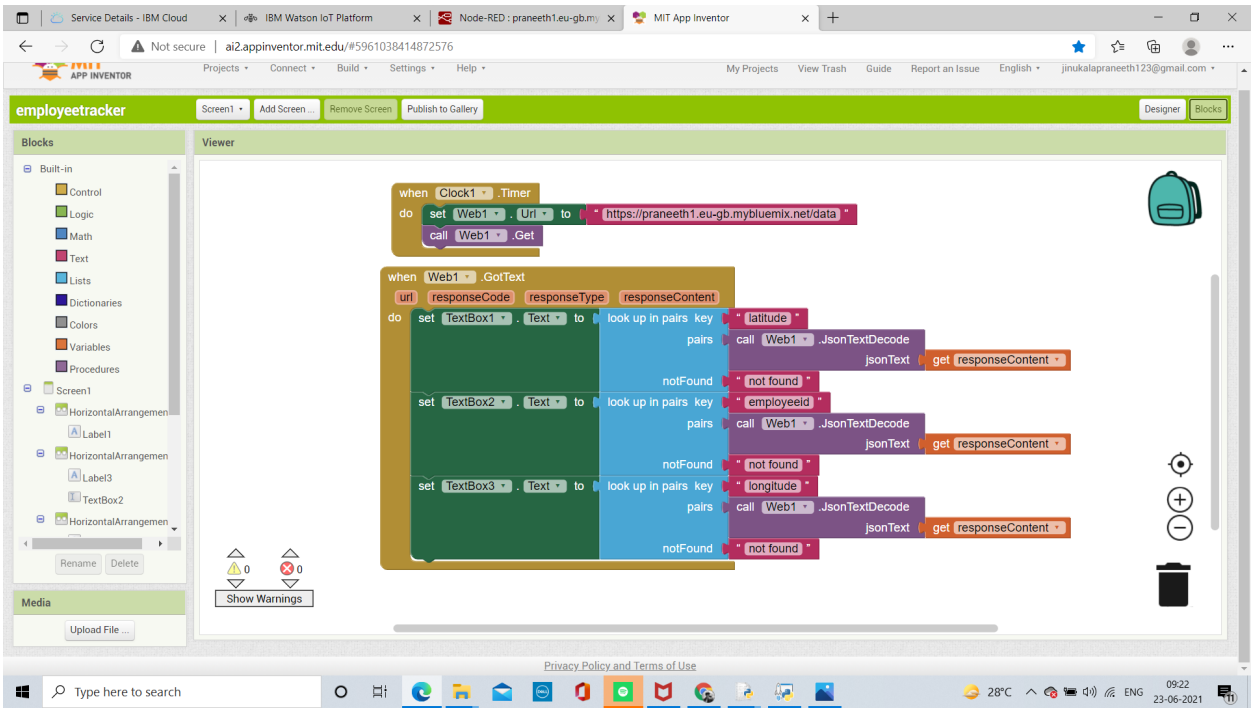

MIT App Inventor
Service Details - IBM Cloud
Node-RED : praneeth1.eu-gb.my
https://praneeth1.eu-gb.mybluemix.net/red/#flow/1b4d5ef2.30e571
Node-RED
Deploy
filter nodes
Flow 1
common
inject
debug
complete
catch
status
link in
link out
comment
function
function
switch
change
range
template
IBM IoT
connected
id
latitude
longitude
[get] /data
function
http
employee id
msg.payload
latitude
longitude
info
Search flows
Flows
Flow 1
Subflows
Global Configuration Nodes
latitude
Node
"99afc651.e7dcd8"
Type
ui_text
show more
Pressing enter will edit the first node in the current selection
Type here to search
27°C Haze
ENG
08:57
23-06-2021

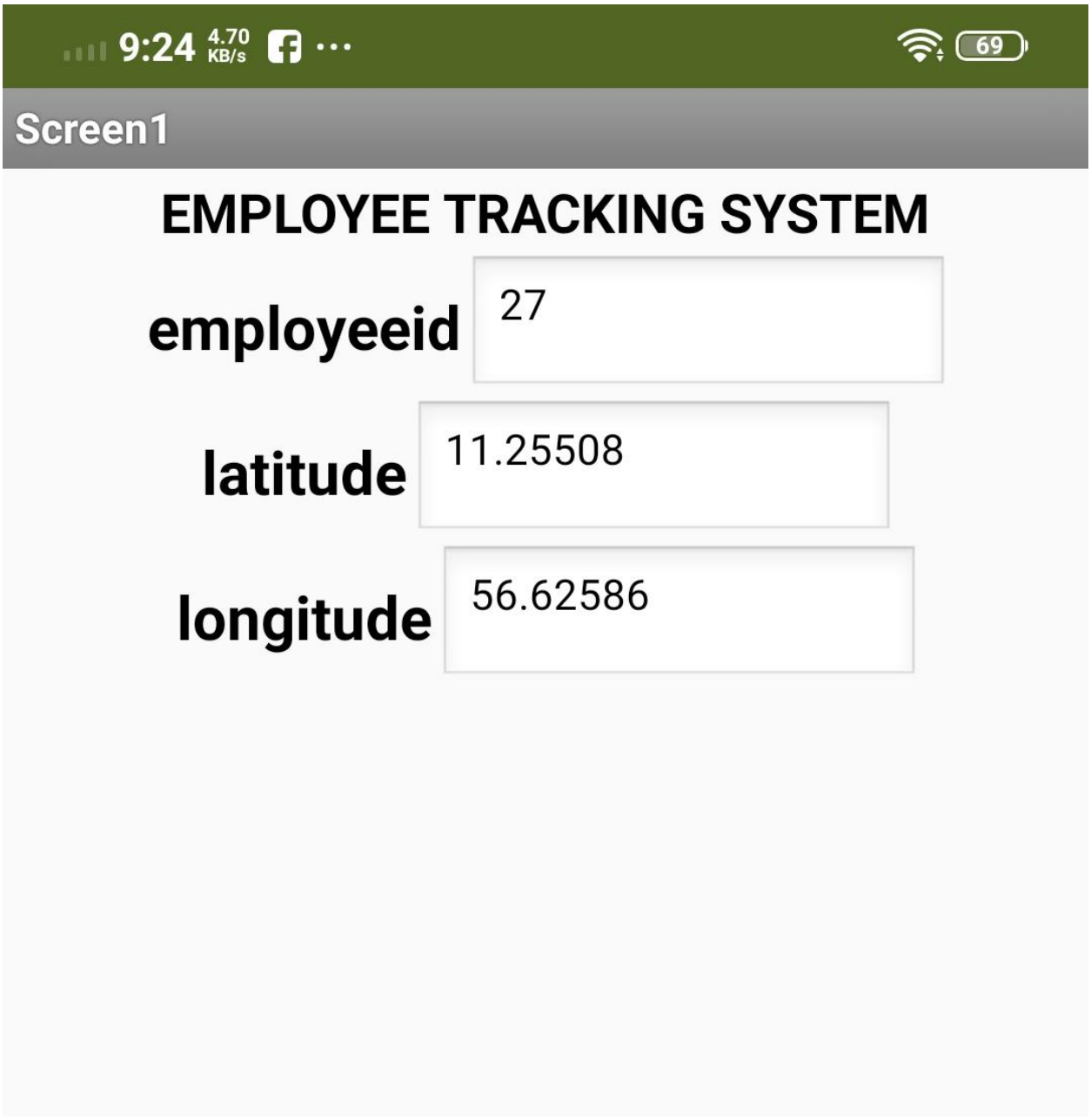

iot.cloud.py - C:\Users\PRANEETH\iot.cloud.py (3.9.5)
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": {
"orgId": "00a0h7",
"typeId": "Externship",
"deviceId":"54321"
},
"auth": {
"token": "12345678"
}
}
def myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
employeeid=random.randint(0,100)
latitude=random.uniform(0.0,100.0)
longitude=random.uniform(0.0,100.0)
myData={'d':{'employeeid':employeeid, 'latitude':latitude,'longitude':longitude}}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: %s", myData)
client.commandCallback = myCommandCallback
time.sleep(2)
client.disconnect()
Ln: 1 Col: 0
Type here to search
27°C Haze
ENG
09:04
23-06-2021


MIT App Inventor
Service Details - IBM Cloud
IBM Watson IoT Platform
Node-RED : praneeth1.eu-gb.my
https://00a0h7.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
jinukalapraneeth123@gmail.com
ID: 00a0h7
Browse
Action
Device Types
Interfaces
Add Device
Browse Devices
All Devices
Diagnose
This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
54321
Connected
Externship
Device
Jun 16, 2021 11:44 AM
Items per page 50
1–1 of 1 item
1 of 1 page
Cookie Preferences
Type here to search
27°C Haze
ENG
09:08
23-06-2021


iot.cloud.py - C:\Users\PRANEETH\iot.cloud.py (3.9.5)
Service Details - IBM Cloud
IBM Watson IoT Platform
Node-RED : praneeth1.eu-gb.my
New tab
https://00a0h7.internetofthings.ibmcloud.com/dashboard/devices/drilldown/Externship:54321?returnTo=/devices/browse
IBM Watson IoT Platform
jinukalapraneeth123@gmail.com
ID: 00a0h7
Back
Device Drilldown - 54321
Connection Information
Recent Events
State
Device Information
Metadata
Diagnostics
Connection Logs
Device Actions
Recent Events
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
status
{"d":{"employeeid":78,"latitude":41.292664259...
json
a few seconds ago
status
{"d":{"employeeid":85,"latitude":21.674928923...
json
a few seconds ago
status
{"d":{"employeeid":69,"latitude":43.143638504...
json
a few seconds ago
status
{"d":{"employeeid":17,"latitude":68.279928269...
json
a few seconds ago
status
{"d":{"employeeid":92,"latitude":93.264076407...
json
a few seconds ago
State
This table shows a list of data points that are reported by this device.
Type here to search
28°C
ENG
09:21
23-06-2021


Service Details - IBM Cloud
IBM Watson IoT Platform
Node-RED : praneeth1.eu-gb.my
MIT App Inventor
Not secure | ai2.appinventor.mit.edu/#5961038414872576
employeetracker
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
Media
Drawing and Animation
Viewer
Display hidden components in Viewer
Phone size (505,320)
9:48
Screen1
EMPLOYEE TRACKING SYSTEM
employeeid
latitude
longitude
Components
Screen1
HorizontalArrangement3
Label1
HorizontalArrangement2
Label3
TextBox2
HorizontalArrangement1
Label2
TextBox1
HorizontalArrangement4
Label4
TextBox3
Web1
Clock1
Rename
Delete
Media
Upload File ...
Properties
Screen1
AboutScreen
AccentColor
Default
AlignHorizontal
Left : 1
AlignVertical
Top : 1
AppName
employeetracker
BackgroundColor
Default
BackgroundImage
None...
BlocksToolkit
All
CloseScreenAnimation
Default
Icon
None...
OpenScreenAnimation
Default
PrimaryColor
Default
PrimaryColorDark
Type here to search
28°C
ENG
09:22
23-06-2021


Service Details - IBM Cloud
IBM Watson IoT Platform
Node-RED : praneeth1.eu-gb.my
MIT App Inventor
Not secure | ai2.appinventor.mit.edu/#5961038414872576
APP INVENTOR
Projects
Connect
Build
Settings
Help
My Projects
View Trash
Guide
Report an Issue
English
jinukalapraneeth123@gmail.com
employeetracker
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
HorizontalArrangemen
Label1
HorizontalArrangemen
Label3
TextBox2
HorizontalArrangemen
Rename
Delete
Media
Upload File ...
Viewer
when Clock1 .Timer
do set Web1 . Url to " https://praneeth1.eu-gb.mybluemix.net/data "
call Web1 .Get
when Web1 .GotText
url responseCode responseType responseContent
do set TextBox1 . Text to look up in pairs key " latitude "
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound " not found "
set TextBox2 . Text to look up in pairs key " employeeid "
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound " not found "
set TextBox3 . Text to look up in pairs key " longitude "
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound " not found "
0
0
Show Warnings
Privacy Policy and Terms of Use
Type here to search
28°C
ENG
09:22
23-06-2021


9:24 4.70 KB/s
69
Screen1
EMPLOYEE TRACKING SYSTEM
employeeid
27
latitude
11.25508
longitude
56.62586