# SMART EMPLOYEE TRACKING SYSTEM

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## INTRODUCTION

### **Overview**

In this Project we are creating a Smart Employee Tracking system using MIT App Inventor.

## **Purpose**

This app will help track the location of the employee and provide the details to the admin in real time.

## LITERATURE SURVEY

## **EXISTING PROBLEM**

It is very difficult to keep track on every employee individually in a company

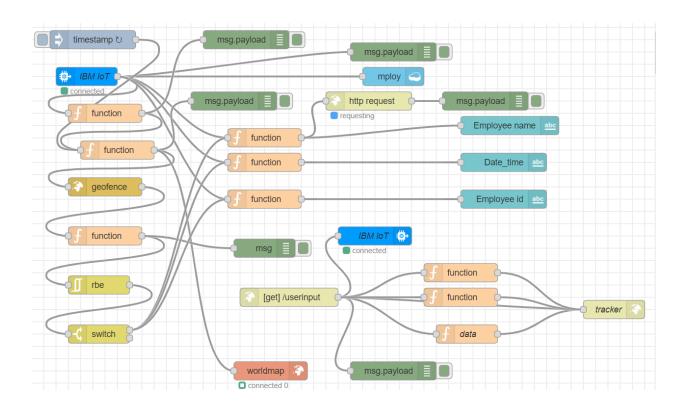
### **PROPOSED SOLUTION**

• Employees are provided with a device that contains a beacon broadcaster with their unique ID.

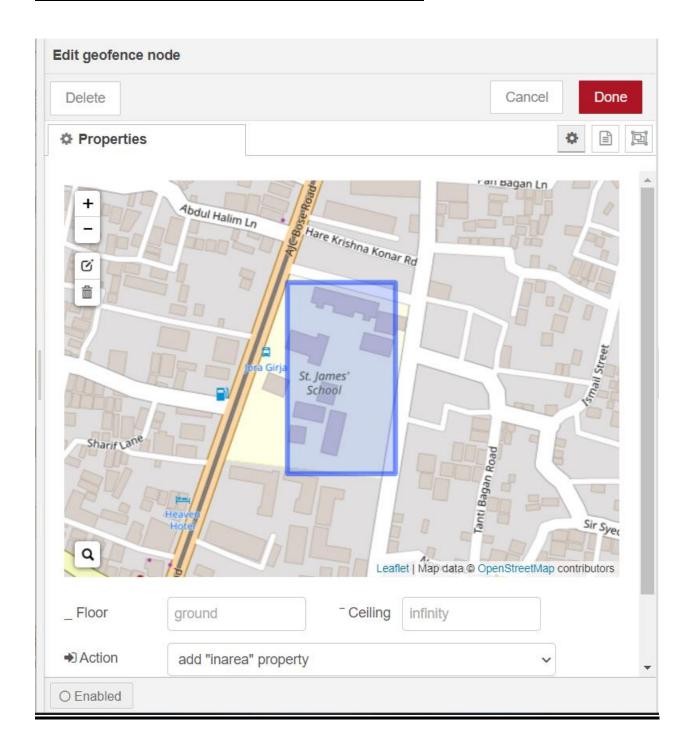
- The scanner at each room of the workplace scans for the available beacon broadcasters and gets the Employee Id from it.
- The location of each employee with their ID and time is updated to the cloud and stored in the database.
- There will be a provision for Admin to track the location of every employee at a particular zone in the Web app.

## THEORETICAL ANALYSIS

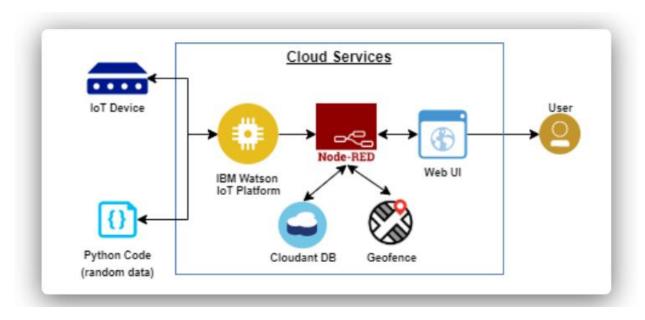
### **BLOCK DIAGRAM**



## **EXPERIMENTAL INVESTIGATIONS**



## FLOW CHART



## **RESULT**

```
8/3/2021, 11:44:10 AM node: 833aad7f.04dd3
msg.payload : Object
▶{ name: "Gulshan", lat: 22.5555,
lon: 88.3654 }
8/3/2021, 11:44:10 AM node: d02bfd6a.e3e0e
msg : Object
▶ { payload: false, topic: "",
 _msgid: "a45c7692.c77ae8", location:
object }
8/3/2021, 11:44:15 AM node: 833aad7f.04dd3
msg.payload : Object
▶{ name: "Gulshan", lat: 22.5555,
lon: 88.3654 }
8/3/2021, 11:44:15 AM node: d02bfd6a.e3e0e
msg : Object
▶ { _msgid: "8d405b3c.759938",
payload: true, topic: "", location:
object }
```

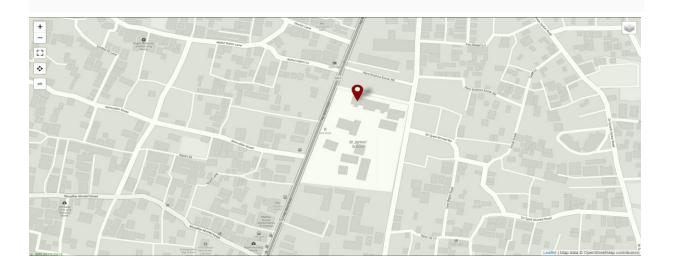
#### **≡** EMPLYOEE

#### employeee

Employee id **8679** 

Date\_time 2021-08-03 11:38:01

Employee name Gulshan



```
mploy > 53a8d9ab7f08d5f50e6d8dd68a04c098
                                                                                                                                                                         {}JSON

    ✓ Save Changes Cancel

        Outpload Attachment
        C Clone Document
        □ Delete

        " id": "53a8d9ab7f08d5f50e6d8dd68a04c098",
       " rev": "1-a121f57e48fa389fd01cf3e37c360a52".
       "topic": "iot-2/type/vitdevice/id/8335/evt/status/fmt/json",
         "names": "Gulshan",
       "id": "8679",
       "lat": 22.5555.
       "lon": 88.3654,
       "Date_Time": "2021-08-03 11:38:01"
       "deviceId": "8335",
       "deviceType": "vitdevice",
      "eventType": "status",
      "format": "json"
```

## **ADVANTAGES**

- It addresses attendance issues
- Controlling unethical behaviour
- Improve strength and productivity

## **DISADVANTAGES**

- Location can be inaccurate sometimes
- Employees might feel offended as they might feel they are spied upon
- Monitoring might consume time for accurate analysis
- Human intervention as data can be compromised in not secured properly

## **APPLICATION**

- Employee Tracking and Monitoring Software helps employers in a variety of manners. You can keep track of every working and non-working activity related to your business.
- It ensures no illegal action, increasing your business productivity, keeping track of your budget, and increasing your company's cost.

## **CONCLUSION**

Employee tracking systems have their set of drawbacks, but these are not serious enough to outweigh the positives. With further technological advancements, these flaws would surely be overcome, helping businesses with even more effective data.

## **FUTURE SCOPE**

- It can be used to track down the attendance and working hours of employee of a company.
- It cancels the ambiguity in above set issue without human intervention.

## **BIBLIOGRAPHY**

- IBM CLOUD
- NODERED
- PYTHON