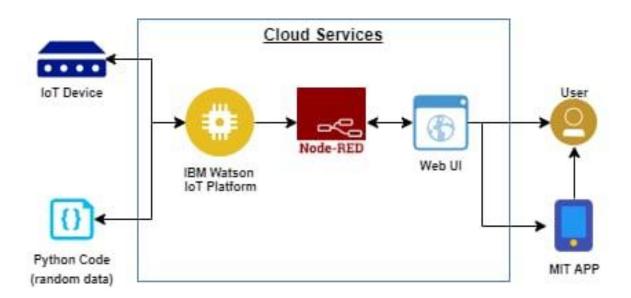
# 1. Theoretical Analysis:

### 1.1 block diagram:



# 1.2Hardware/Software Designing

## **Software Designing:**

Import time

Import sys

Import ihmiotf.application

Import ibmiotf.device

import random

Import json

#Provide your IBM Watson Device Credentials

Organization = "gy3kt7"

deviceType="iotdevice"

deviceId = "1001"

authMethod="token"

```
authToken= "qwertyuiop"
Initialize the device client.
L=0
Det myCommandCallback (cm):
Print("Command received: "cmd.data['command"]}
Χ
If cadaster['command']='switchon':
Print("SWITCH ON IS RECEIVED")
Elif cmd.data['command"]='seitchoff':
Print("SWITCH OFF IS RECEIVED")
Try:
Deviceoptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod,
"auth-token": authToken)
Devicecli ibmiotf.device.Client (deviceOptions)
Except Exception as e:
Print ("Caught exception connecting device: 5" & str€)
Systemic()
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting"
10 times devicecli.connect()
While True:
L=23
E=45
#Send Temperature & Humidity to IBM Watson data = {"d": [ lubricantlevel' : L, 'flowrate': F}}
Print (data)
Def myon PublishCallback():
Print ("Published Lubricant levels C" & L, "Flow rates & E, "to IBM Watson")
Success devicecli.publishEvent("Data", "ison", data, gos-0, on publish-myon PublishCallback)
If not success:
Print ("Not connected to IoTF")
```

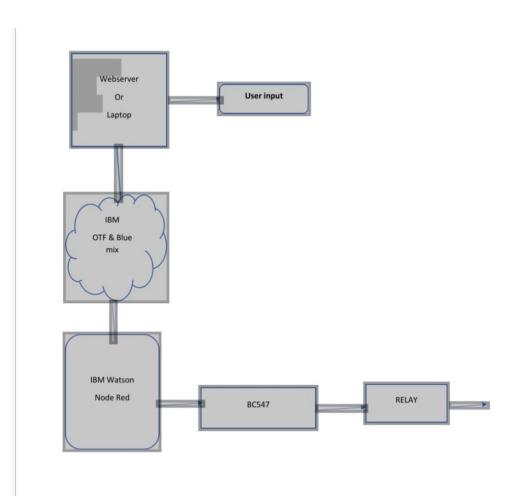
# Time.sleep (1)

 $Device cli. command Callback\ my Command callback$ 

#Disconnect the device and application from the cloud

Devicecli.disconnect()

## FLOW CHART:



#### 2. ADVANTAGES & DIS ADVANTAGES:

#### Advantages:

- •Help you to save time
- Streamline communication with foreigners
- VUI Technology is Evolving
- Help users that suffer from where to know information

### **Dis-Advantages:**

- Smart Home Devices are Expensive
- Human to Human interaction may be lost

#### **3.APPLICATIONS:**

- Lubricate parts like gears, chains, wheels, bearings etc.
- Lubricate the piston movement in engine cylinders.
- Lubricate the vanes of turbines and blowers.
- engines and pumps by dissipating heat effectively.
- Lubricate and cool compressors.
- Lubricate spring systems and rollers.

#### **4.BIBILOGRAPHY:**

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- 2.https://cloud.ibm.com/apidocs/speech-to-text?code=python
- 3.https://cloud.ibm.com