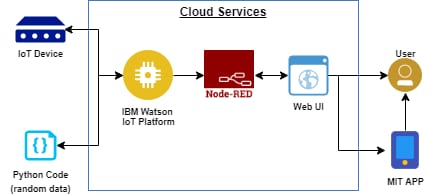
# **1.Theoretical Analysis:**

**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”]}

X

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”)

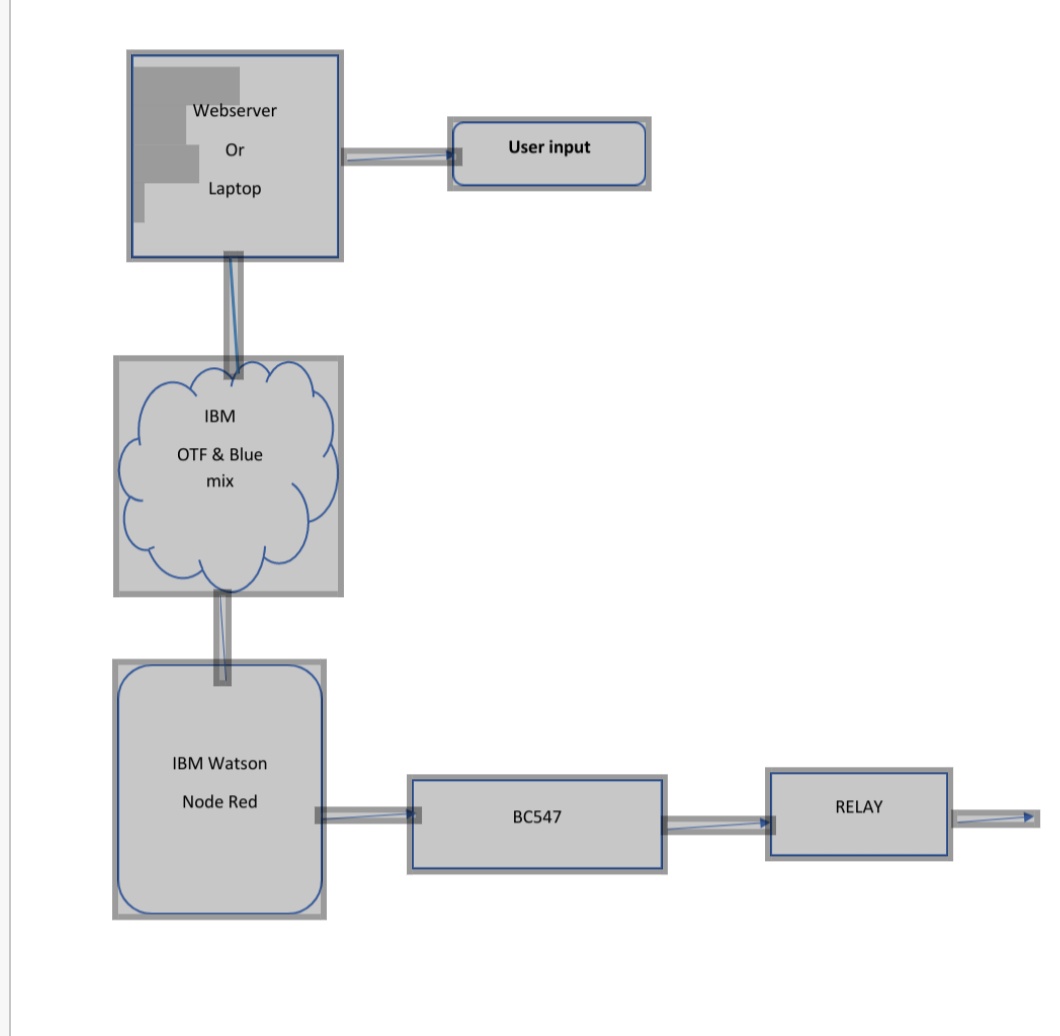
Time.sleep (1)

Devicecli.commandCallback myCommandcallback

#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

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