PROJECT

DEVELOPMENT PHASE DELIVERY OF SPRINT 3

Team ID	PNT2022TMID11112			
Project Name	Personal Assistance for senior citizens who are			
	self-reliant			
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SPRINT III: Development of Python code (Software implementation)

Outline of Sprint 3

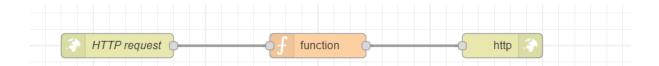
This sprint delivery document contains the following,

- 1)Python code to receive data from node red and send to IoT Watson platform
- 2) Updating of nodes in the node-red platform
- 3)The results of the web UI after deploying.

1) Python code to receive data from node red and send to IoT Watson platform

```
import requests
import paho.mqtt.client as mqtt
import json
while True:
   req=requests.get("http://169.51.206.114:32641/remainder")
   value=req.json()
    if (value!={}):
        try:
            ORG= "jchm38"
            DEVICE TYPE ="MR"
            DEVICE_ID ="2019504037"
            TOKEN ="()!xRUci*BCpeso-rk"
            server = ORG + ".messaging.internetofthings.ibmcloud.com";
            pubTopic1 = "iot-2/evt/medicine/fmt/string"
            pubTopic2 = "iot-2/evt/pH/fmt/json"
            pubTopic3 = "iot-2/evt/turb/fmt/json"
            #pubTopic3 = "iot-2/evt/wf/fmt/json"
            authMethod = "use-token-auth";
            token = TOKEN;
            clientId = "d:" + ORG + ":" + DEVICE TYPE + ":" + DEVICE ID;
            mqttc = mqtt.Client(client id=clientId)
            mqttc.username_pw_set(authMethod, token)
            mqttc.connect(server, 1883, 60)
            mqttc.publish(pubTopic1, json.dumps(value))
            print("Published Successfully!")
        except Exception as error:
            print(error.args[0])
            print("Error!")
mqttc.loop forever()
```

2) Updating of nodes in the node-red platform

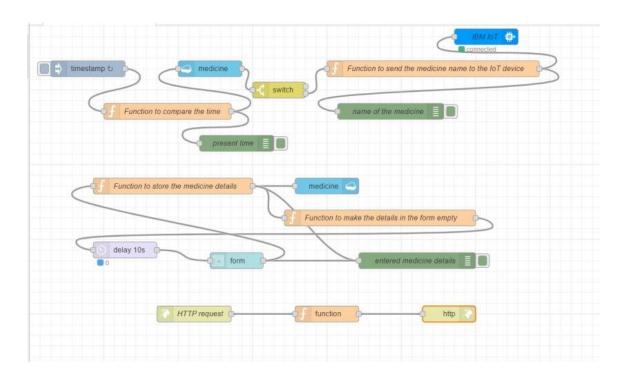


The following function is returned in order to store get the medicine name in http to facilitate request and response via python code

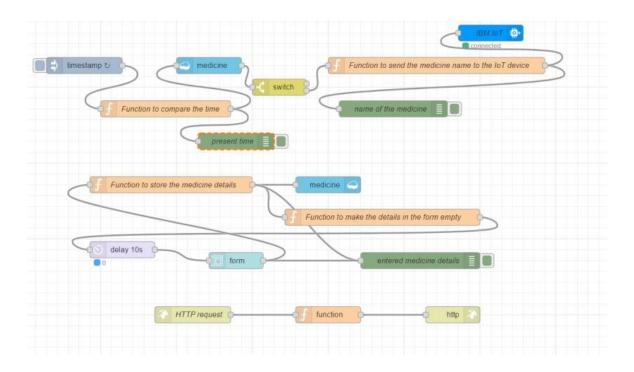
STORE VALUES

Msg.payload=global.get("mr")
Return msg;

The Updated node red flow diagram



3) The results of the web UI after deploying.



python code. The medicine name "Melatonin", is scheduled to be took at 3:50 PM. The name of the medicine is displayed in the IoT platform at 15:50 The next step would be implementing TTS service to spell out the medicine						
name at theapp	oropriate time.					
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