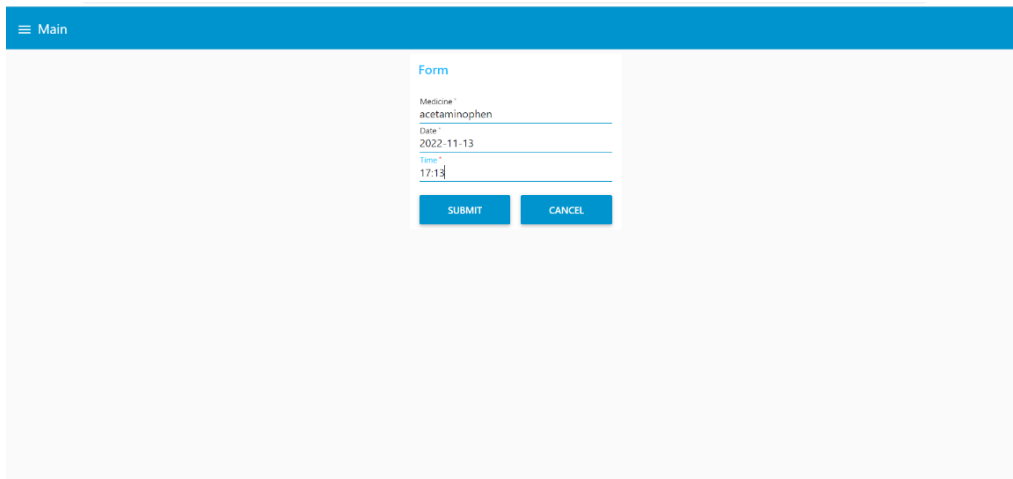


# Final Deliverables

Team ID	PNT2022TMID27334
Project Name	Personal Assistance for Seniors Who Are SelfReliant

## Web Application

### 1. Get Data From User:

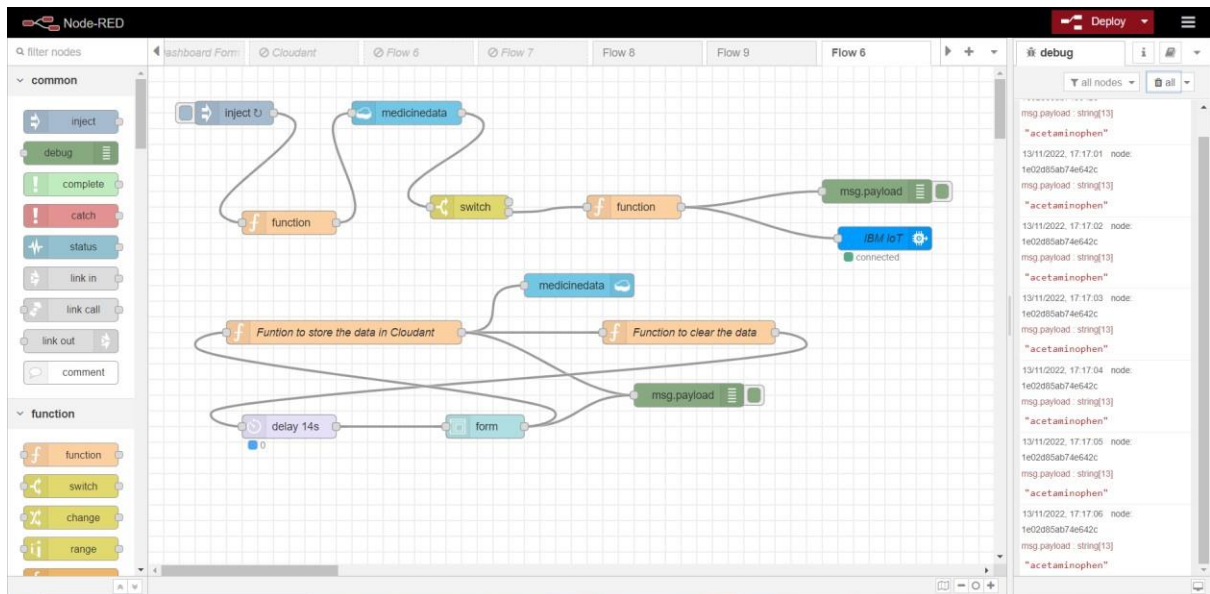


The screenshot shows a web application interface with a blue header bar labeled 'Main'. Below the header, there is a form titled 'Form'. The form contains three input fields: 'Medicine' with the value 'acetaminophen', 'Date' with the value '2022-11-13', and 'Time' with the value '17:13'. Below the input fields are two buttons: 'SUBMIT' and 'CANCEL'.

### 2. Stored in Cloudant



### 3. Display in Node-red



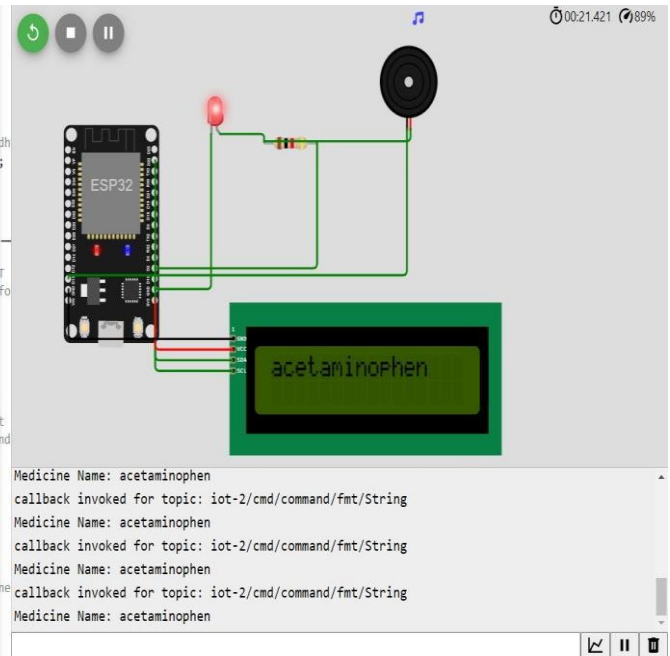
### 4. Streaming in Watson IoT Platform

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays a table of devices. The first device is 'b11m3deviceid', which is 'Connected' and has a 'Device Type' of 'b11m3devicetype'. The 'Date Added' is 'Oct 29, 2022 9:44 PM'. Below the table, the 'Recent Events' tab is selected, showing a list of events. The events are listed in a table with columns: 'Event', 'Value', 'Format', and 'Last Received'. The events are all 'IoT Device' events with a value of '["medicine";"acetaminophen"]' and a format of 'json'. The 'Last Received' time for all events is 'a few seconds ago'.

Event	Value	Format	Last Received
IoT Device	["medicine";"acetaminophen"]	json	a few seconds ago
IoT Device	["medicine";"acetaminophen"]	json	a few seconds ago
IoT Device	["medicine";"acetaminophen"]	json	a few seconds ago
IoT Device	["medicine";"acetaminophen"]	json	a few seconds ago
IoT Device	["medicine";"acetaminophen"]	json	a few seconds ago

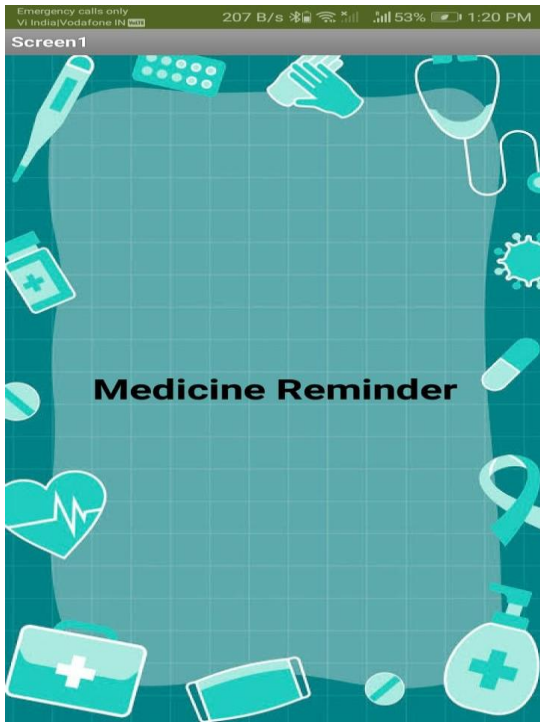
## 5. Simulation

```
1 #include <WiFi.h> //library for wifi
2 #include <PubSubClient.h> //library for MQTT
3 #include <LiquidCrystal_I2C.h>
4 #include "DHT.h" // Library for dht11
5 #define DHTPIN 15 // what pin we're connected to
6 #define DHTTYPE DHT11 // define type of sensor DHT 11
7 #define LED 2
8 DHT dht (DHTPIN, DHTTYPE); // creating the instance by passing pin and type of dht
9 void callback(char* subscribetopic, byte* payload, unsigned int payloadLength);
10
11
12 //-----Credentials of IBM Accounts-----
13
14 #define ORG "64yf7x" //IBM ORGANIZATION ID
15 #define DEVICE_TYPE "b1m3edevicetype" //Device type mentioned in ibm watson IOT
16 #define DEVICE_ID "b1m3edeviceid" //Device ID mentioned in ibm watson IOT Platform
17 #define TOKEN "-&EMtr7L-v-Gz2G)e" //Token
18 String data3="";
19 int buzz= 13;
20
21 //----- Customise the above values -----
22 char server[] = ORG ".messaging.internetofthings.ibmcloud.com"; // Server Name
23 char publishTopic[] = "iot-2/evt/data/fmt/json"; // topic name and type of event
24 char subscribetopic[] = "iot-2/cmd/command/fmt/String"; // cmd REPRESENT command
25 char authMethod[] = "use-token-auth"; // authentication method
26 char token[] = TOKEN;
27 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID; //client id
28 LiquidCrystal_I2C lcd(0x27,16,2);
29
30 //-----
31 WiFiClient wifiClient; // creating the instance for wifiClient
32 PubSubClient client(server, 1883, callback, wifiClient); //calling the predefined
33
34 void setup() // configuring the ESP32
35 {
```



# Mobile Application

## 1. Splash Screen



## 2. Get Data From User

Screen1

Enter the medicine name

acetomenophin

Enter the time

10.3

SUBMIT

10th. 10. 19e...@kcg...com

en/ta/tam

## 3. Store in Cloudant DB

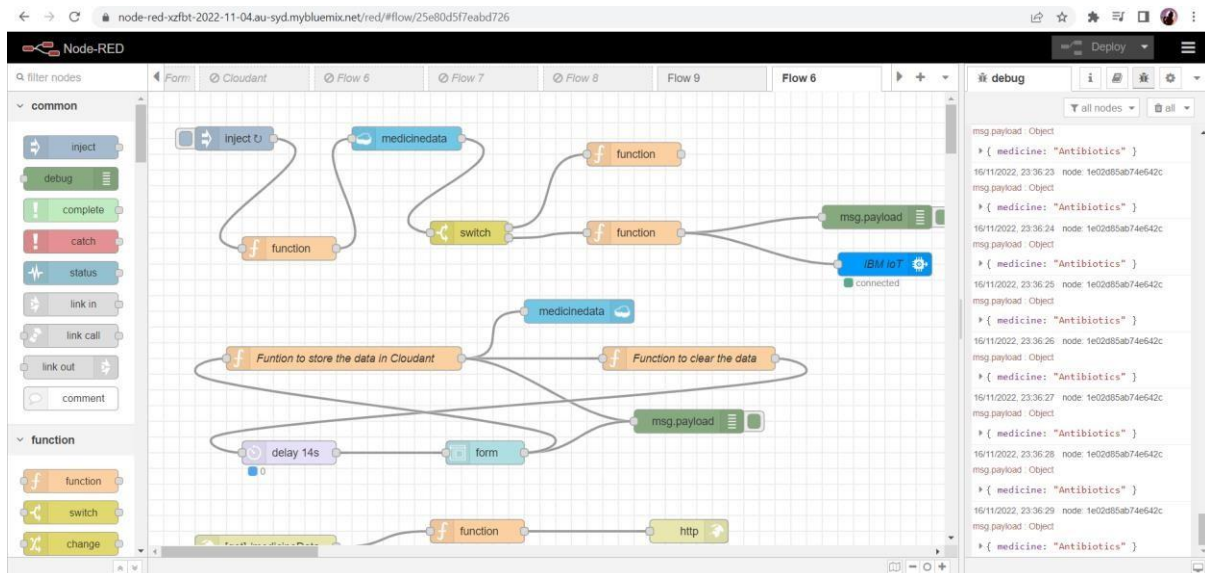


## 4. Display Reminder with audio



**TIME TO TAKE ACETOMENOPHIN**

## 5. Display in node-red



## 6. Remainder in Simulation

```
1  #include <WiFi.h> //library for wifi
2  #include <PubSubClient.h> //library for MQTT
3  #include <LiquidCrystal_I2C.h>
4  #include "DHT.h" // Library for dht11
5  #define DHTPIN 15 // what pin we're connected to
6  #define DHTTYPE DHT11 // define type of sensor DHT 11
7  #define LED 2
8  DHT dht (DHTPIN, DHTTYPE); // creating the instance by passing pin and type of dht
9  void callback(char* subscribetopic, byte* payload, unsigned int payloadLength);
10
11
12 //-----credentials of IBM Accounts-----
13
14 #define ORG "64yf7x" //IBM ORGANIZATION ID
15 #define DEVICE_TYPE "b1m3edevicetype" //Device type mentioned in ibm watson IOT
16 #define DEVICE_ID "b1m3edeviceid" //Device ID mentioned in ibm watson IOT Platform
17 #define TOKEN "-&Ehtr7l-v-Gz2G))e" //Token
18 String data3="";
19 int buzz= 13;
20
21 //----- Customise the above values -----
22 char server[] = ORG ".messaging.internetofthings.ibmcloud.com"; // Server Name
23 char publishTopic[] = "iot-2/evt/Data/fmt/json"; // topic name and type of event
24 char subscribetopic[] = "iot-2/cmd/command/fmt/String"; // cmd REPRESENT command
25 char authMethod[] = "use-token-auth"; // authentication method
26 char token[] = TOKEN;
27 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID; //client id
28 LiquidCrystal_I2C lcd(0x27,16,2);
29
30 //-----
31 WiFiClient wificlient; // creating the instance for wificlient
32 PubSubClient client(server, 1883, callback, wificlient); //calling the predefined
33
34 void setup() // configuring the ESP32
35 {
```

