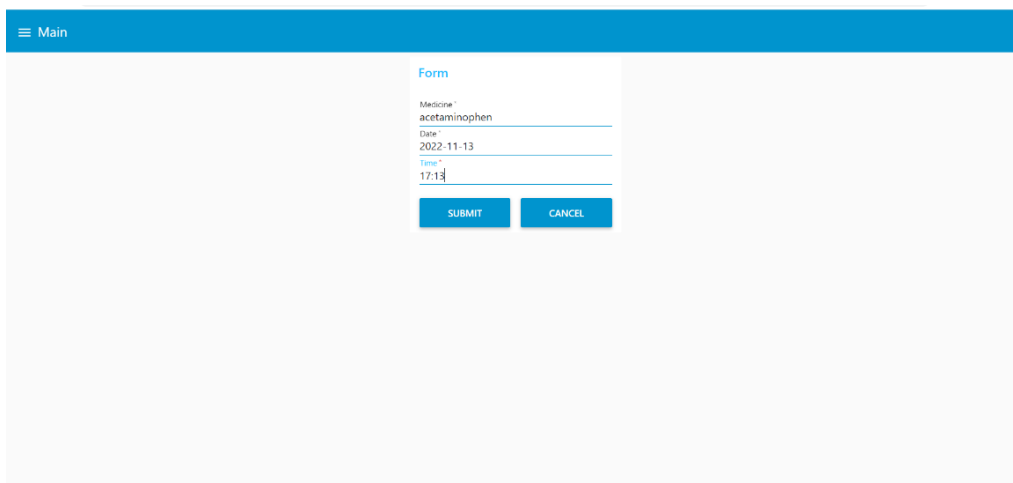


Final Deliverables

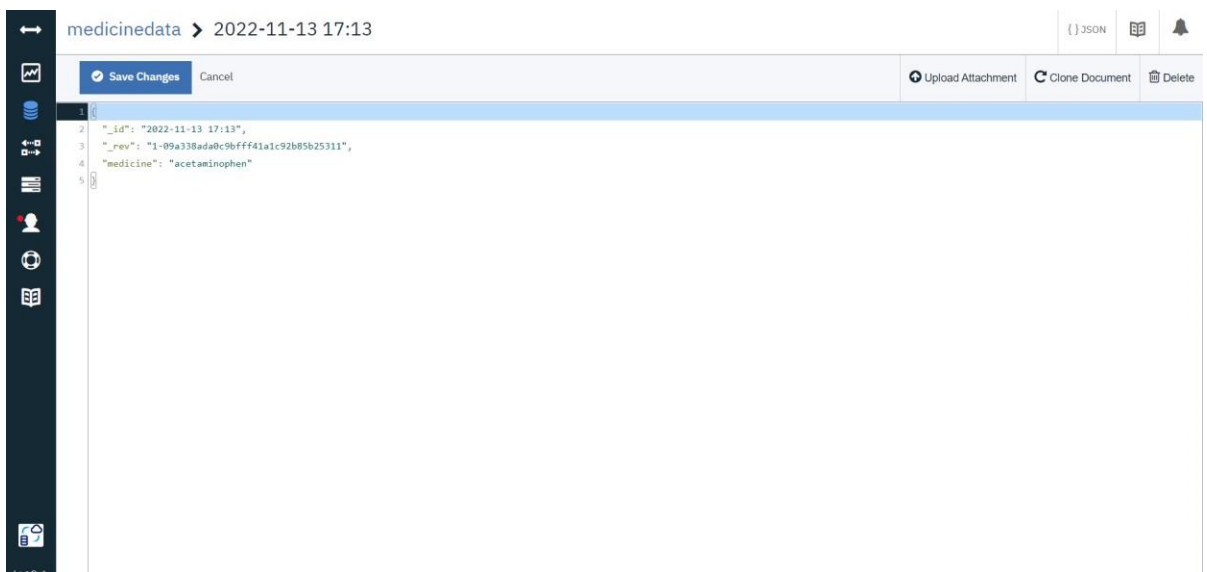
Team ID	PNT2022TMID27334
Project Name	Personal Assistance for Seniors Who Are Self Reliant

1. Get Data From User:



The screenshot shows a web application interface. At the top, there is a blue header bar with a hamburger menu icon and the text "Main". Below the header, there is a large, light gray rectangular area. In the center of this area, there is a white 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, there are two buttons: "SUBMIT" and "CANCEL".

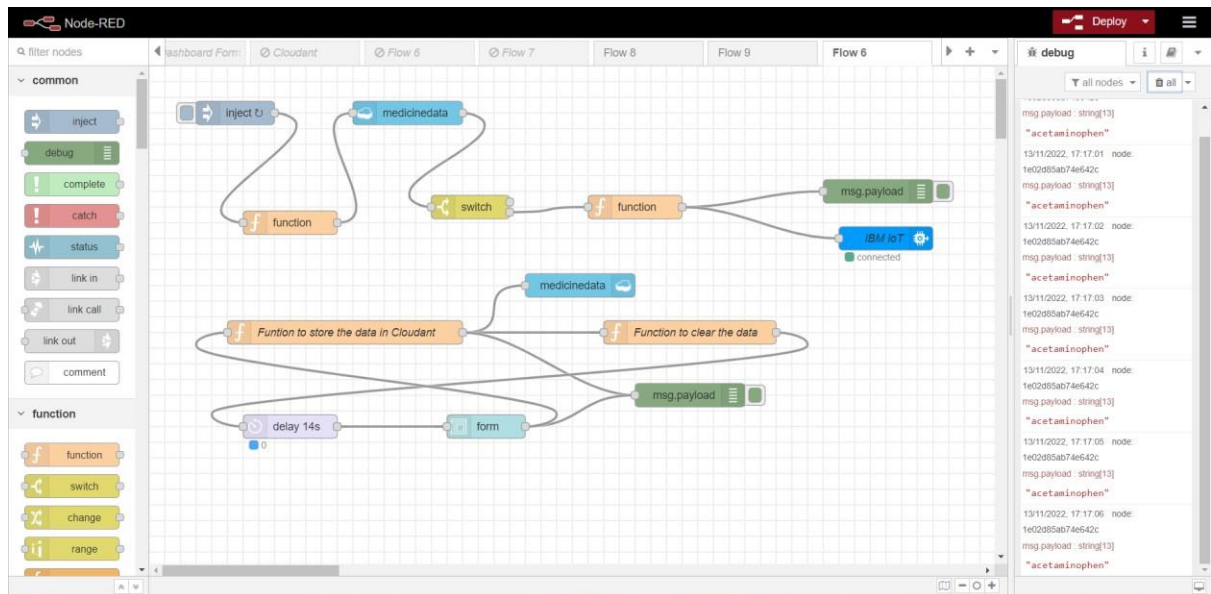
2. Stored in Cloudant



The screenshot shows a web application interface for managing documents in Cloudant. At the top, there is a header bar with the text "medicinedata" and a dropdown menu showing "2022-11-13 17:13". To the right of the header, there are icons for JSON, a document, and a bell. Below the header, there is a light gray bar with a "Save Changes" button and a "Cancel" button. To the right of this bar, there are buttons for "Upload Attachment", "Clone Document", and "Delete". The main area of the application is a large, light gray rectangular area containing a JSON document. The document has the following structure:

```
1 {
2   "_id": "2022-11-13 17:13",
3   "_rev": "1-09a338ada0c9bfff41a1c92b85b25311",
4   "medicine": "acetaminophen"
5 }
```

3. Display in Node-red



4. Streaming in Watson IoT Platform

Browse Action Device Types Interfaces Add Device +

Search by Device ID

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
b11m3deviceid	Connected	b11m3devicetype	Device	Oct 29, 2022 9:44 PM	

→ ...

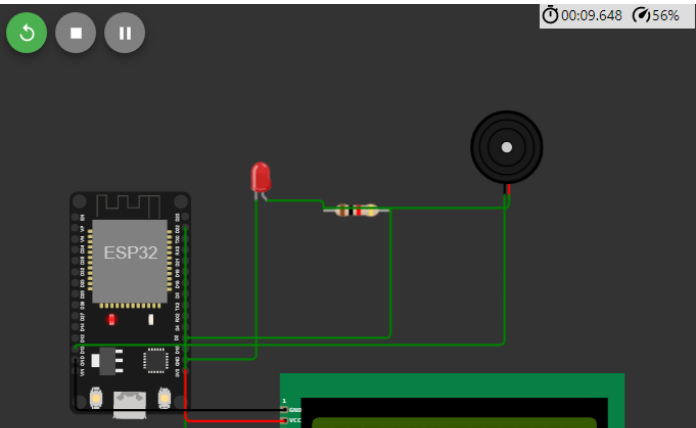
Identity **Device Information** Recent Events State Logs ✕

The recent events listed show the live stream of data that is coming and going from this device.

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
9 void callback(char* subscribetopic, byte* payload, unsigned int payloadlength)
10
11
12 //-----credentials of IBM Accounts-----
13
14 #define ORG "mjse7u" //IBM ORGANIZATION ID
15 #define DEVICE_TYPE "abcddevicetype" //Device type mentioned in ibm watson IOT
16 #define DEVICE_ID "12345edevicid" //Device ID mentioned in ibm watson IOT Plat
17 #define TOKEN "1234567890" //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(0x27,32,2);
29
30 //-----
31 WiFiClient wifiClient; // creating the instance for wifi client
32 PubSubClient client(server, 1883, callback, wifiClient); //calling the predefined
```



```
Connecting to ...
Wifi connected
IP address:
10.10.0.2
Reconnecting client to mjse7u.messaging.internetofthings.ibmcloud.com
.....
```