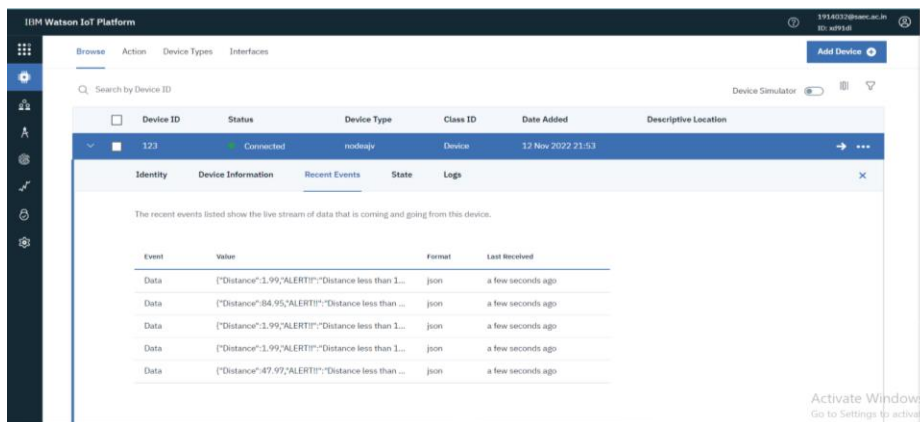
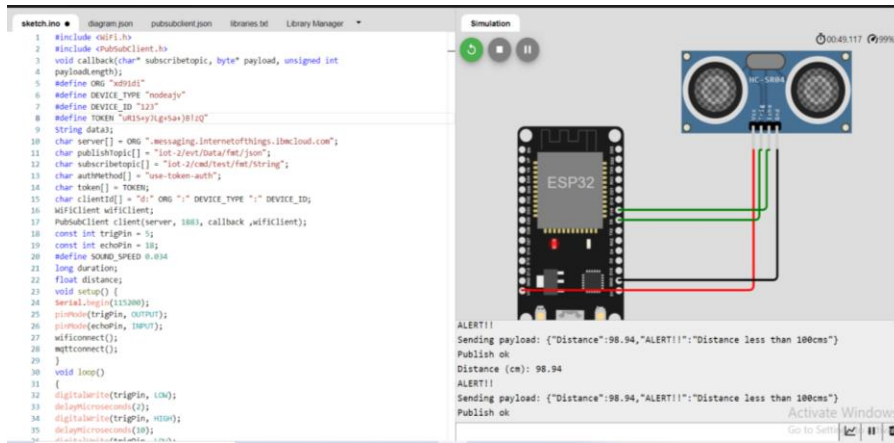
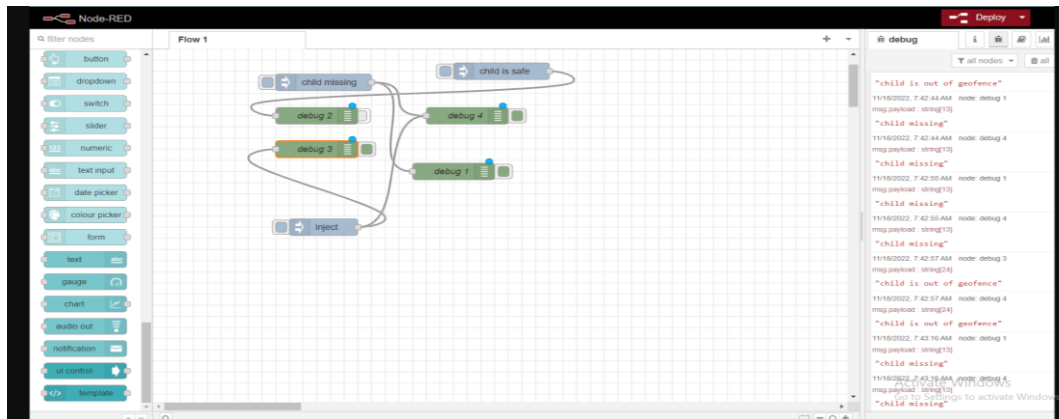


SPRINT -2





MAIN LOGIN CODE

```
<!DOCTYPE html>
```

```
<html> <head>
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<title> Login Page </title>
```

```
<style>
```

```
Body {
```

```
font-family: Calibri, Helvetica, sans-serif;
```

```
background-color: #9FE2BF;
```

```
}
```

```
button {
```

```
background-color: #9FE2BF;
```

```
Team ID PNT2022TMID27063
```

```
Date 5 November 2022
```

```
Project Title IoT Based Safety
```

```
Gadget for Child
```

Safety Monitoring

and Notification

width: 100%;

color: black;

padding: 15px;

margin: 10px 0px;

border: none;

cursor: pointer;

}

form {

border: 3px solid #f1f1f1;

}

input[type=text], input[type=password] {

width: 100%;

margin: 8px 0;

padding: 12px 20px;

display: inline-block;

border: 2px white;

box-sizing: border-box;

}

button:hover {

opacity: 0.7;

}

.cancelbtn {

width: auto;

padding: 10px 18px;

margin: 10px 5px;

}

.container {

padding: 25px;

background-color: #CCCCFF;

}

</style> </head>

<body>

<center> <h1> Login Form </h1> </center>

<form>

<div class="container">

<label>Device ID/Number: </label>

<input type="password" placeholder="Enter Password" name="password" required>

<label>E-Mail : </label>

<input type="text" placeholder="Enter Username" name="username" required>

<label>Password : </label>

<input type="password" placeholder="Enter Password" name="password" required>

<button type="submit">Login</button>

<button class="loginBtn loginBtn--facebook">Login with Facebook.</button>

<button class="loginBtn loginBtn--google">Login with Google.</button>

<input type="checkbox" checked="checked"> Remember me

<button type="button" class="cancelbtn"> Cancel</button>

Forgot password?

</div>

</form>

</body>

</html>

NOTIFICATION CODE

```
#include <WiFi.h>
```

```
#include <PubSubClient.h>
```

```
void callback(char* subscribetopic, byte* payload, unsigned int  
payloadLength);
```

```
#define ORG "xd91di"
```

```
#define DEVICE_TYPE "nodeajv"
```

```
#define DEVICE_ID "123"
```

```
#define TOKEN "uR1S+yJLg+Sa+)B!zQ"
```

```
String data3;
```

```
char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
```

```
char publishTopic[] = "iot-2/evt/Data/fmt/json";
```

```
char subscribetopic[] = "iot-2/cmd/test/fmt/String";
```

```
char authMethod[] = "use-token-auth";
```

```
char token[] = TOKEN;

char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;

WiFiClient wifiClient;

PubSubClient client(server, 1883, callback ,wifiClient);

const int trigPin = 5;

const int echoPin = 18;

#define SOUND_SPEED 0.034

long duration;

float distance;

void setup() {
  Serial.begin(115200);

  pinMode(trigPin, OUTPUT);

  pinMode(echoPin, INPUT);

  wificonnect();

  mqttconnect();
}

void loop()
{
  digitalWrite(trigPin, LOW);

  delayMicroseconds(2);

  digitalWrite(trigPin, HIGH);

  delayMicroseconds(10);

  digitalWrite(trigPin, LOW);

  duration = pulseIn(echoPin, HIGH);

  distance = duration * SOUND_SPEED/2;
```

```
Serial.print("Distance (cm): ");

Serial.println(distance);

if(distance<100)

{

Serial.println("ALERT!!");

delay(1000);

PublishData(distance);

delay(1000);

if (!client.loop()) {

mqttconnect();

}

}

delay(1000);

}

void PublishData(float dist) {

mqttconnect();

String payload = "{\"Distance\":";

payload += dist;

payload += ", \"ALERT!!\": \"\" \"Distance less than 100cms\"\"";

payload += "}";

Serial.print("Sending payload: ");

Serial.println(payload);


if (client.publish(publishTopic, (char*) payload.c_str())) {

Serial.println("Publish ok");
```

```
} else {  
  
  Serial.println("Publish failed");  
  
}  
  
}  
  
void mqttconnect() {  
  
  if (!client.connected()) {  
  
    Serial.print("Reconnecting client to ");  
  
    Serial.println(server);  
  
    while (!!!client.connect(clientId, authMethod, token)) {  
  
      Serial.print(".");  
  
      delay(500);  
  
    }  
  
    initManagedDevice();  
  
    Serial.println();  
  
  }  
  
}  
  
void wificonnect()  
  
{  
  
  Serial.println();  
  
  Serial.print("Connecting to ");  
  
  WiFi.begin("Wokwi-GUEST", "", 6);  
  
  while (WiFi.status() != WL_CONNECTED) {  
  
    delay(500);  
  
    Serial.print(".");  
  
  }  
  
}
```



```
Serial.println("");

Serial.println("WiFi connected");

Serial.println("IP address: ");

Serial.println(WiFi.localIP());

}

void initManagedDevice() {

if (client.subscribe(subscribetopic)) {

Serial.println(subscribetopic);

Serial.println("subscribe to cmd OK");

} else {

Serial.println("subscribe to cmd FAILED");

}

}

void callback(char* subscribetopic, byte* payload, unsigned int payloadLength)

{

Serial.print("callback invoked for topic: ");

Serial.println(subscribetopic);

for (int i = 0; i < payloadLength; i++) {

data3 += (char)payload[i];

}

Serial.println("data: "+ data3);

data3="";

}
```