### Hazardous Area Monitoring For Industrial Plant Powered By IoT

### Building Mobile App

**Design for temperature and humidity**

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#include <SoftwareSerial.h>

SoftwareSerial bt(8, 9); // RX, TX

#include <LiquidCrystal.h>

#include "dht.h"

#define dataPin A0

LiquidCrystal lcd(2, 3, 4, 5, 6, 7); dht DHT;

int temp; int hum;

void setup() {

Serial.begin(9600); bt.begin(9600);

Serial.println("Ready");

lcd.begin(16,2); lcd.setCursor(0,0); lcd.print(" WELCOME To My "); lcd.setCursor(0,1); lcd.print("YouTube Channel"); delay(2000);

lcd.clear();

}

void loop(){ int readData = DHT.read11(dataPin);

hum = DHT.humidity; temp = DHT.temperature;

lcd.setCursor(0,0); lcd.print("Humidity: "); lcd.print(hum); lcd.print("% ");

lcd.setCursor(0,1); lcd.print("Temp: "); lcd.print(temp); lcd.print((char)223); //degree symbol

lcd.print("C ");

bt.print(temp); //send distance to MIT App

bt.print(";"); bt.print(hum); //send distance to MIT App

bt.println(";");

delay(1000);

}