A STUDY ON

THE WATER LEVEL MONITORING

PROJRCT REPORT

Submitted by

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ELECTRICAL AND ELECTRONICS ENGINEERING

In

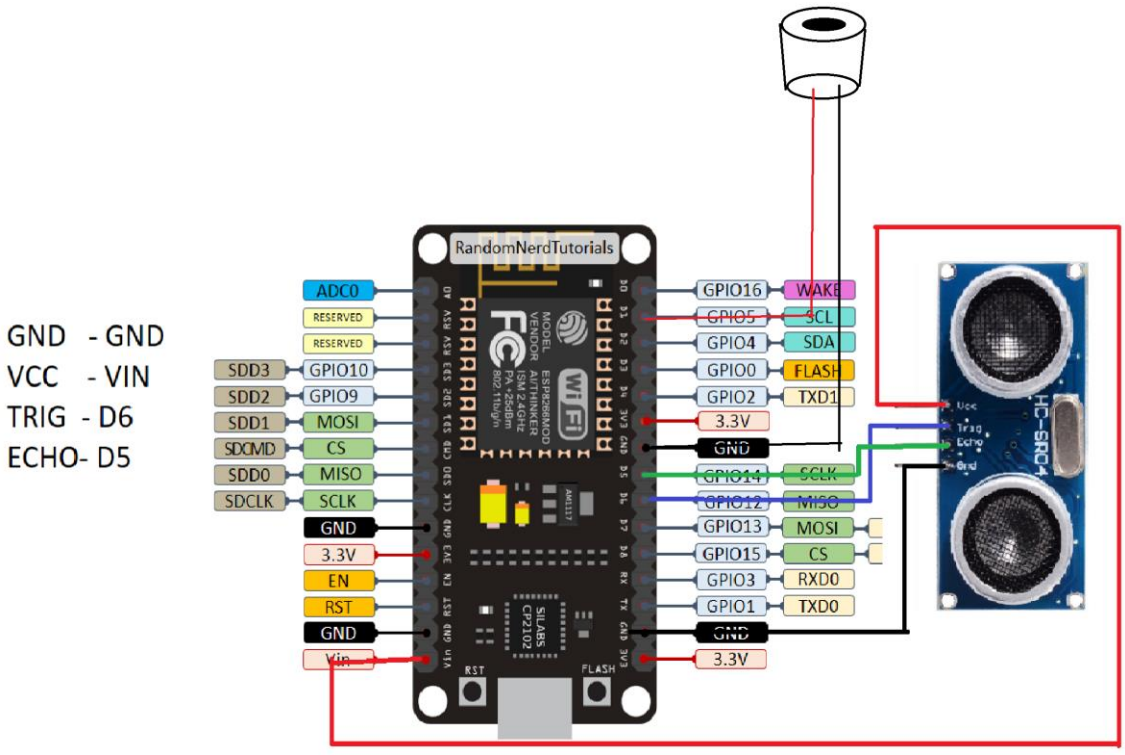
MAHATMA GANDHI INSTITUTE OF TECHNOLOGY-HYDERABAD

TITLE : *WATER LEVEL MONITORING*

Material Required :

- NODE MCU ESP8266
- Ultrasonic sensor
- Buzzer
- USB to micro USB cable.

CIRCUIT DIAGRAM



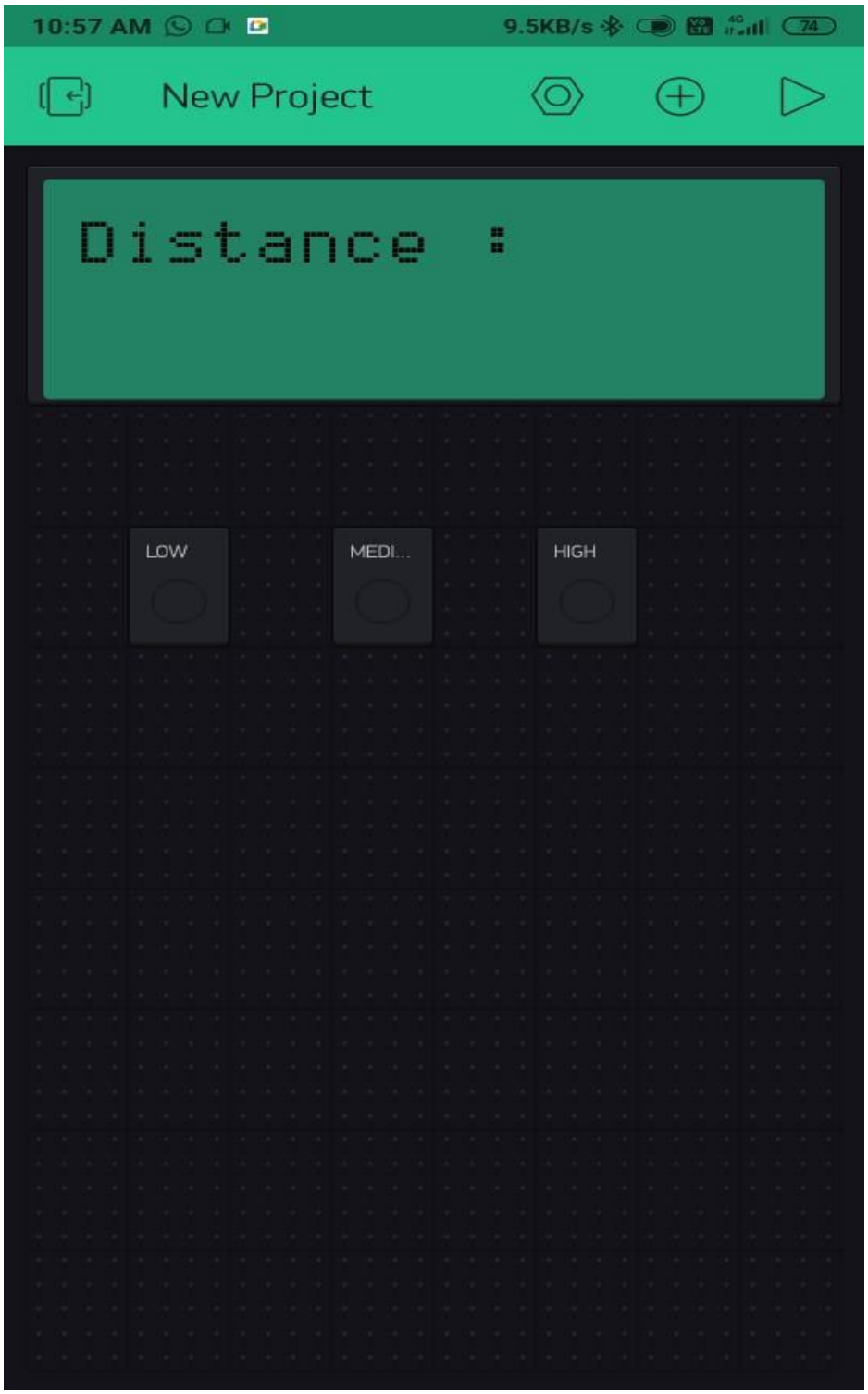
CODE :

```
#define BLYNK_PRINT Serial
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>
#include<HCSR04.h>
#define trig D6
#define echo D5
#define buzz D1
HCSR04 hc(trig,echo);

char auth[] = " r6lI8Q-zhb_iFY-IsVDkqL3egKsuHFXS";
char ssid[] = "Bharadwaj";
char pass[] = "12345678";



BlynkTimer timer;

void sendSensor()
{
  int c = hc.dist();
  if ( c == 0 ) {
    Serial.println("Failed to read from Ultrasonic sensor!");
    return;
  }

  Blynk.virtualWrite(V5, c);

  if((c<=12) and (c>=8))
  {
     Blynk.virtualWrite(V6,255);
     Blynk.virtualWrite(V7,0);
     Blynk.virtualWrite(V8,0);
     digitalWrite(buzz,LOW);

  }
  else if((c<=8) and (c>=5))
  {
    Blynk.virtualWrite(V7, 255);
    Blynk.virtualWrite(V6, 0);
    Blynk.virtualWrite(V8, 0);
    digitalWrite(buzz,LOW);
  }
  else
  {
    Blynk.virtualWrite(V8,255);
    Blynk.virtualWrite(V7, 0);
    Blynk.virtualWrite(V6, 0);
    digitalWrite(buzz,HIGH);
```

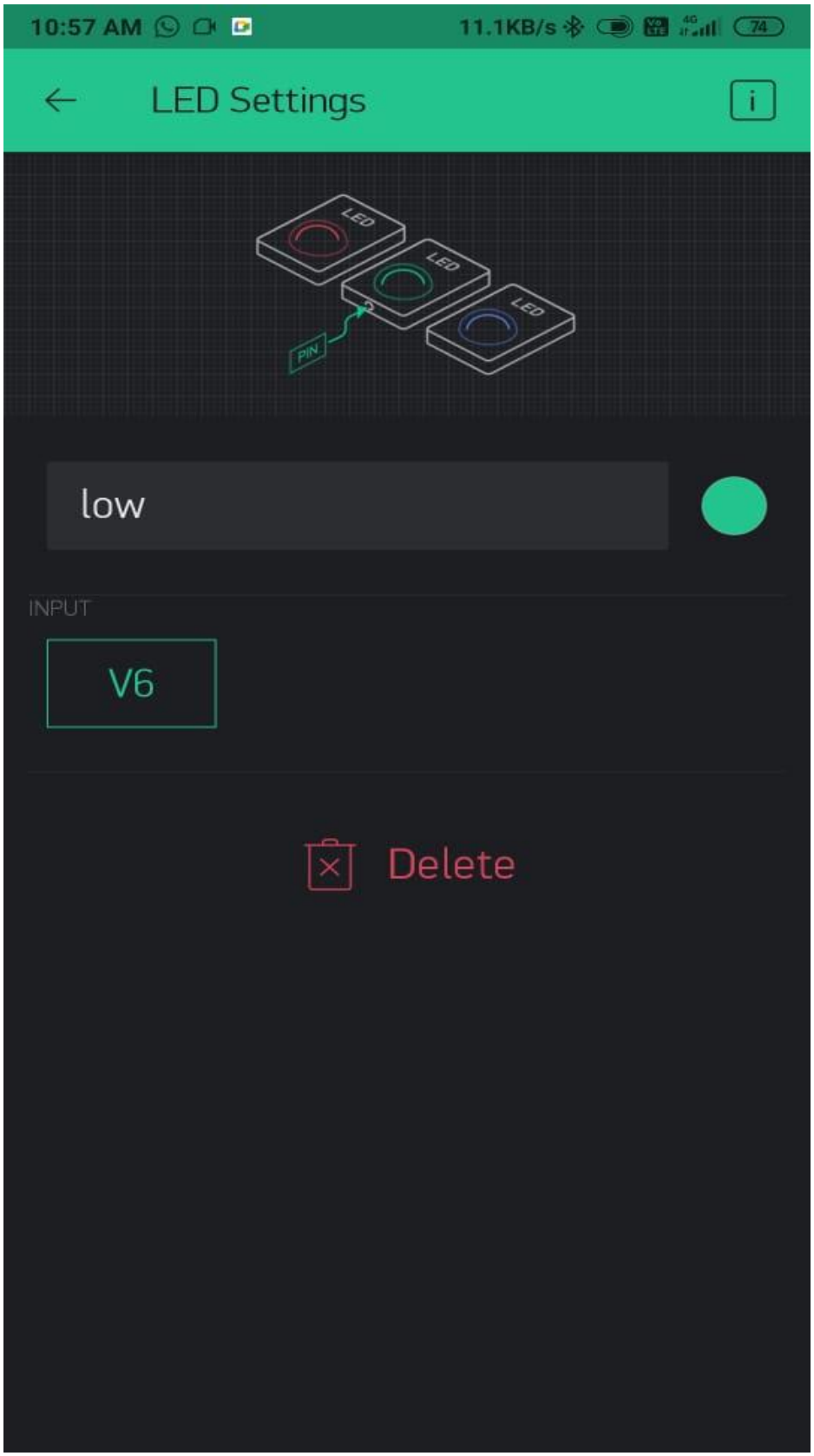
```
  }

}

void setup()
{
  pinMode(buzz, OUTPUT);
  // Debug console
  Serial.begin(9600);

  Blynk.begin(auth, ssid, pass);

timer.setInterval(1000L, sendSensor);
}

void loop()
{
  Blynk.run();
  timer.run();
}
```

BLYNK APP CONFIGURATION

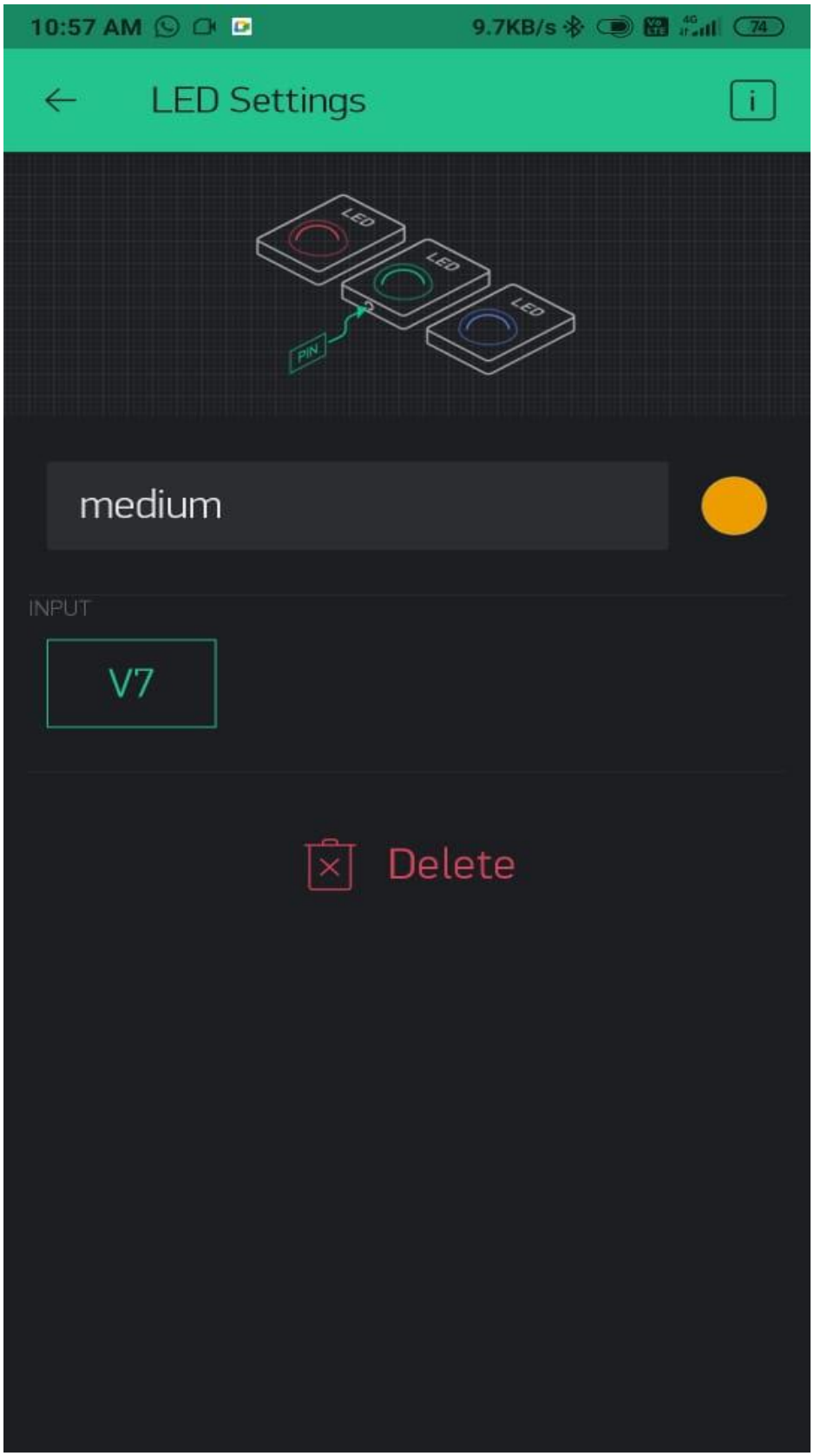
➢ INTERFACE



CONFIGURATION OF LED FOR LOW LEVEL



CONFIGURATION OF LED FOR MEDIUM LEVEL



CONFIGURATION OF LED FOR HIGH LEVEL