IOT BASED SMART CAR PARKING SYSTEM

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PROJECT CODE
#define BLYNK TEMPLATE ID "TMPL37d1-Xx33"
#define BLYNK TEMPLATE NAME "parking2"
#define BLYNK AUTH TOKEN "JYMB5gYoWSaP8w6lgwXBqrgZK2LmPBEq"
#include<Wire.h>
#include<WiFiClient.h>
#include<BlynkSimpleEsp32.h>
#include<LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0*27, 16, 2);
#define SENSOR1 32
#define SENSOR2 33
#define SENSOR3 25
#define SENSOR4 26
// Blynk Timer
BlynkTimer timer;
// WiFi Credentials
char auth[] = "JYMB5gYoWSaP8w6lgwXBqrgZK2LmPBEq";
char ssid[] = "ragul"; // Your WiFi name
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char pass[] = "62226222"; // Your WiFi password
void setup() {
 Serial.begin(115200);
 lcd.backlight();
 lcd.setCursor(0, 0);
 lcd.print( "Welcome To");
 lcd.setCursor(0, 1);
 lcd.print("JustDoElectronic");
 Blynk.begin(auth, ssid, pass, "blynk.cloud", 80);
 pinMode(SENSOR1, INPUT_PULLUP);
 pinMode(SENSOR2, INPUT_PULLUP);
pinMode(SENSOR3, INPUT_PULLUP);
 pinMode(SENSOR4, INPUT PULLUP);
}
void sensor() {
 int L1 = digitalRead(SENSOR1);
 int L2 = digitalRead(SENSOR2);
 int L3 = digitalRead(SENSOR3);
 int L4 = digitalRead(SENSOR4);
 if (L1 == 1){
  Serial.println(" IR Sensor 1 detected");
 lcd.setCursor(0, 0);
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lcd.print("1:Full.");
 WidgetLED LED1(V0);
 LED1.on();
} else {
 Serial.println(" 1 === ALL clear");
 lcd.setCursor(0, 0);
 lcd.print("1:Empty");
 WidgetLED LED1(V0);
 LED1.off();
}
if (L2 == 1) {
 Serial.println(" IR Sensor 2 detected");
 lcd.setCursor(9, 0);
 lcd.print("2:Full.");
 WidgetLED LED2(V1);
 LED2.on();
}else {
 Serial.println(" 2 === ALL clear");
 lcd.setCursor(9, 0);
 lcd.print("2:Empty");
 WidgetLED LED2(V1);
 LED2.off();
}
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if (L3 == 1) {
 Serial.println(" IR Sensor 3 detected");
 lcd.setCursor(0, 1);
 lcd.print("3:Full.");
 WidgetLED LED3(V2);
 LED3.on();
}else {
 Serial.println(" 3 === ALL clear");
 lcd.setCursor(0, 1);
 lcd.print("3:Empty");
 WidgetLED LED3(V2);
 LED3.off();
 }
 {
 if (L4 == 1) {
 Serial.println(" IR Sensor 4 detected");
 lcd.setCursor(9, 1);
 lcd.print("4:Full.");
 WidgetLED LED4(V3);
 LED4.on();
}else {
 Serial.println(" 4 === ALL clear");
 lcd.setCursor(9, 1);
 lcd.print("4:Empty");
 WidgetLED LED4(V3);
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LED4.off();
}

}

void loop() {
  sensor();
  Blynk.run();
  delay(200);
}
```