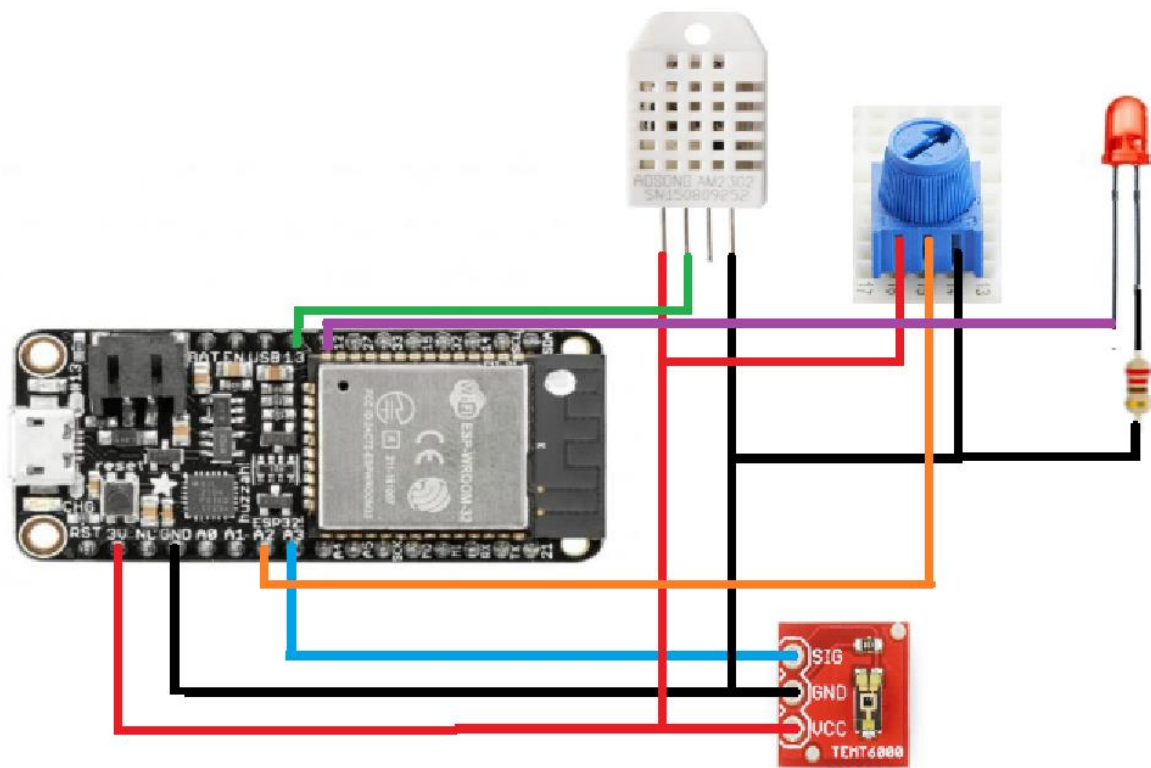


PROJECT CIRCUIT



WORKING :

```
Project | Arduino IDE 2.2.1
File Edit Sketch Tools Help

Adafruit ESP32 Feather

Project.ino
44 float level = analogRead(POTENTIOMETER_PIN); // Reading level with a sensor simulation with a potentiometer
45 // Print the values on the serial port
46 Serial.print("Temperature: ");
47 Serial.print (temperature);
48 Serial.println(" °C");
49 Serial.print("Humidity: ");
50 Serial.print (humidity);
51 Serial.println(" %");
52 Serial.print("light: ");
53 Serial.print(light);
54 Serial.println(" %");
55 Serial.print("level: ");
56 Serial.print(level);
57 Serial.println(" %");
58
59 if (WiFi.status() == WL_CONNECTED) {
60     // Send data to server
61     http.POST("{\"temp\":"+String(temperature)+"\", \"hum\":"+String(humidity)+"\", \"light\":"+String(light)+"\", \"level\":"+String(level)+"\"}");
62     delay(1000);
63 }

Serial Monitor x Output
Message (Enter to send message to 'Adafruit ESP32 Feather' on 'COM6') New Line 115200 baud

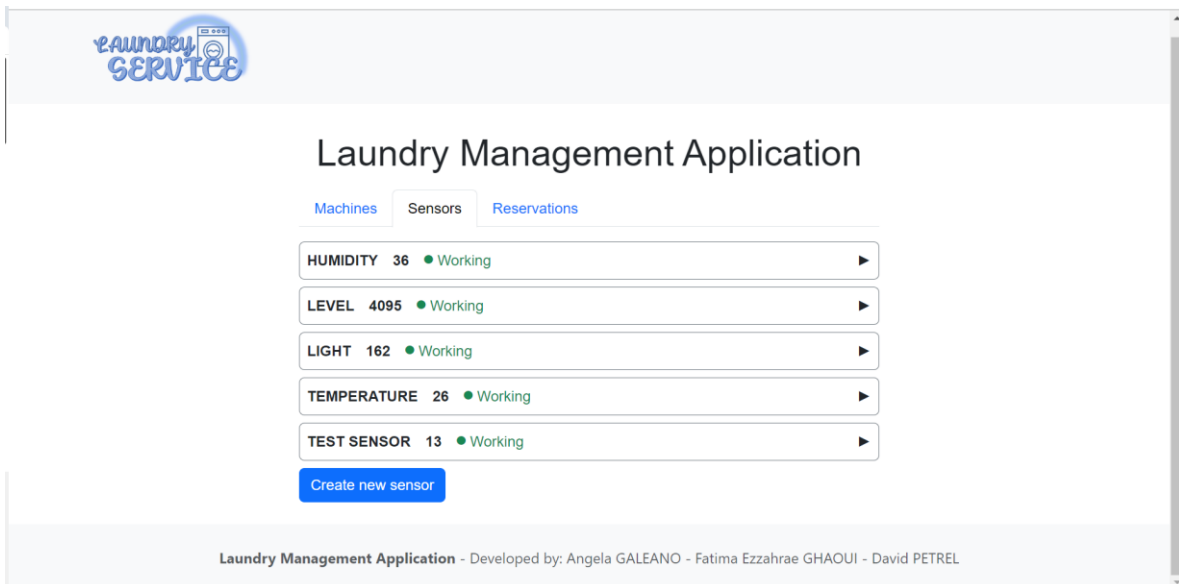
10:44:49.302 -> .
10:44:49.302 -> Successful connection
10:44:49.302 -> IP address: 172.20.10.6
10:45:18.138 -> Temperature: 26.00 °C
10:45:18.138 -> Humidity: 36.90 %
10:45:18.138 -> light: 226.00 %
10:45:18.138 -> level: 4095.00 %
10:45:18.463 -> Server response: 200
10:45:19.820 -> Server response: 200
10:45:21.217 -> Server response: 200
10:45:22.639 -> Server response: 200

Ln 25, Col 25 Adafruit ESP32 Feather on COM6
```

```

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10:45:21.217 -> Server response: 200
10:45:22.639 -> Server response: 200

```



```

// Void to check if the connection is available
void connectToWiFi() {
  Serial.print("Connecting to ");
  Serial.println(ssid);

  WiFi.begin(ssid, password);

  while (WiFi.status() != WL_CONNECTED) {
    delay(1000);
    Serial.print(".");
  }
  Serial.println("");
  Serial.println("Successful connection");
  Serial.print("IP address: ");
  Serial.println(WiFi.localIP());
}

```

```

// Void to send humidity sensor
//data to the backend at the correct sensor ID
void sendHumidityData(float humidity) {
    HTTPClient http;

    String serverEndpoint = "http://laundryapp.cleverapps.io/api/sensors/update/25";

    // Crear un objeto JSON usando ArduinoJson
    StaticJsonDocument<200> jsonDocument;
    jsonDocument["id"] = 2;
    jsonDocument["name"] = "Humidity";
    jsonDocument["measure"] = humidity;
    jsonDocument["sensorType"] = "HUMIDITY";
    jsonDocument["status"] = false;

    String jsonString;
    serializeJson(jsonDocument, jsonString);

    http.begin(serverEndpoint);
    http.addHeader("Content-Type", "application/json");
    http.setAuthorization("user", "myPassword");

    int httpResponseCode = http.PUT(jsonString);

    if (httpResponseCode > 0) {
        Serial.print("Server response: ");
        Serial.println(httpResponseCode);
        digitalWrite(LED_PIN, HIGH);
        delay(1000);
        digitalWrite(LED_PIN, LOW);
    } else {
        Serial.print("Error in the request:");
        Serial.println(httpResponseCode);
    }
    http.end();
}

```