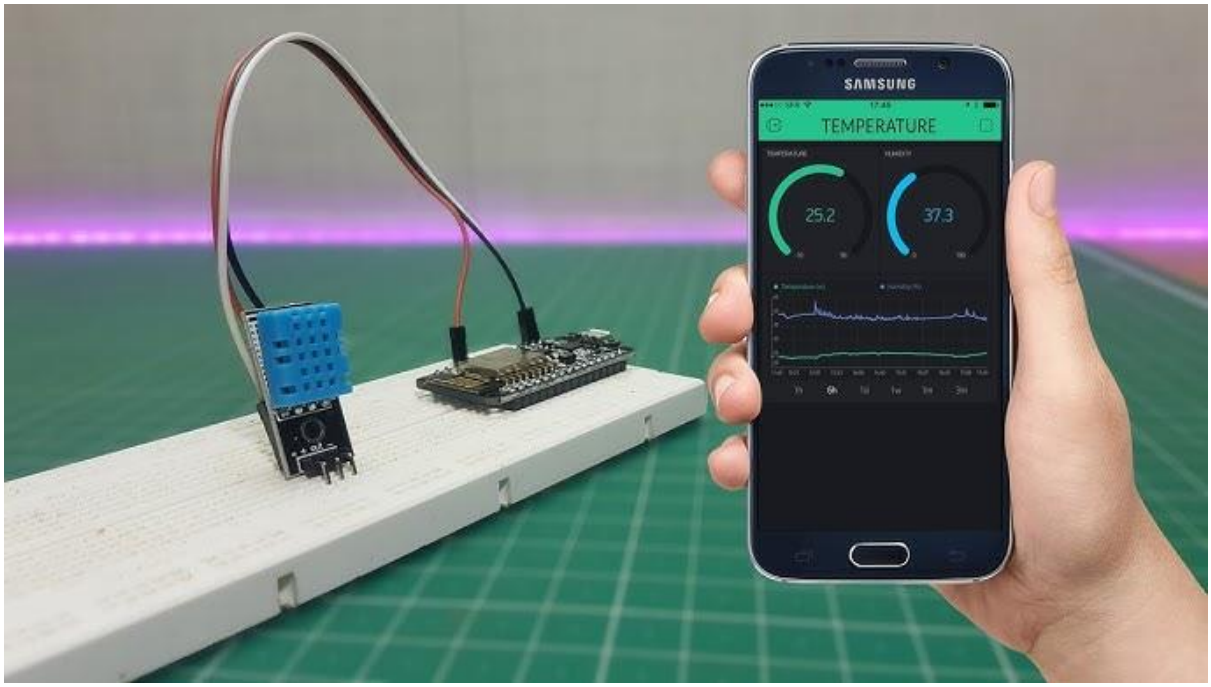
Room Temperature Over Internet With BLYNK



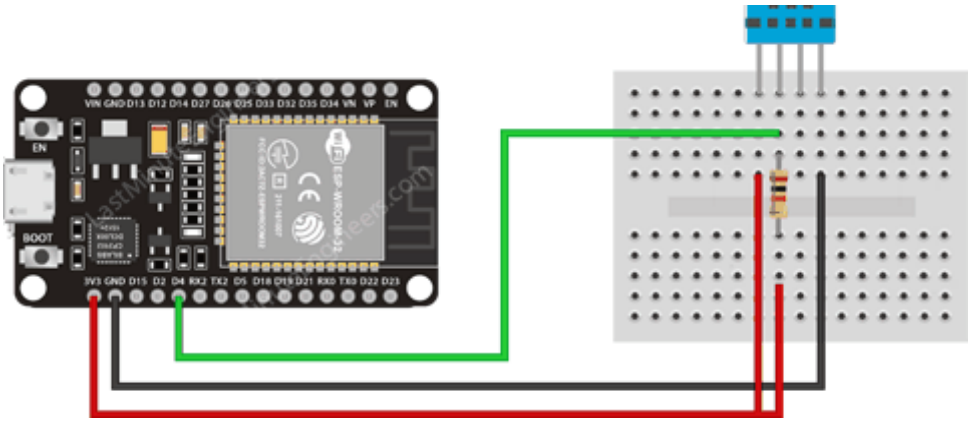
Blynk is an IoT Platform that controls Arduino, Raspberry Pi, NodeMCU, and other microcontrollers over the Internet. The Blynk app can be downloaded from the Google Play Store or Apple Store.

Blynk app provides a digital dashboard where you can build a graphic interface for any IoT-based project by simply dragging and dropping widgets. It's a simple and easy to use IoT platform to build complex applications. Blynk is not bound to some specific board or platform, but it can be used with any microcontroller, provided that it is connected to the internet. Raspberry Pi has inbuilt Wi-Fi, and other microcontrollers like Arduino can be connected to the internet using some Wi-Fi module like ESP8266, etc.

Component Required

1. ESP32
2. DHT11
3. 10k Ohm resistor
4. Breadboard
5. Jumper wires

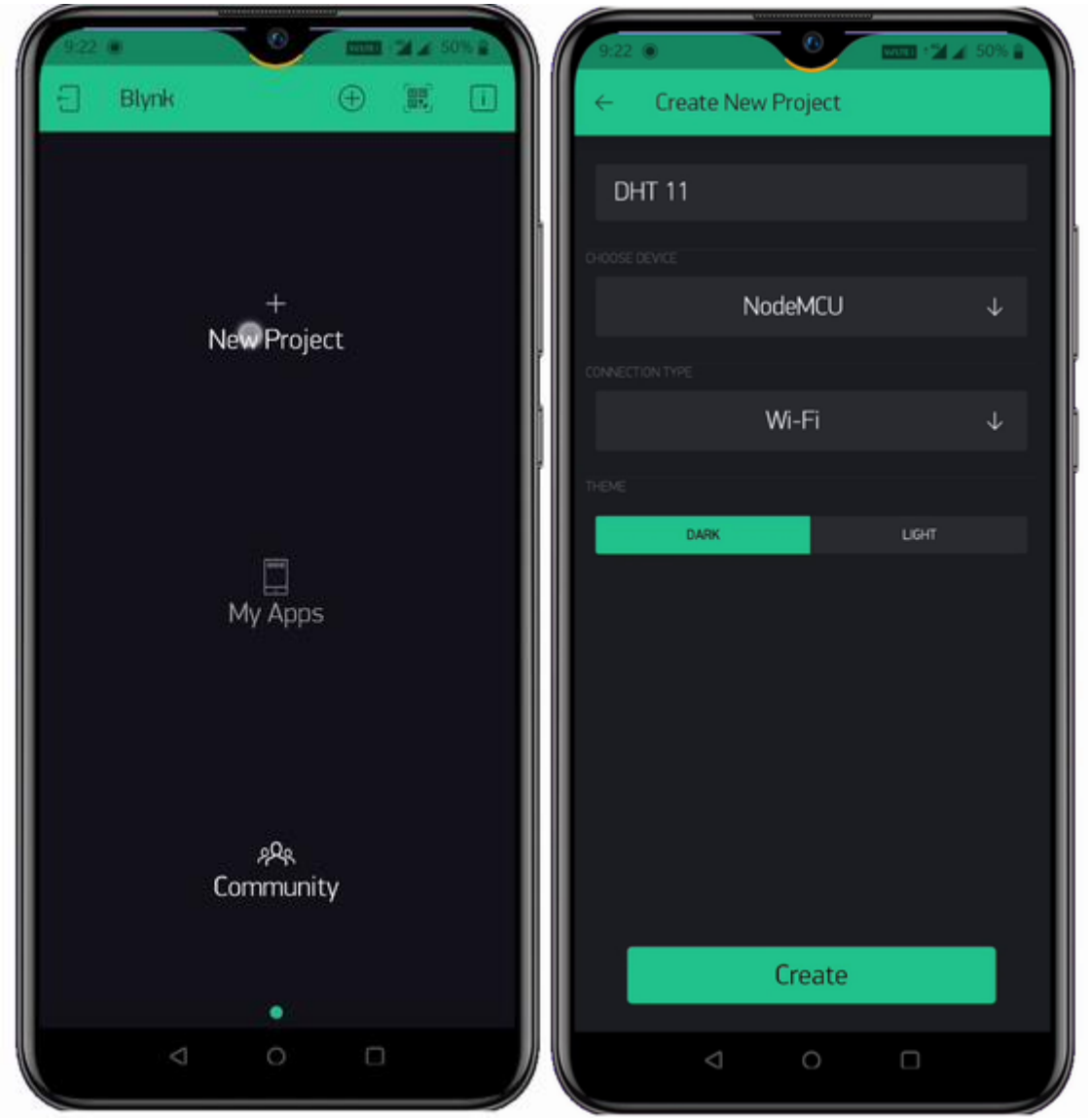
Circuit Diagram



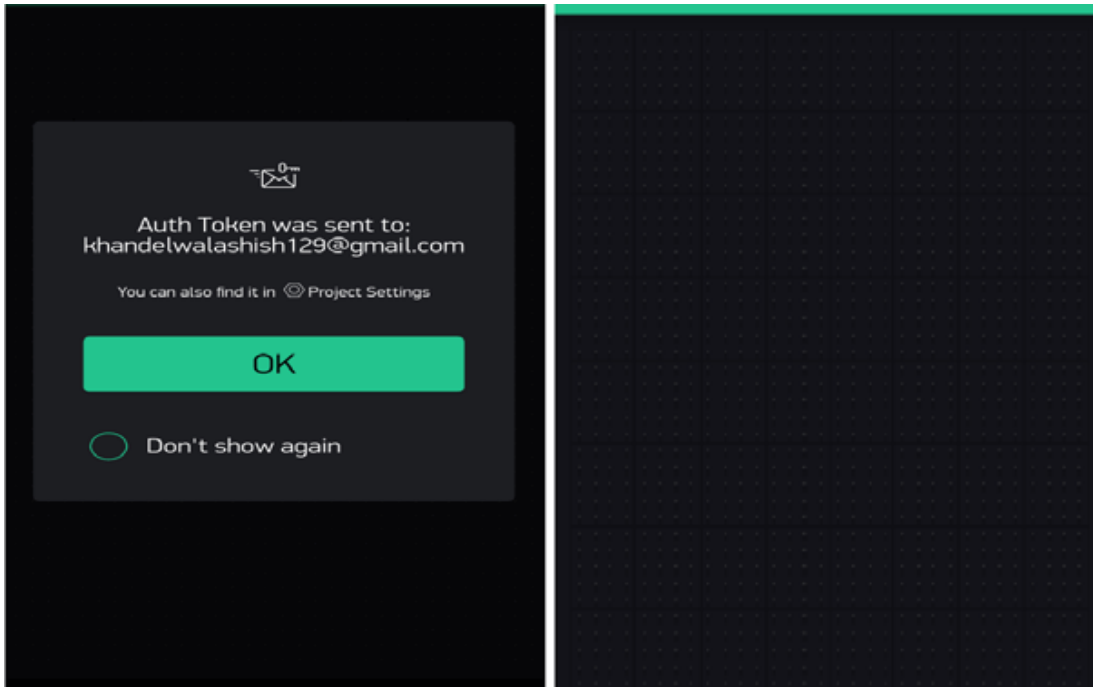
Configuring the Blynk App for ESP32

Following are the steps to configure the Blynk app on your phone and use it for a project:

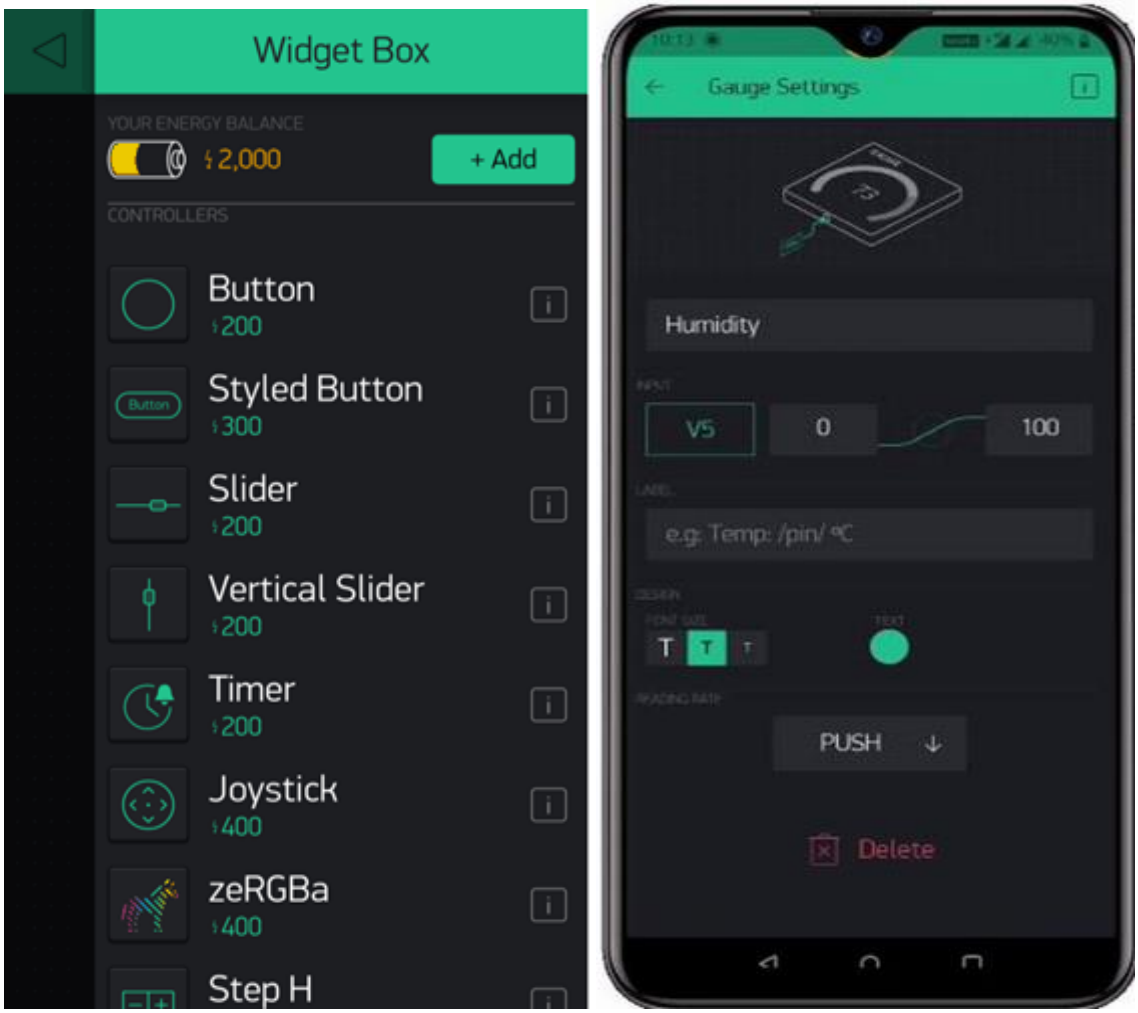
1. First, install the Blynk app on your phone from the Google Play Store.
2. After installing, you must create an account in this app; you may use your current Gmail account.
3. After creating an account, a window will open; in this, click on **New Project.**



4. Now give the project a name according to your choice, and on the device, choose ESP32 Dev Board; on the Connection type, choose Wi-Fi and then click Create.
5. Now, a window will show your authentication token, which you will need later sent to your concerned mail ID. You can open your email to check the authentication key.



6. After clicking on OK, you will find a canvas window.
7. Now, tap anywhere on the canvas to open the widget box. All the available widgets are located here. Now choose a button.



1. Then in the project add a gauge widget and in gauge settings :
2. name it as - Humidity
3. select pin - V5 & change max value from 1023 to 100.
4. Then add one more Gauge for Temperature :
5. name it as - Temperature
6. select pin - V6 & label as - /pin/°C