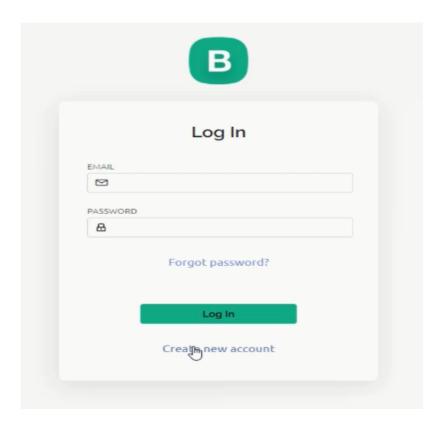
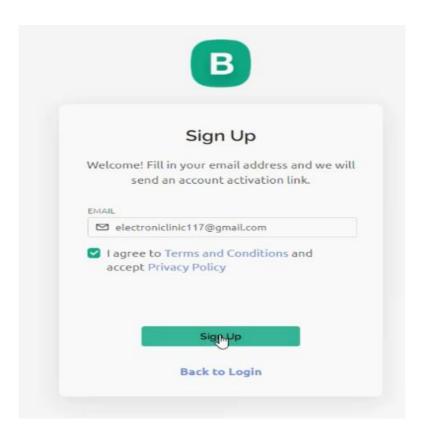
Blynk. Cloud Dashboard Setup:

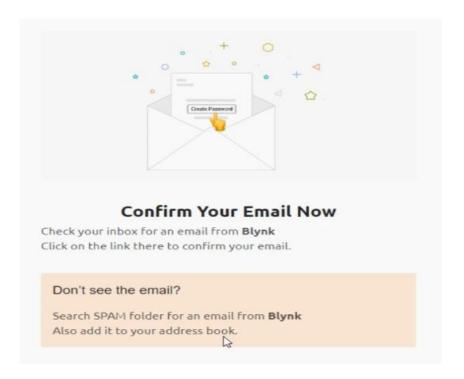
Go to blynk.cloud and register a free account. For this click on the Create new account.



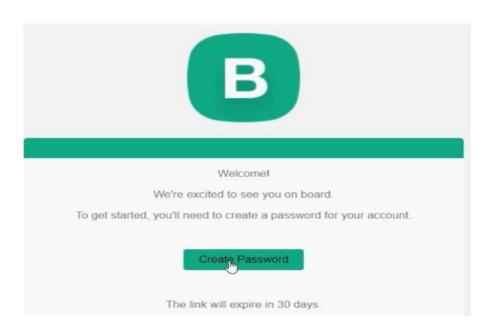
Write your email address, make sure you use the same email on the Mobile Blynk App too. Check the box; I agree statement and click on the **Sign Up** button.



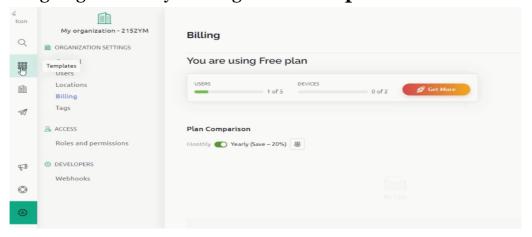
A confirmation email will be sent on your email id.



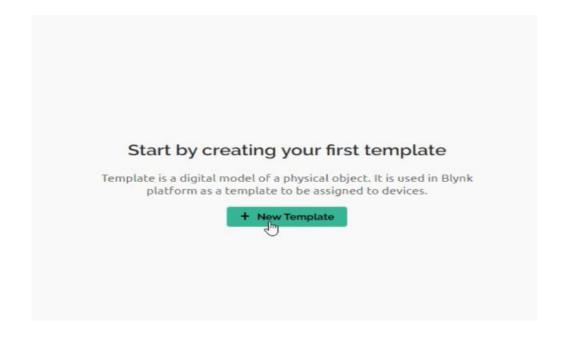
Open the email id, click on the Link sent from the Blynk, and click **Create Password**.



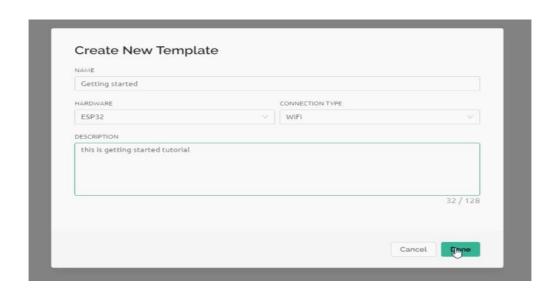
If you want to follow a step by step guide then you can click on the Let's go! Button. It will help you with Hardware setup, IDE, Blynk Library, Code, and Device activation. Free plan supports 5 users and 2 devices. If you want more users and devices then simply click on the **Get More** button. Anyway, I am going to start by clicking on the **Templates**



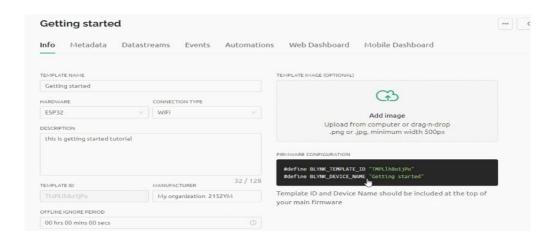
Then click on the **New Template** to create your first Template



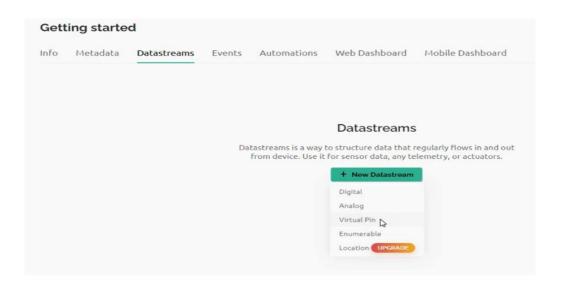
Enter the template name, select the Hardware type, select Connection type, you can also write a description, and finally, click on the **Done** button.



Go to the DataStream's.



On the **Datasteams** click on the **New Datastream** and select Virtual Pin.



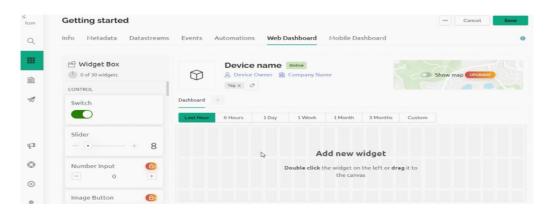
Write the name, select virtual PIN, Data Type, you can also select units, and you can also set the Minimum and Maximum limits. After all the parameters are set then you can click on the Create button.



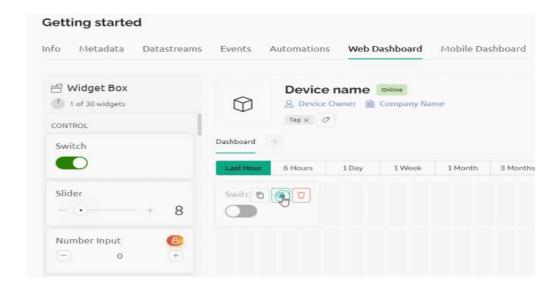
Now again click on the New Datastream button and follow the same exact steps for the Potentiometer. The virtual PIN is automatically incremented. After you have defined all the parameters then you can click on the Create button. Anyway, you can see our two datastreams are ready and now we can click on the Save button.



Now go to **Web Dashboard** and click on the Edit Button.



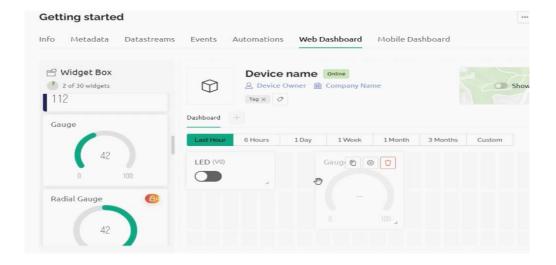
Drag and drop the Switch for controlling the LED. Click on the settings.



Select the DataStream "LED(Vo)", activate the Show on/off labels, If you want you can also change the color, and finally, click on the Save button.



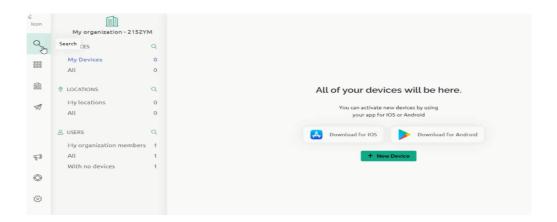
Now, I am going to add a Gauge for monitoring the Potentiometer. The same way you can click on the gauge settings button and select the datastream and do other settings.



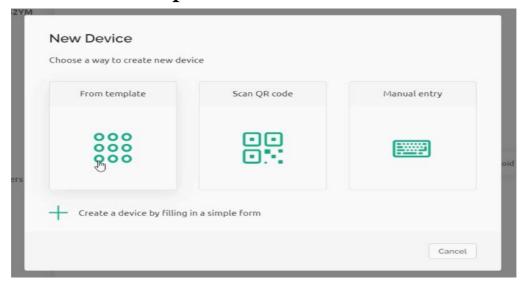
Once you have added all the widgets then click on the Save button.



Click on the Search, then click on **New Device**.



Click on **from template** to create a new device.



Select the template we just created, write the device name, and finally click on the Create button.

New Device		
Create new device b	y filling in the form below	
TEMPLATE		
Getting started		~
DEVICE NAME		
Getting started		
	Cancel	Create

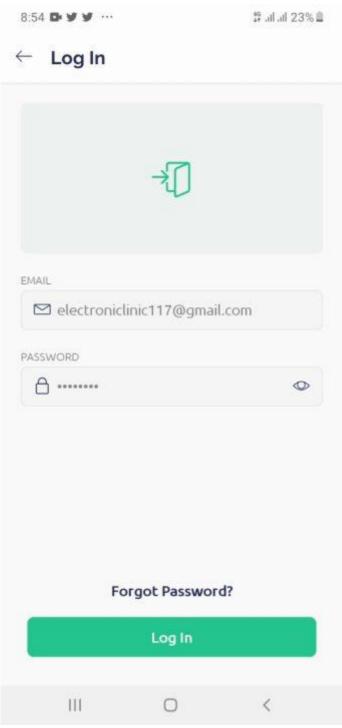
Dashboard is ready, now use this button to control the LED and Gauge for monitoring the Potentiometer.



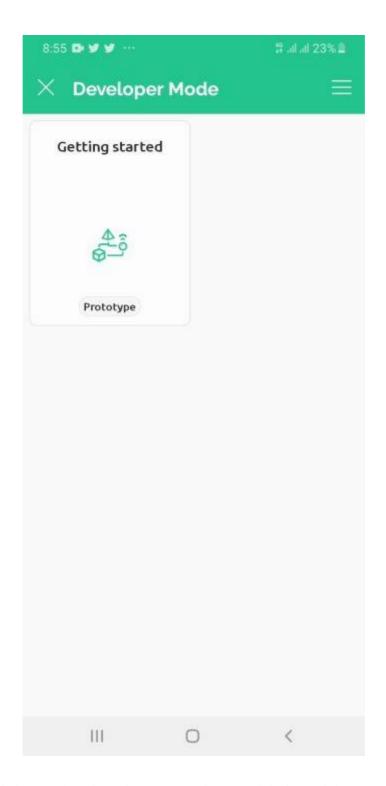
Now, we have to use the Template ID, Device Name, and Authorization Token in the programming. In the image BLYNK_TEMPLATE_ID, the above, you can see BLYNK_DEVICE_NAME, and BLYNK_AUTH_TOKEN on the right side. We are going to use these in the programming. Copy the TEMPLATE_ID and paste it next to the BLYNK_TEMPLATE_ID. Repeat the same steps for the Authorization Device Name and Toke

Blynk IoT Mobile Dashboard:

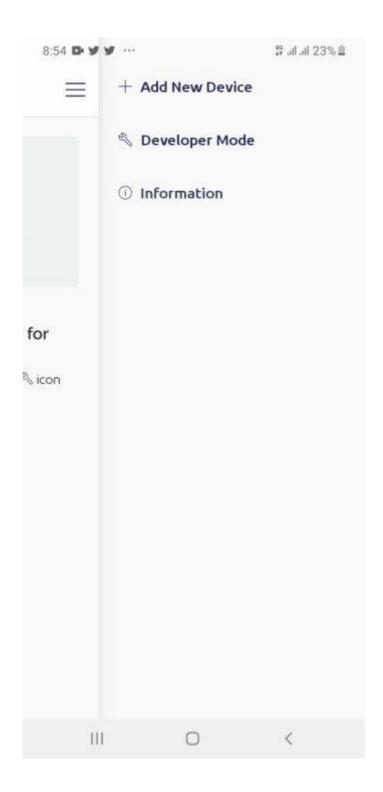
If you also want to use your cell phone for controlling and monitoring different devices and sensors then you will need to install the **Blynk IoT App**. Go to the AppStore and search for the **Blynk** App make sure you install the **Blynk IoT**. Once the Blynk IoT App is installed then login with the same Gmail id and password.



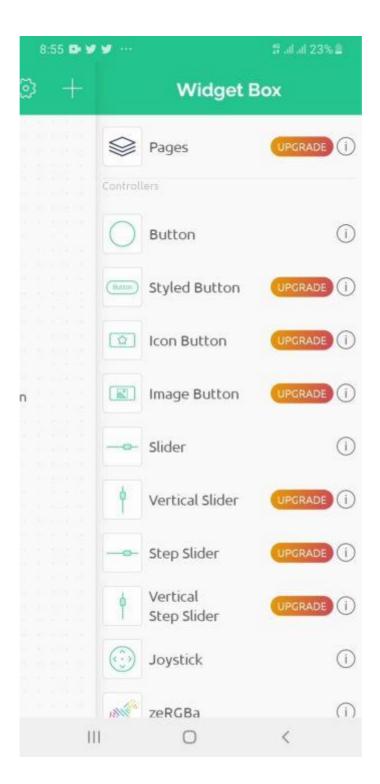
Then click on the **Getting Started** which we created in the **Web dashboard**; it will appear in the **Blynk mobile app**.



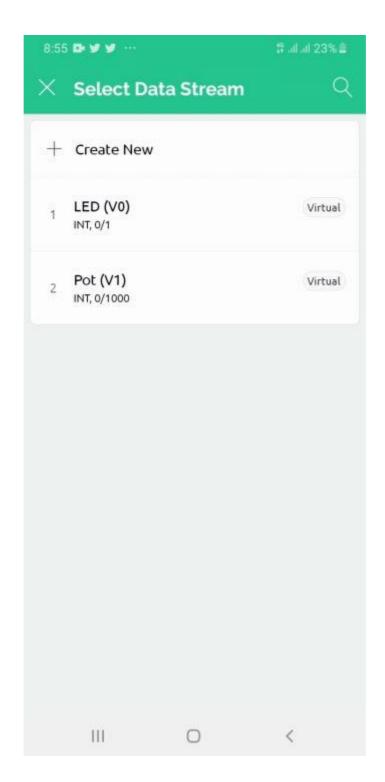
Then click on the developer mode to add the widgets.



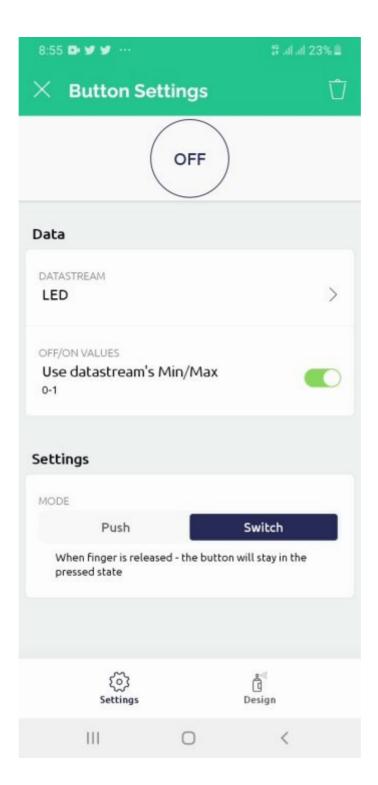
Then click on the widget box and add a button.



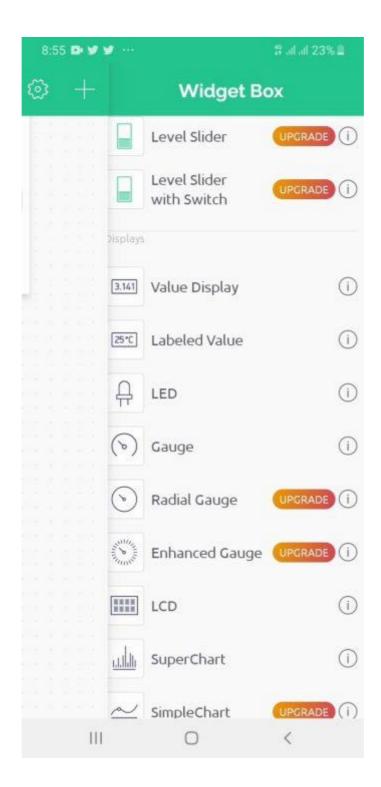
Then click on the button and link the variable LED variable. So click on the LED (Vo).



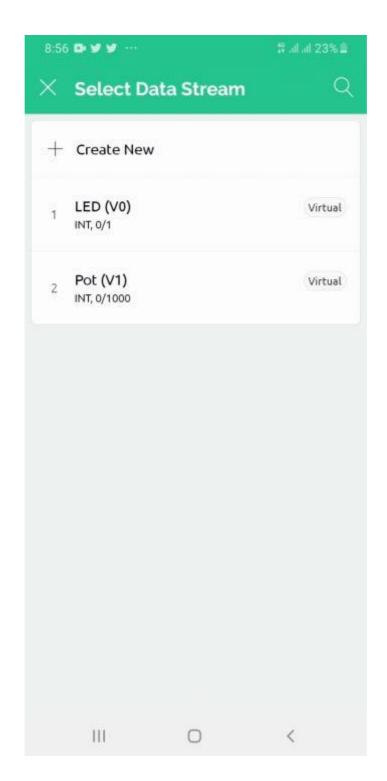
Under the setting, select switch mode.



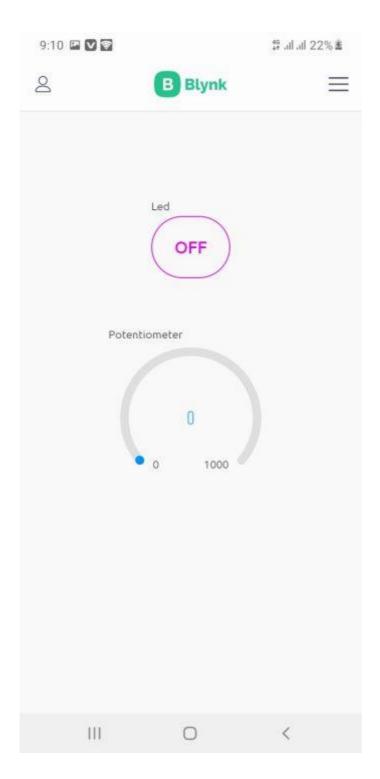
Then again click on the add widget button and this time add a Gauge.



Then link the POT (V1) variable with it.



My Blynk IoT App is ready.



use this Mobile app to control the LED and for monitoring the Potentiometer. As I have said earlier, instead of using the LED you can use High ampere relays and MOSFETs for controlling high Amps loads and the same thing applies to the Potentiometer. You can use any digital or analog sensor.