

Blynk

The screenshot shows the Blynk dashboard for a device named "FinalProject Device", which is currently "Offline". The user is logged in as "Bar" from the organization "My organization - 5479QQ". There is an "Add Tag" button. The dashboard has tabs for "Dashboard", "Timeline", "Device Info", "Metadata", and "Actions Log". A time filter bar shows options: "Latest", "Last Hour" (selected), "6 Hours", "1 Day", "1 Week", "1 Month", "3 Months", "6 Months", "1 Year", and "Custom". Below the filter bar, there are four widgets: 1. A "Strips" slider widget with a value of 10 and a "+" sign. 2. A "Speaker" toggle switch widget, currently turned off. 3. A "Temperature Sensor" label widget showing "22 °C" on a green background. 4. A "Humidity Sensor" label widget showing "60" on a red background.

This our Blynk dashboard contains the following 4 widgets:

1. Slider – for controlling the number of plants should be watered.
 2. Switch – turn on/off the speaker alarm.
 3. Temperature Label – display the current temperature in the greenhouse.
 4. Humidity Label – display the current temperature in the greenhouse.
- Both labels have green color if the temperature/humidity doesn't exceed the threshold. Once they do exceed, the label changes its color to red.

← FinalProject ... Edit


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Q Search datstream

Id	Name	Alias	Color	Pin	Data Type	Units	Is Raw	Min	Max	Decimals	Default Value
4	Integer V0	Strips	Orange	V0	Integer		false	0	12	--	0
5	Double V1	Temperature Sensor	Light Green	V1	Double	°C	false	0	100	#.0000	
6	Double V2	Humidity Sensor	Green	V2	Double		false	0	100	#.0000	
7	String V3	MakeUrlParams	Purple	V3	String		false			--	
8	Integer V4	Speaker	Blue	V4	Integer		false	0	1	--	0

Our Blynk dashboard contains the following 5 data streams:

1. V0 – virtual pin that passes the number of plants that should be watered (number of lights in strip) from Blynk to the esp32.
2. V1 – virtual pin that passes the information from the temperate & humidity sensor to the temperature label.
3. V2 - virtual pin that passes the information from the temperate & humidity sensor to the humidity label.
4. V4 – virtual pin that passes the information of turn on/off the speaker alarm from the Blynk dashboard to the esp32.
5. V3 – a special virtual pin. We used this one for concatenation the information of water sensor and temperature& humidity sensor for passing a valid params the URL, sent from the Blynk to Make.com (Because of using free version of Blynk, we do not have option to send the parameters one by one, so we created a concatenated string of all of the three parameters). 2 relevant pictures in the following page.

Webhook name	Status	Trigger event	Last triggered	Attempts	Actions
 Device Sends Data To Datastream	Enabled	Device Datastream Update	4:25:05 PM Today	181	

Device Sends Data To Datastream

WEBHOOK TRIGGER EVENT

Device Sends Data To Datastream

Select a system event that will trigger webhook.

WEBHOOK NAME

Device Sends Data To Datastream

DEVICE

FinalProject Device

DATASTREAM

String V3 (V3)

WEBHOOK URL

https://hook.eu2.make.com/k3ly7g15v4w8p6cejveqrf7arls7rvw

REQUEST TYPE

GET POST PUT DELETE

Query parameters (optional)

humidity device_pinValue

+ Add row

Authorization Method (optional)

Test webhook Cancel Save Webhook