**Key Word I use :**

**Device :** index of esp32 which you choose ( 0 < device < 2^32-1)

**sensor :** which give data of enviroment ( orther microprocessing, sensor DHT21,...)

**euipment :** which you can control througth send command to server ( didital , non-digital)

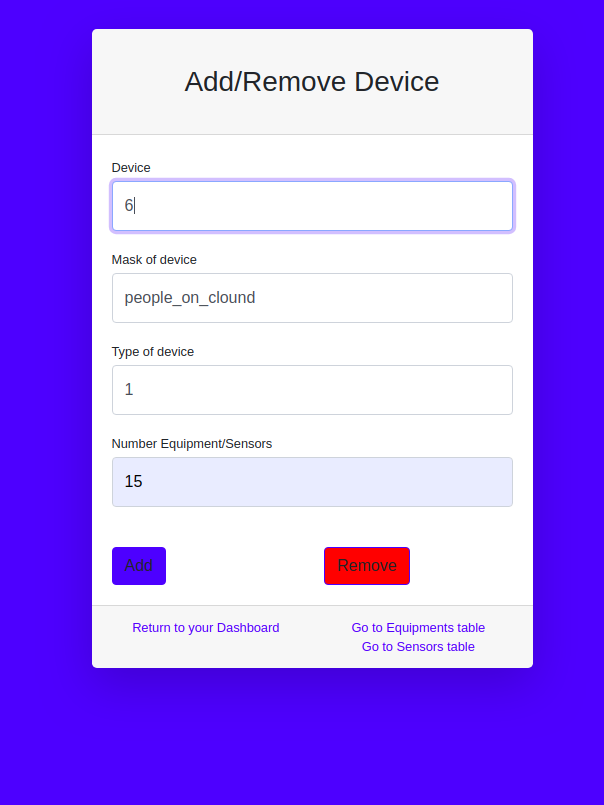
**ID :** Identify of unique User , User can have many device but only 1 ID, remember

**Protocal I use :** http

**Type Of devide :** I divide into 2 type ( can be expanse in the future ) , basic is : 0 ( to get command and do it ) and 1 ( to send data to server ). It is GET and POST in HTTP

**Device type 0 manage Equipment ( receive command),device type 1 manage Sensor ( read data).**

**ConFig** : it help you announce your device and add it to you profile



@param:

+ Devide : this is the index device you config for ESP32 ( 0,1,2,..,2^32-1)

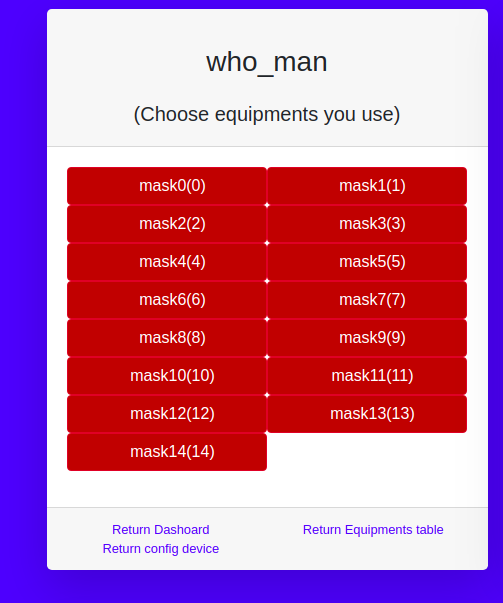
+ Mask of Device : to can be easily release esp32(Ex: chicken,..)

+ Type of device : 0 or 1

+ Number Equipment/sensors: now , just 20 max on 1 device( if you choose type 0 ( read Block document below)

**First, Go to Device type 0 : manage Euipment**

**+** Read mean this Equipment is disable ( just config) , greem mean enable

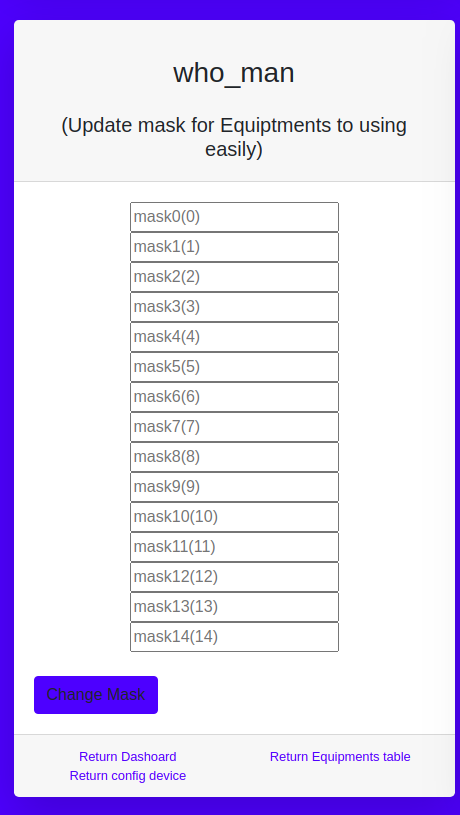


+Red mean it is none-Digital ( 0-100% mean 0-255 in esp32)

+Greed mean it is Digital pin

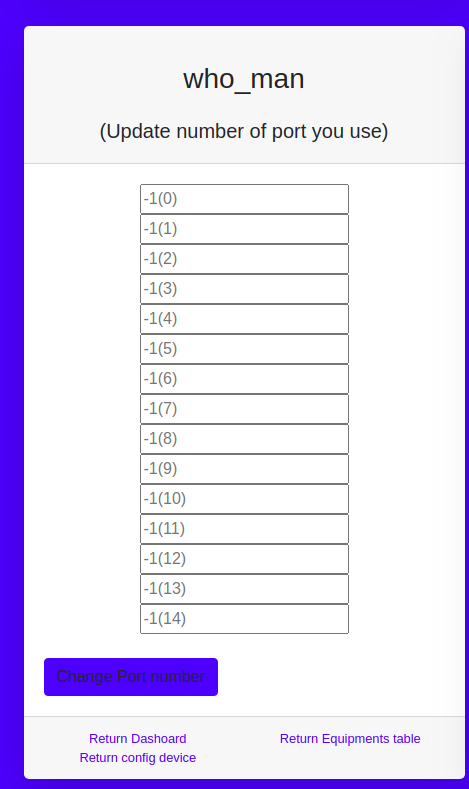


Every Pin need to be named ( ex : control\_fan,Controll\_ligth\_living\_room)

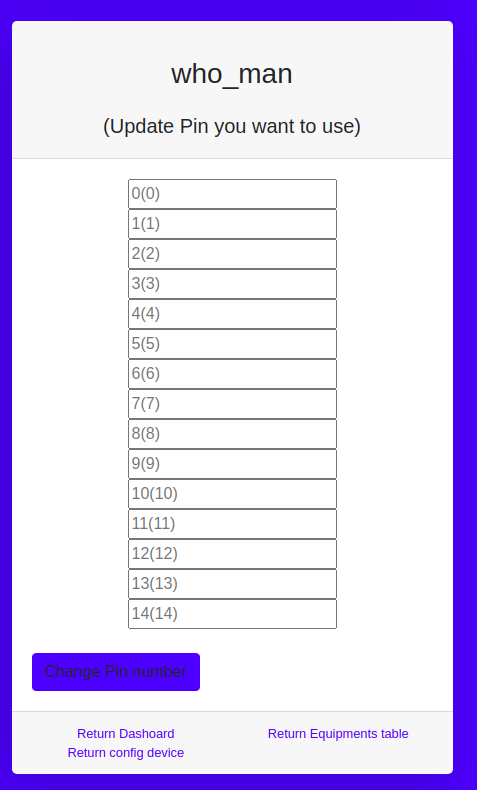


Mask Port: it mean Name of “Block”

Number Port mean index of Block ( like index of device)



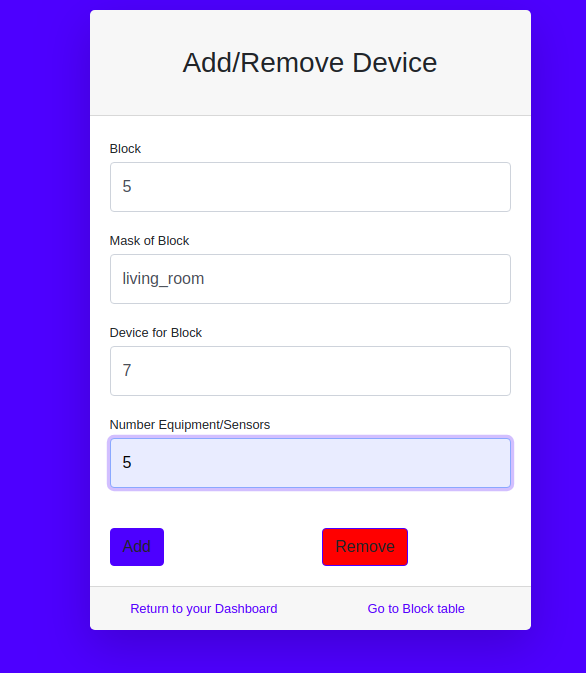
Finally, this is pin you config on esp, just choose pin you program on esp32, it make esp32 and sever not belong together



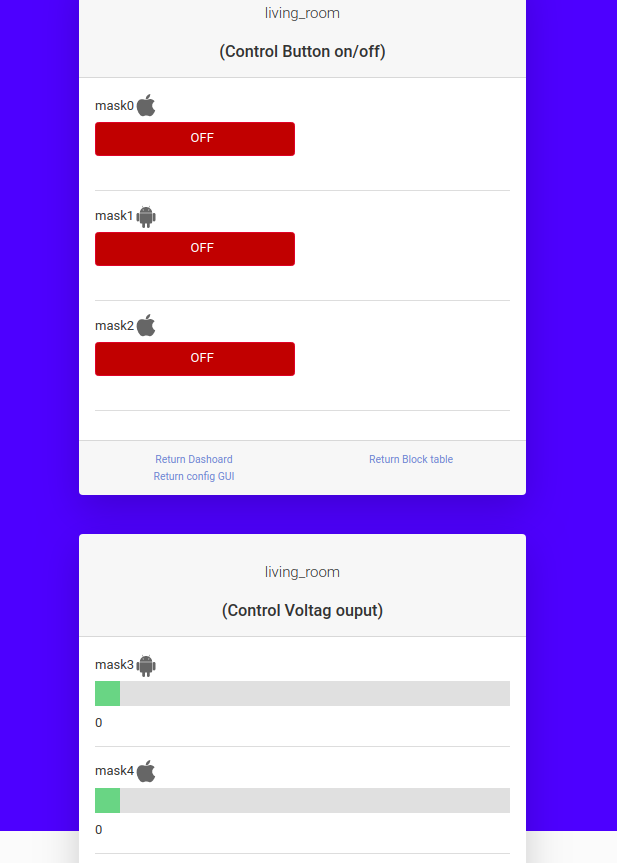
**Block :** in the House, or garden , or anything large, you need to divide it into some part smaller. For Example, in the house, you will have bath room, lising room, … in the garden, you will have many small land to plant a lot kind of tree,..

With my Server, Block help you re-map pin of esp ( it mean you can use Pin from orther esp to controll Equipment in Block) . when 1 esp or it’s Pin is broken, just config pin on server and you can continute to controll it, do not remove device and add orther device again.

You will bind a Block with device you want



You can gen many equipment in Block, just need to use, too many make your screen look like a matrix



Please , read pin\_map\_espClient\_get.docx and pin\_map\_espClient\_post.docx to know how many pin you can you, you can config type of Equipment again to change it from Non-digital to digital easily

+ Icon apple mean this Euipment is Disable, need to turn on it con config->device (thich bind with block)

+ Icon Android mean this Equiptment is Enbale