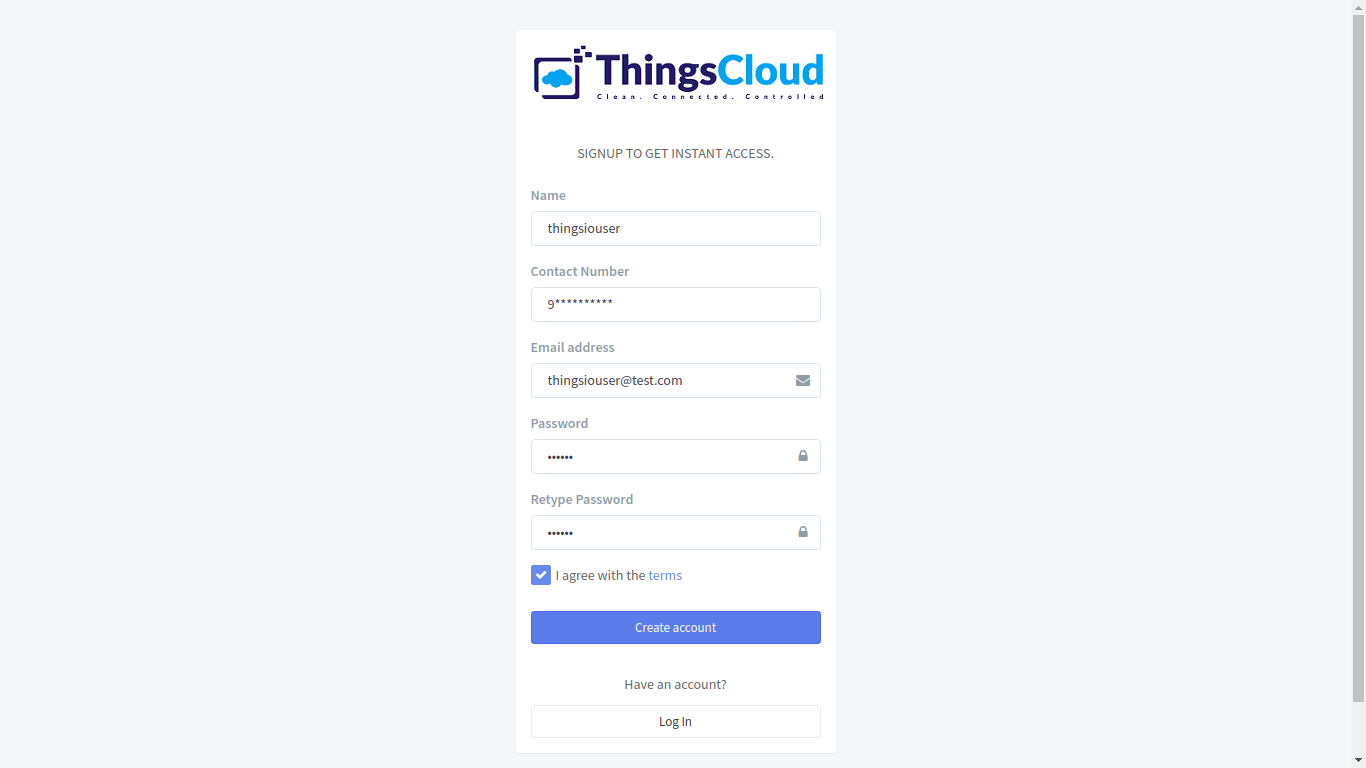
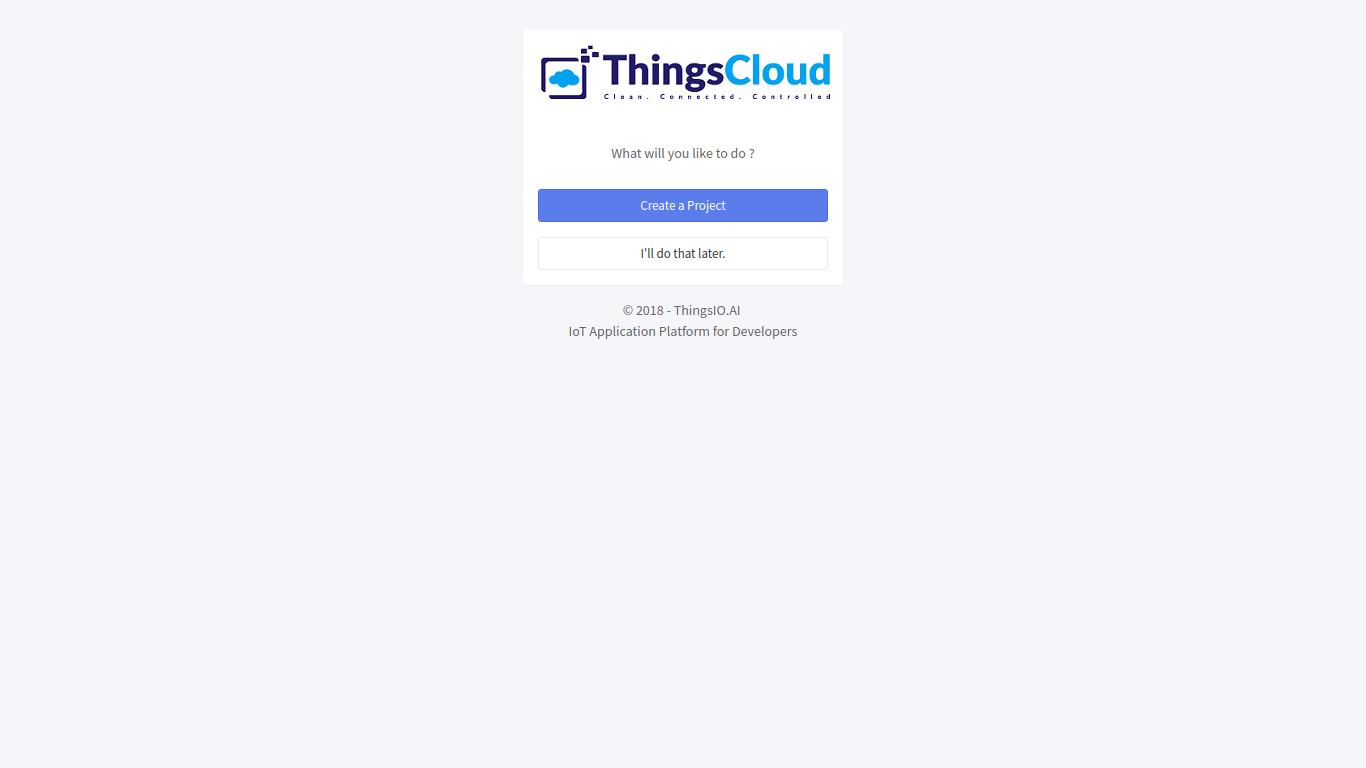
**Getting started with** [**ThingsIO.AI**](http://thingsio.ai/)

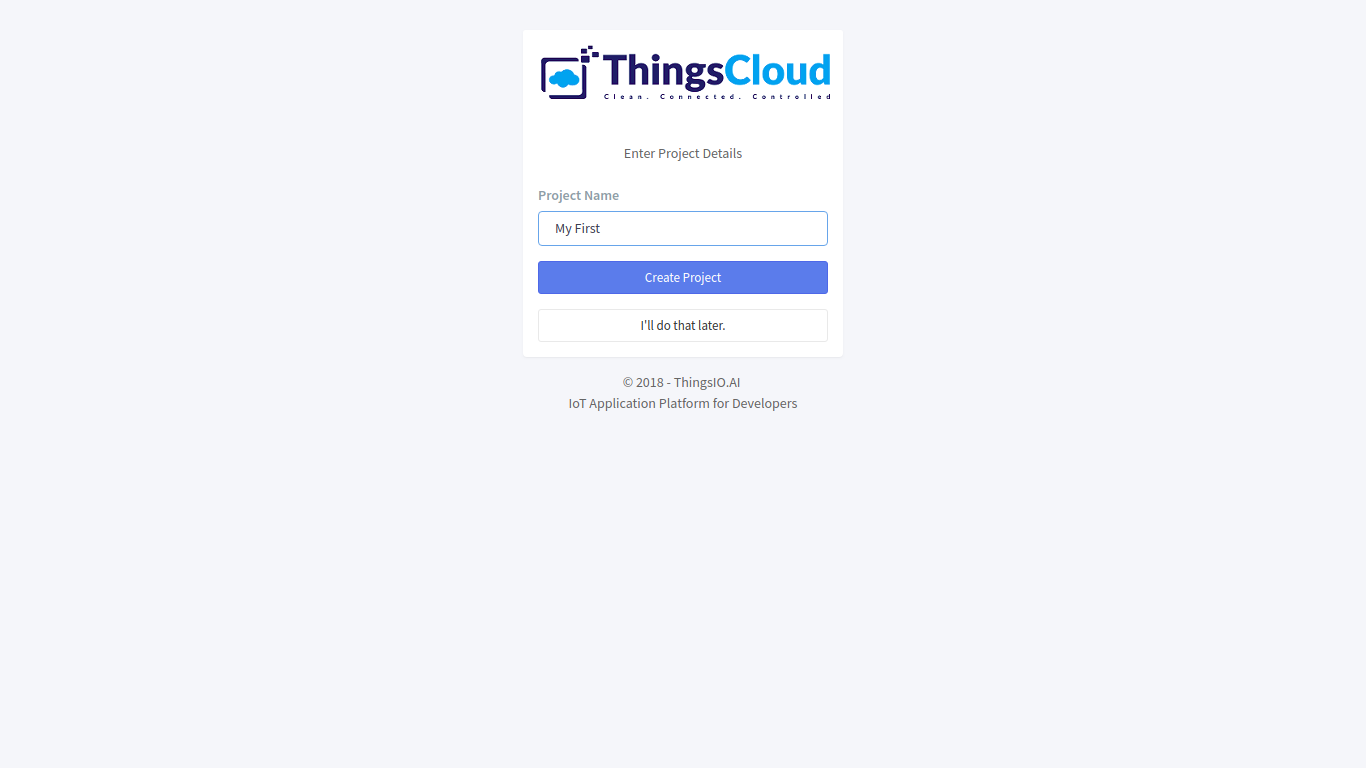
1. Register the account in [**http://thingsio.ai/#/register**](http://thingsio.ai/#/register)**.**



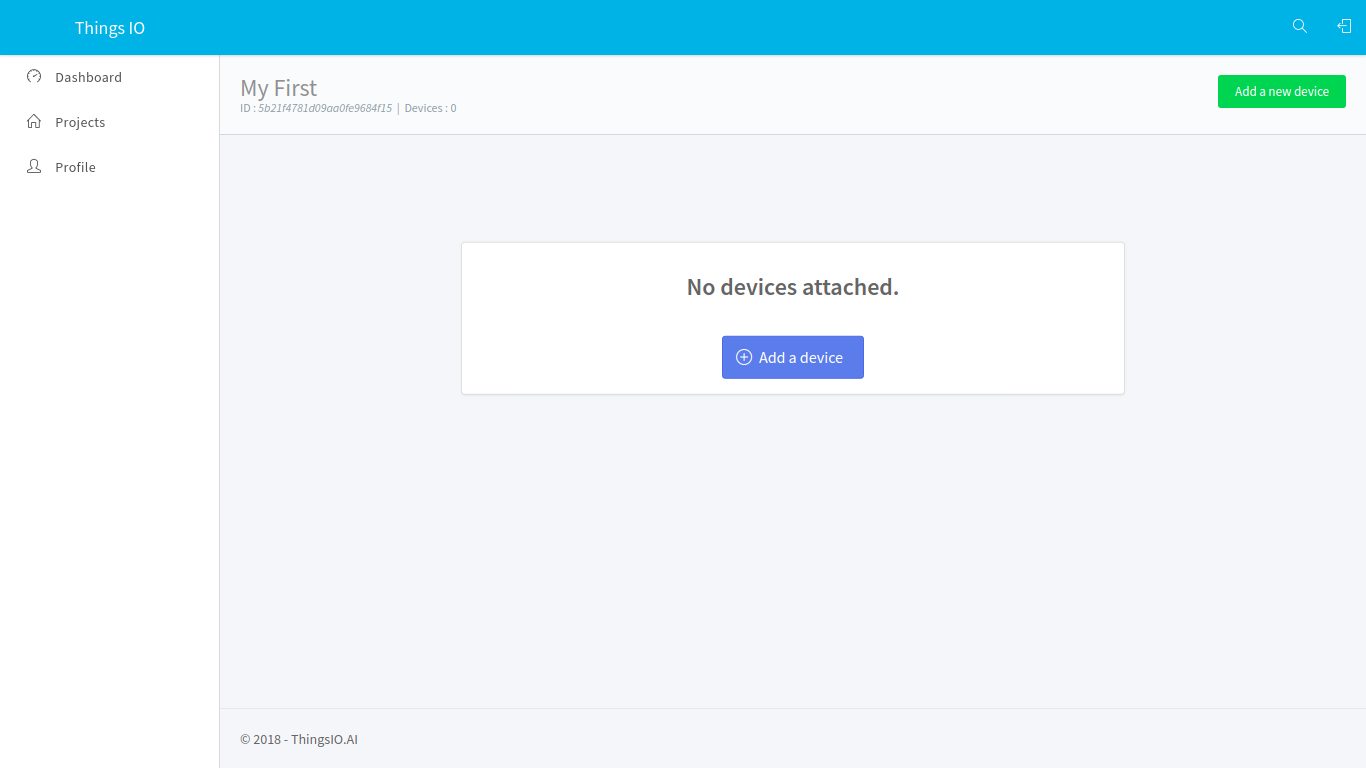
1. Create a project:



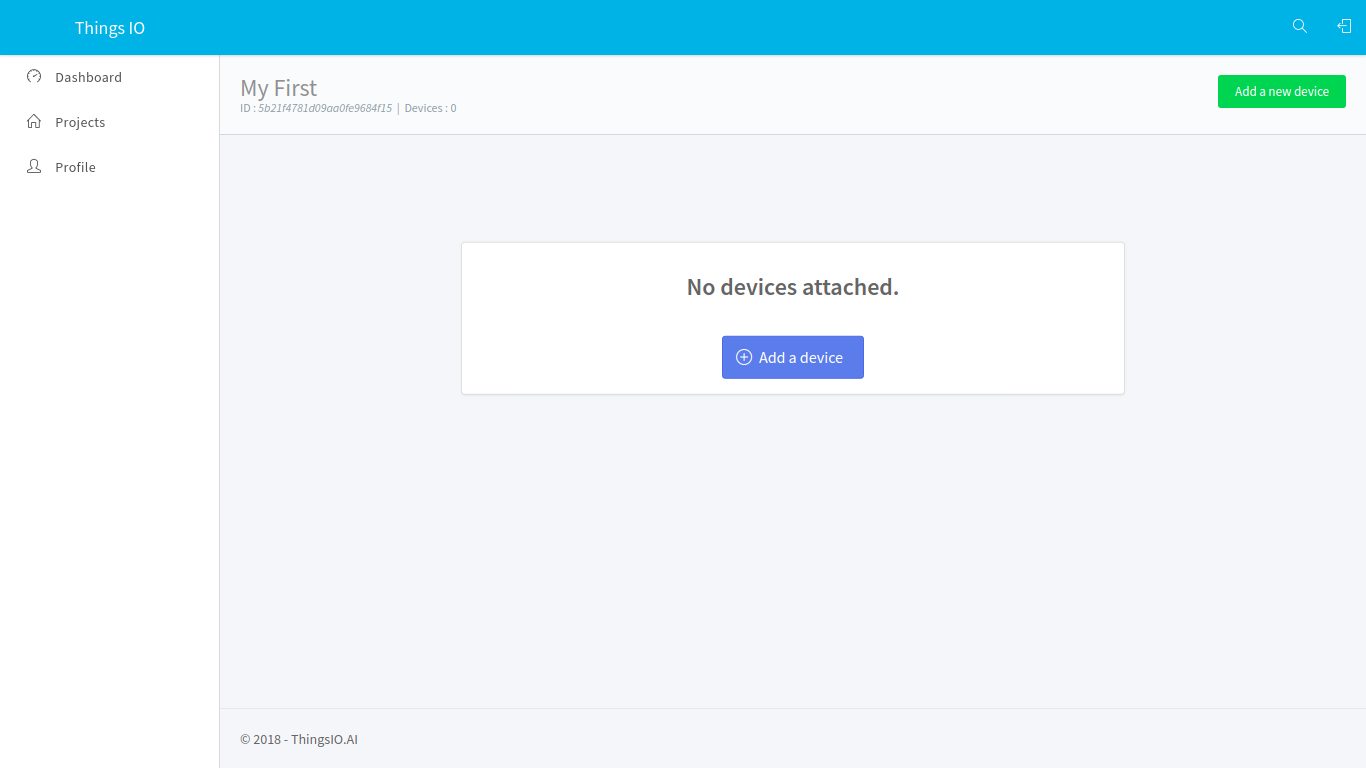
1. Write the name of the project:



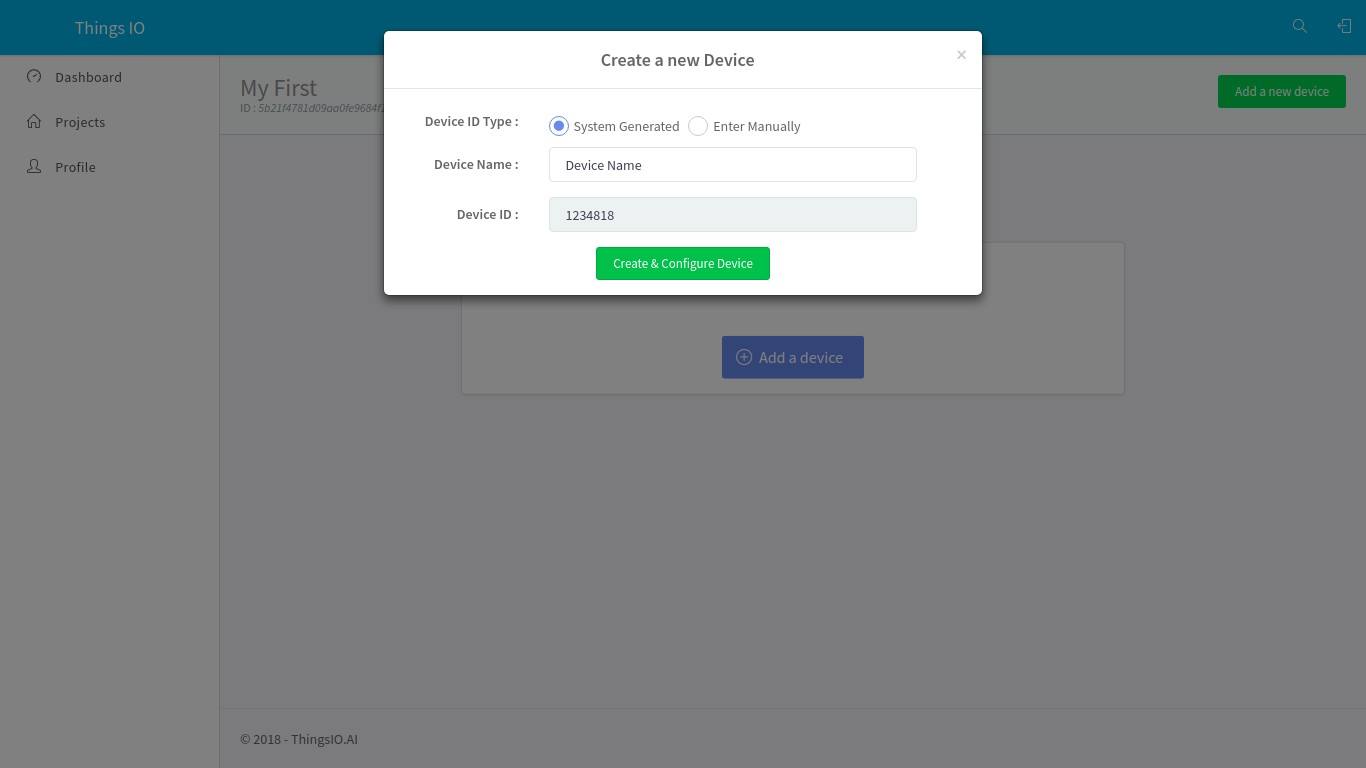
1. Now, you will be on the project dashboard of your account. Click on the new project option:



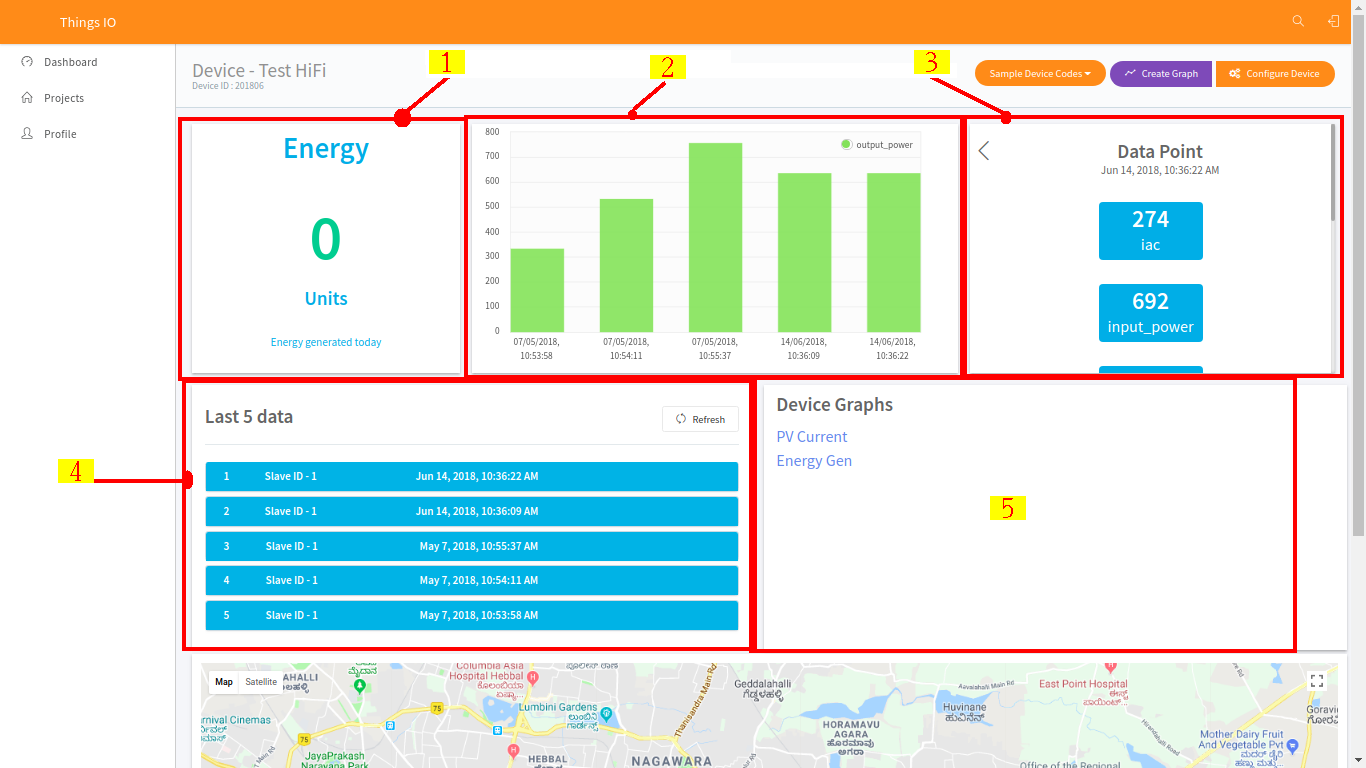
1. Click on the add a new device option:



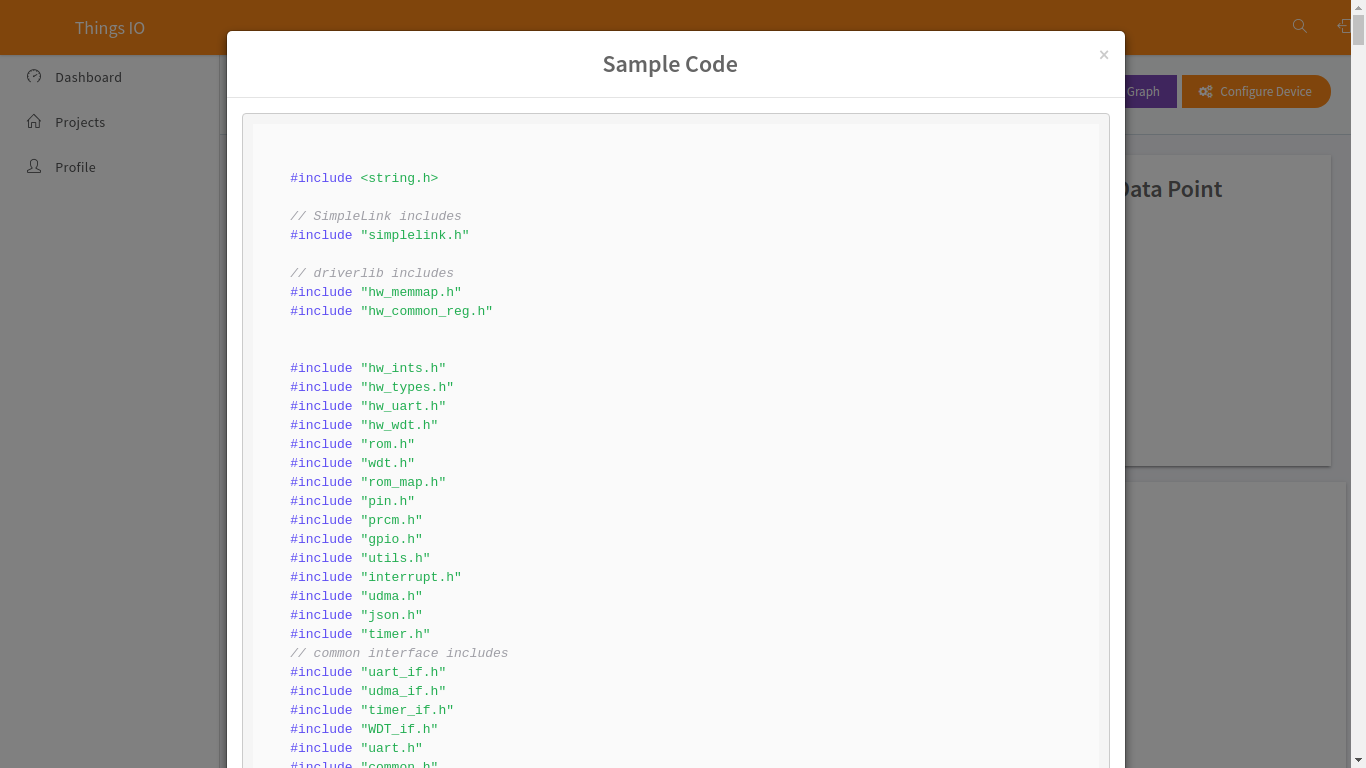
1. Enter the device name and click on the create and configure device:



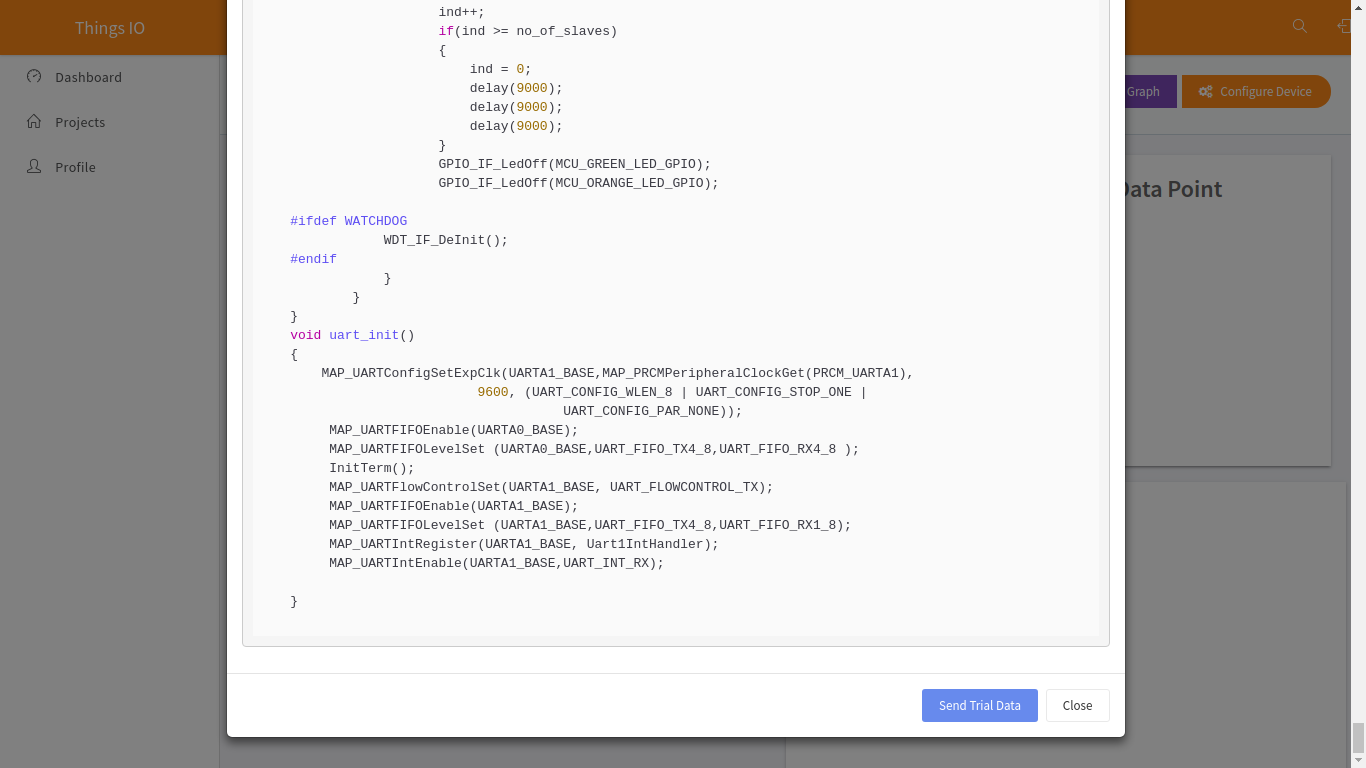
1. You will be on your device dashboard:



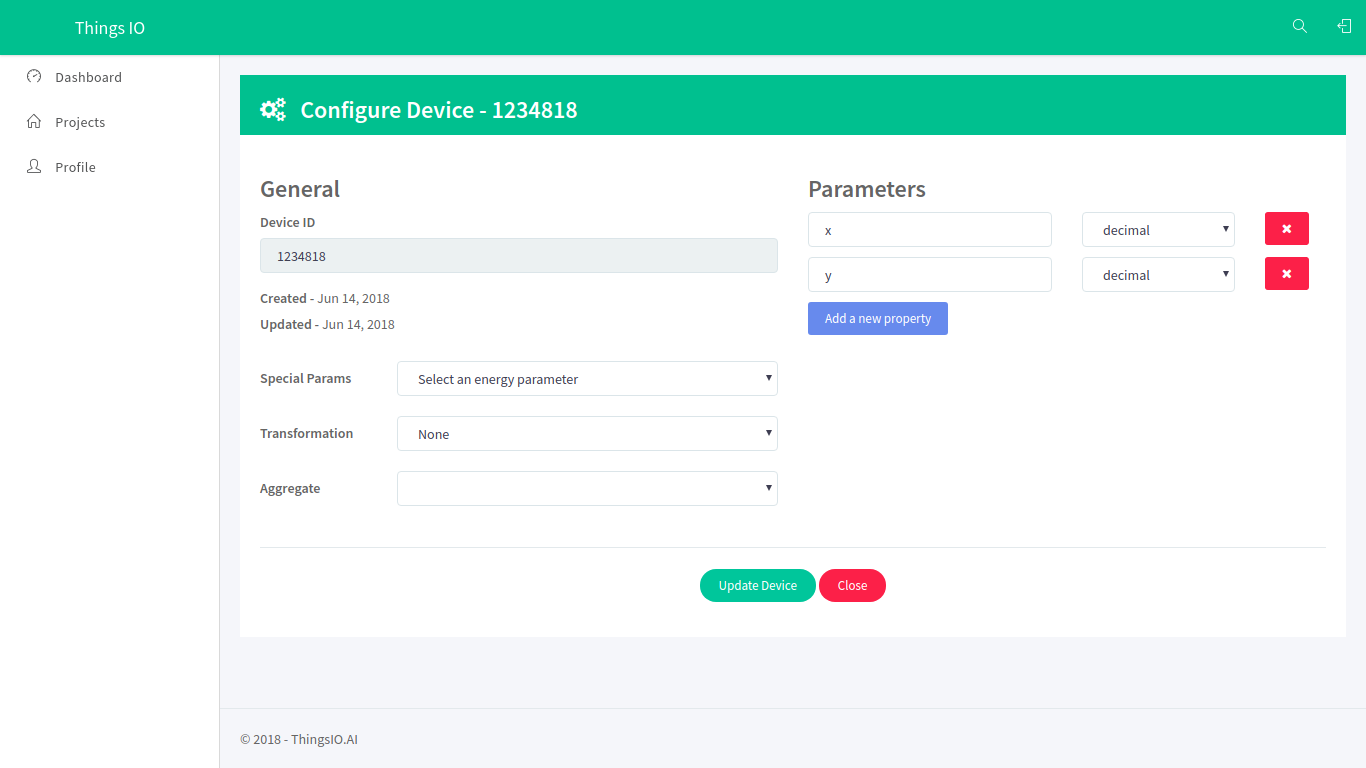
1. Track your device’s special parameters here. This can be set in device configuration (default to null).
2. You can see your real time and special parameter’s graph.
3. You can see your all data points.
4. You can see here your last 5 data points.
5. You can see here all the list of created graphs.
6. Go in sample device code options and click on the CC3200. You will get the sample code from there and paste into your CCS.



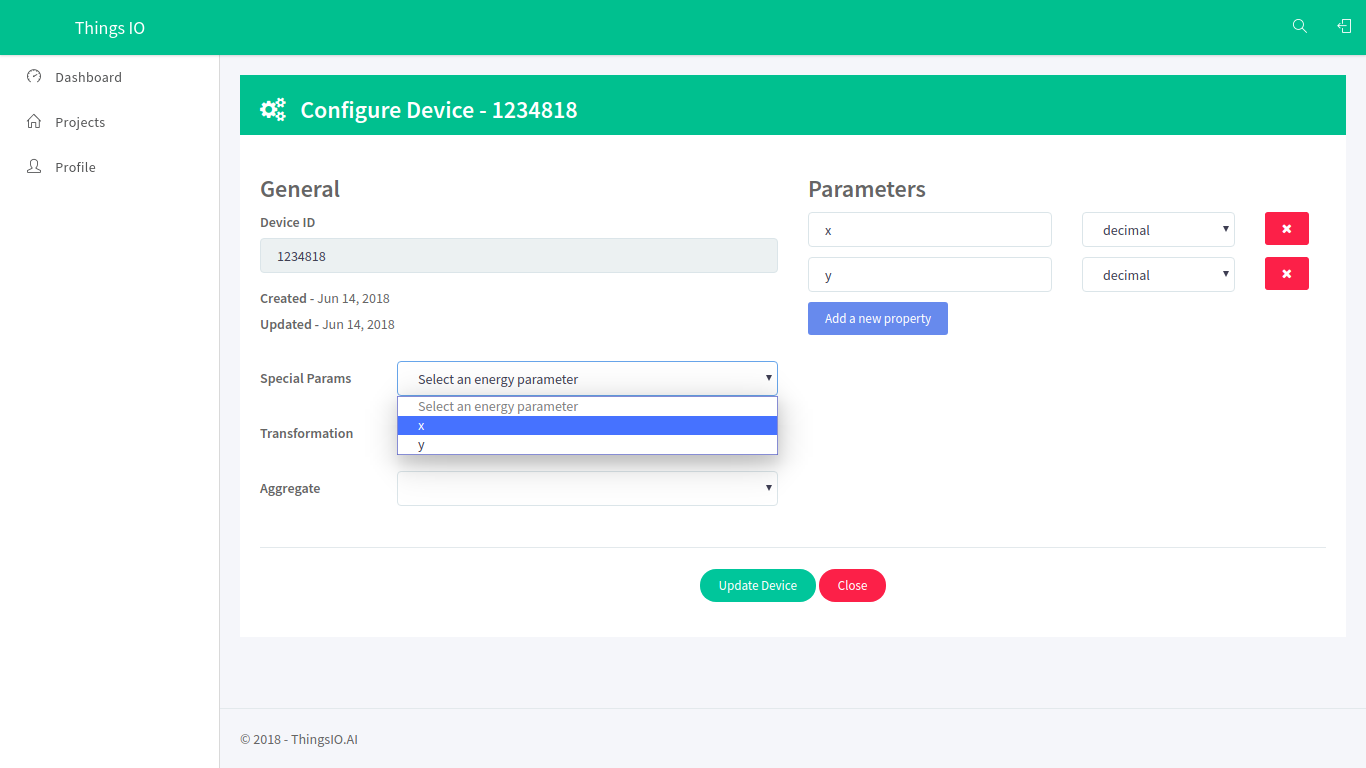
1. Click on the “Send trial data” to send a trial data to the server:



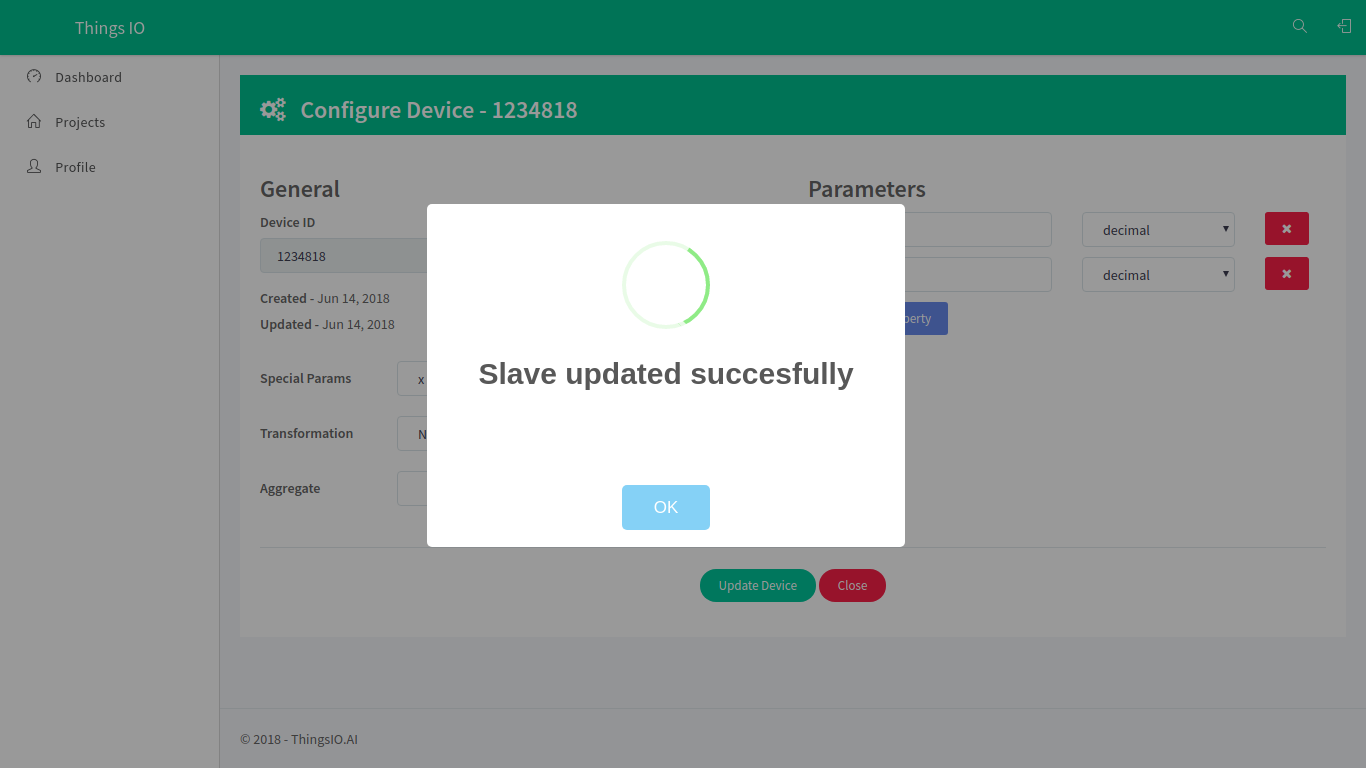
1. Now, click on the configuration device option.



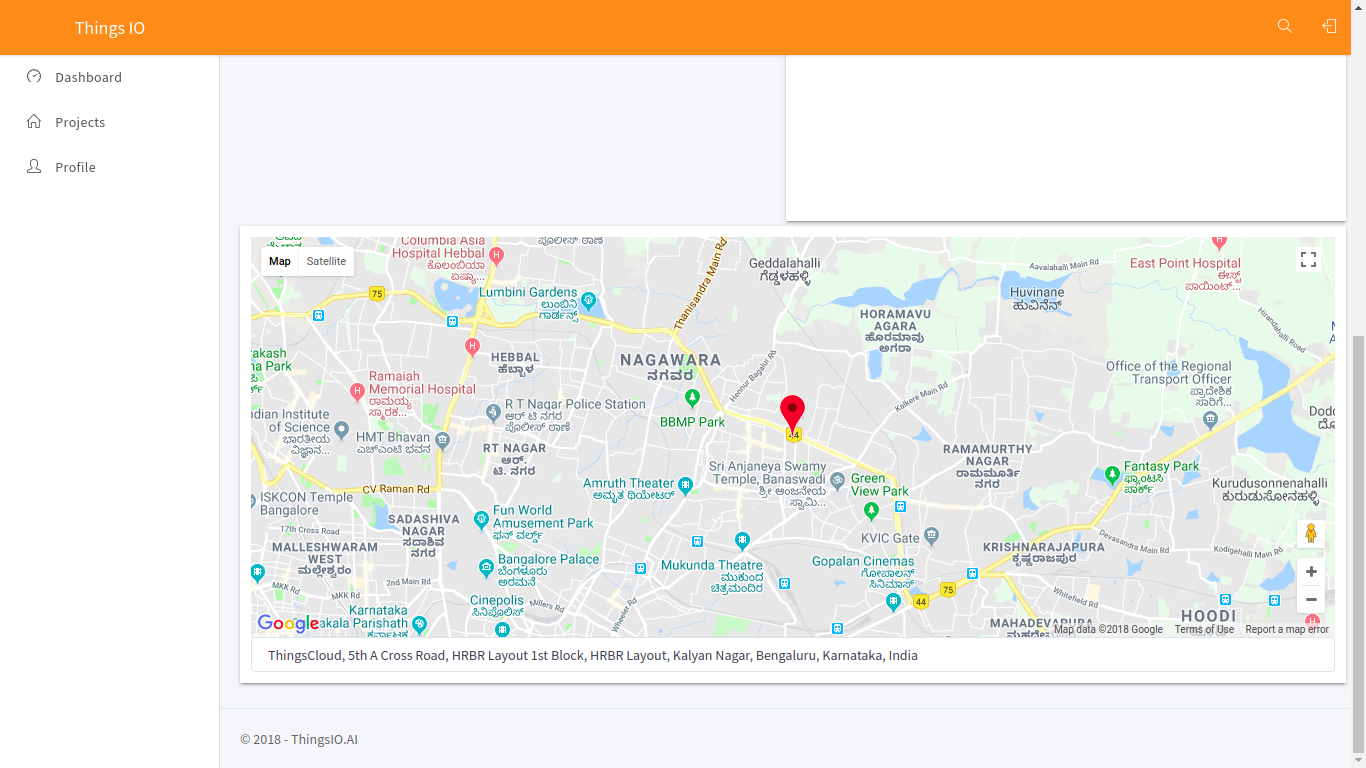
1. You can set the special parameters (this is tracked on the device dashboard) & transform it accordingly and add new parameters (Parameters are updated automatically as you send them from your device).



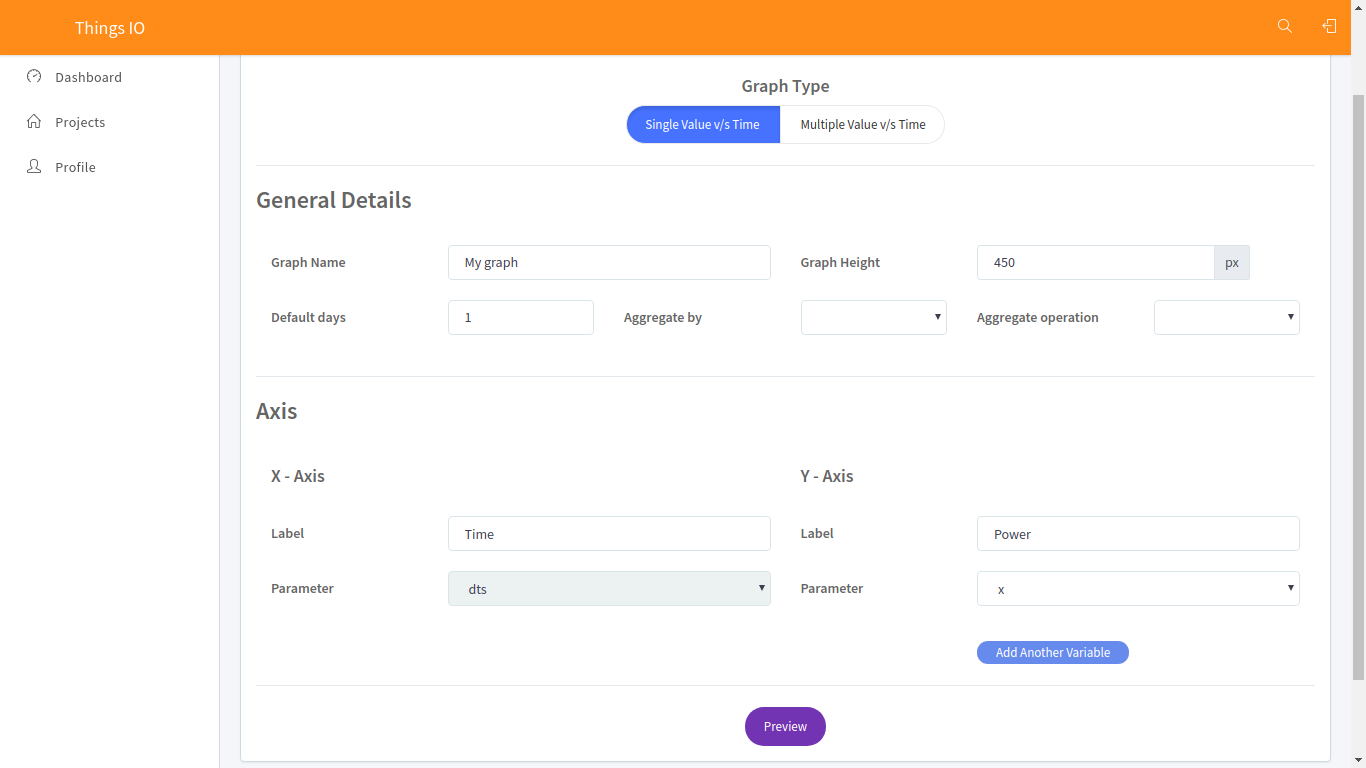
1. Click on the update device option:



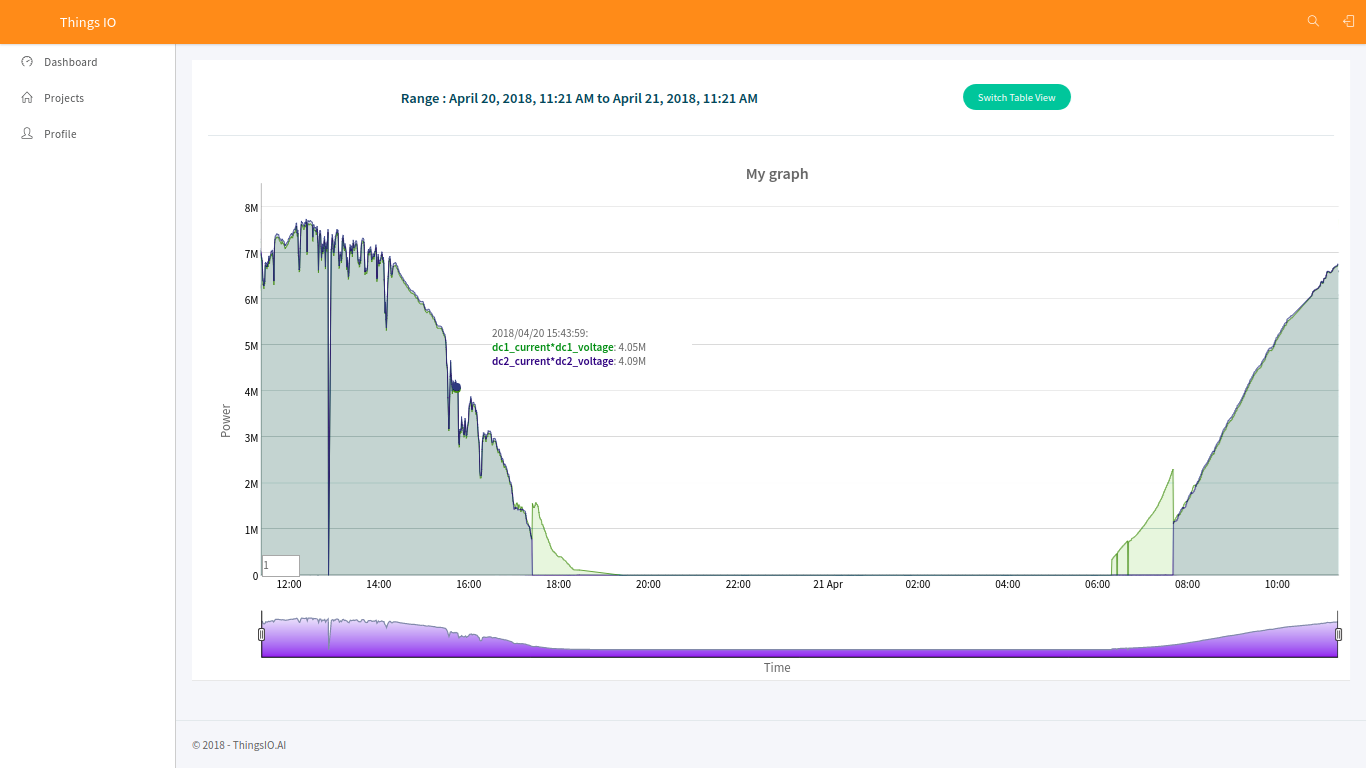
1. You can also set your device geographical location.



1. To create a graph for your device click on the “create graph option”.



1. Click on the preview option. You will see your created graph and click save changes.



**Platform**: Windows

**Installation and settings of CC3200 and CCS:**

1. Follow the installation and settings of CC3200 through this link: <https://www.youtube.com/watch?v=xbh9I8waq5g>
2. Go on project explorer-> file name and right click from mouse and go in properties. Include the file path in ARM compiler-> include options (#include search path)

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\netapps"

"C:\TI\ccsv6\tools\compiler\ti-cgt-arm\_5.2.5\include"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\netapps\json"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\driverlib"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\inc"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\example\common"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\simplelink"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\simplelink\source"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\simplelink\_extlib\provisioninglib"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\oslib"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\netapps\http\client"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\simplelink\include"

1. Include the file path in ARM linker-> file search

->Include library file or command file:

"libc.a"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\driverlib\ccs\Release\driverlib.a"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\simplelink\ccs\NON\_OS\simplelink.a"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\oslib\ccs\free\_rtos\free\_rtos.a"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\netapps\json\ccs\Release\json.a"

“C:\TI\CC3200SDK\_1.3.0\cc3200sdk\netapps\http\client\ccs\HTTPClientMinLib\webclient.a"

->Add <dir> to library search path

"${CG\_TOOL\_ROOT}/lib"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\simplelink\include"

"${CC3200\_SDK\_ROOT}/netapps/json/ccs/Release/"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\simplelink\ccs\OS"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\netapps\http\client"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\simplelink"

"C:\TI\CC3200SDK\_1.3.0\cc3200-sdk\oslib\ccs\free\_rtos"

"D:\webclient\HTTPClientMinLib"

**Code modification:**

1. Firstly, mention the host name and url respectively in main.c.

**const** **char** \*soft\_layer = "api.thingsio.ai"

**#define** CREATEA\_SESSION\_URI " /devices/deviceData "

1. Change the json data format like:

Change the device ID and slave\_id.

{ "device\_id": "integer", "dts": "date-time", "slave\_id": "integer":, "data": {} }

Example:

**#define** POST\_HEADER "{"

**#define** POST\_timestamp "\n\"dts\":"

**#define** POST\_DEVICEID ",\n\"device\_id\":201426,"

**#define** POST\_SLAVE "\n\"slave\_id\":"

**#define** POST\_HEADER1 "\n\"data\":"

**#define** POST\_BEGIN "{"

//

//

//#define POST\_CHUNK\_1 "\n\"device\_type\":"

//#define POST\_CHUNK\_2 "\n\"e\_today\":"

//#define POST\_CHUNK\_3 "\n\"e\_total\":"

//#define POST\_CHUNK\_4 "\n\"h\_total\":"

//#define POST\_CHUNK\_5 "\n\"running\_status\":"

//#define POST\_CHUNK\_25 "\n\"qac\":"

**//**

**#define** POST\_END "\n}"

**#define** POST\_TAIL1 "\n}"

1. Change slave name according to the address

**const** **char**\*name\_list[2] = {"temperature","motion"}

1. **Construct\_post\_buffer()**
2. Modify the case according to number of slaves :
3. start\_val = 0;

end\_val = 2;

**break**;

1. Change buffer location according to json data:

Note: you have to change the authorization string according to your <http://thingsio.ai/> account.

Example: s**trcpy**(pcBufLocation,POST\_HEADER);

pcBufLocation += **strlen**(POST\_HEADER);

**strcpy**(pcBufLocation,POST\_HEADER1);

pcBufLocation += **strlen**(POST\_HEADER1);

1. In **HTTPLoginMethod and HTTPPostMethod ,** please make sure that content type should be “application/json”.
2. For wi-fi settings, go in project explorer->your\_file->/example/common->common.h

Change SSID\_NAME, SECURITY\_KEY and SECURITY\_TYPE = “SL\_SEC\_TYPE\_WPA” or WPA2

1. You can attach the temperature sensor on **PIN 58**, **PIN 59** or **PIN 60**.
2. Plugin the CC3200 through USB cable. Check in device manager the port name and number.
3. Check the pin configuration and shorting of pins in CC3200.
4. Go in debug option and debug it.
5. Open the Hercules or tera-term application to see the output/procedure of the CC3200.
6. Go in serial and set the Name: according to your port number, Baud rate: 19200, Data size: 8 and Parity: none and open it.
7. Go in CCS and play the code.
8. You can see all the response from the server, login details, connection with the wi-fi etc. in Hercules or tera-term.