

HINT : host = “<http://196.205.93.181:22355>” to be put before every link

1.user/

1. register/

- `import_user.php`

- **Method** : POST
- **Input** : user_name, email, password, type, photo, phone_num
- **Output** : “true” = added successfully, “false” = something is wrong
- **link** = /api/user/register/import_user.php

- `check_mail.php`

- **Method** : GET
- **Input** : email
- **Output** : “yes” = the email exists, “no” = the email doesn’t exist
- **link** : /api/user/register/check_mail.php?email=hanfy@gmail.com

2. login/

- `get_user.php`

- **Method** : POST
- **Input** : email, password
- **Output (JSON)** :
 - { status : wrong_email } = email is wrong or doesn’t exist
 - { status : wrong_pass } = password and email doesn’t match
 - { status : true, user_id : value, user_name : value, email : value, type : value, photo : value, phone_num : value } = email & password match
- **link** : /api/user/login/get_user.php

2.hardware/

1. get_all_blocks.php

- **Method** : GET
- **Input** : user_id
- **Output (JSON)** : { blocks_ids : [“id0”, “id1”, “id2”, ...] ,
blocks_names : [“name0”, “name1”, “name2”, ...] }
- **link** : /api/hardware/get_all_blocks.php?user_id=11

2. get_rooms_block.php

- **Method** : GET
- **Input** : user_id, block_id
- **Output (JSON)** : { "rooms_ids": [“id0”, “id1”, “id2”, ...],
"rooms_names": [“name0”, “name1”, “name2”, ...] }
- **link** : /api/hardware/get_rooms_block.php?user_id=13&block_id=2

3. get_nodes_room.php

- **Method** : GET
- **Input** : user_id, room_id
- **Output (JSON)** : {"nodes_ids":["id0", "id1", "id2", ...],
"nodes_ips":["ip0", "ip1", "ip2",...],
"connected":["true/false", "true/false", "true/false",...],
"last_request":["2013-09-22 19:53:39", " .. ", " .. ", ...]}
- **link** : /api/hardware/get_nodes_room.php?user_id=5&room_id=2

4. get_devices_node.php

- **Method** : GET
- **Input** : user_id, node_id
- **Output (JSON)** : {"devices_ids":["id0", "id1", "id2", ...],
"devices_names":["name0", "name1", "name2", ...],
"state":["on/off", "on/off", "on/off",...],
"devices_room_id":["id0", "id1", "id2", ...],
"devices_block_id":["id0", "id1", "id2", ...]}
- **link** : /api/hardware/get_devices_node.php?user_id=5&node_id=16

5. get_block_consumption.php

- **Method** : GET
- **Input** : user_id, block_id
- **Output (JSON)** : {"block_name":"name",
"block_reading":"value",
"reading_time":"2007-05-28 05:25:28" }
- **Link** : /api/hardware/get_block_consumption.php?user_id=2&block_id=19

6. get_block_info.php

- **Method** : GET
- **Input** : block_id
- **Output (JSON)** : {"block_name":"name",
"block_reading":"value",
"reading_time":"2006-04-01 09:25:34" }
- **link** : /api/hardware/get_block_info.php?block_id=1

7. get_room_info.php

- **Method** : GET
- **Input** : room_id
- **Output (JSON)** : {"room_name":"name",
"block_id":"id" }
- **link** : /api/hardware/get_room_info.php?room_id=4

8. get_node_info.php

- **Method** : GET
- **Input** : node_id
- **Output (JSON)** : { "node_id": "id",
"ip_address": "ip",
"connected": "true/false",
"last_request": "1970-07-23 12:24:41",
"room_id": "id" }
- **link** : /api/hardware/get_node_info.php?node_id=5

9. get_device_info.php

- **Method** : GET
- **Input** : device_id
- **Output (JSON)** : { "device_id": "id",
"device_name": "name",
"state": "on/off",
"node_id": "id" }
- **link** : /api/hardware/get_device_info.php?device_id=5

10. add_block.php

- **Method** : GET
- **Input** : user_id, block_name
- **Output** : “done” , “wrong”
- **link** : /api/hardware/add_block.php?user_id=5&block_name=otherSide

11. add_room.php

- **Method** : GET
- **Input** : block_id, room_name
- **Output** : “done” , “wrong”
- **link** : /api/hardware/add_room.php?block_id=9&room_name=batCave

12. add_node.php

- **Method** : GET
- **Input** : room_id, ip_address, connected, last_request
- **Output** : “done” , “wrong”
- **link** : /api/hardware/add_node.php?room_id=5&ip_address=12345678&connected=true

13. add_device.php

- **Method** : GET
- **Input** : node_id, device_name, state
- **Output** : “done” , “wrong”
- **link** : /api/hardware/add_device.php?node_id=6&device_name=stbot&state=off

14. set_device_state.php

- **Method** : GET
- **Input** : device_id, state (on/off/disconnected)
- **Output** : “done” , “wrong”
- **link** : /api/hardware/set_device_state.php?device_id=6&state=off

15. get_devices_room.php

- **Method** : GET
- **Input** : user_id, room_id
- **Output (JSON)** : { "devices_ids": ["id0", "id1", "id2", ...],
"devices_names": ["name0", "name1", "name2", ...],
"state": ["on/off/disconnected", "on/off/disconnected", "on/off/disconnected", ...],
"devices_node_id": ["id0", "id1", "id2", ...], }
- **link** : /api/hardware/get_devices_node.php?user_id=11&room_id=29

3.bills/

1. add_bill.php

- **Method** : GET
- **Input** : user_id, month, value, kwh_cost, limit
- **Output** : “done” , “wrong”
- **link** : /api/bills/add_bill.php?user_id=5&value=100&kwh_cost=5&month=March&limit=0

2. set_kwh_cost.php

- **Method** : GET
- **Input** : user_id, month, new_kwh_cost
- **Output** : “done” , “wrong”
- **link** : /api/bills/set_kwh_cost.php?user_id=5&month=March&new_kwh_cost=7

3. get_user_bills.php

- **Method** : GET
- **Input** : user_id
- **Output (JSON)** : { "bills_ids": ["id0", "id1", "id2", ...],
"bills_months": ["January", "March", "Month2", ...],
"bills_values": ["value0", "value1", "value2", ...],
"KWH_Cost": ["value0", "value1", "value2", ...],
"bills_limits": ["value0", "value1", "value2", ...] }
- **link** : /api/bills/get_user_bills.php?user_id=5

4. get_current_usage.php

- **Method** : GET
- **Input** : user_id
- **Output (JSON)** : { "blocks_ids" : ["id0", "id1", "id2", ...],
"blocks_names": ["name0", "name1", "name2", ...],
"blocks_readings": ["value0", "value1", "value2", ...],
"blocks_readings_time": ["date0", "date1"],
"user_total_consumption": value }
- **link** : /api/bills/get_current_usage.php?user_id=18

5. set_limit.php

- **Method** : GET
- **Input** : user_id, month, new_limit
- **Output** : “done”, “wrong”
- **link** : /api/bills/set_limit.php?user_id=1&month=March&new_limit=7

4.message/

1. send_message.php

- **Method** : GET
- **Input** : node_id, message
- **Output** : “done” , “wrong”
- **link** : /api/message/send_message.php?node_id=3&message=lol

2. request_message.php

- **Method** : GET
- **Input** : node_id
- **Output** : “”, “message” this is dynamic as the message changes
- **link** : /api/message/request_message.php?node_id=74

5.schedule/ “done”

1. set_schedule.php

- **Method** : POST
- **Input (JSON)** : data = { device_id : id,
day : “Sat,Sun,...”,
start_time : datetime,
end_time : datetime,
repetition : “once/weekly/this month/this year’ }
• **Output** : “done” , “wrong”
• **Hint how to use it:**

```
$data = array( "device_id" => "18", "day" => "Sun", "start_time" => date('2016-03-01 14:30:00'), "end_time" => date('2016-03-01 14:00:00'), "repetition" => "once" );  
$jsonData = urlencode(json_encode($data));  
$url = "http://lindabot.net23.net/AlaaIoT/api/schedule/set_schedule.php";  
$ch = curl_init($url);  
curl_setopt($ch, CURLOPT_CUSTOMREQUEST, "POST");  
curl_setopt($ch, CURLOPT_POSTFIELDS, array("data"=>$jsonData) );  
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);  
$result = curl_exec($ch);
```

2. get_all_durations.php

- **Method** : GET
- **Input** : device_id
- **Output (JSON)** : { "durations_ids":[“id0”, “id1”, “id2”, ...],
"days":["Sun"],["Sun"],["Sun,Mon"],...],
"start_time":["2016-03-01 14:30:00",...,...,...],
"end_time":["2016-03-01 14:00:00",...,...,...],
"repetition":["once/weekly/this month/this year",...],
"create_date":["2016-06-16 11:04:04",...]}
• **link** : /api/bills/get_all_durations.php?device_id=5

6.readings/

1. get_block_readings.php

- **Method** : GET
- **Input** : block_id
- **Output** : {"block_name":"name",
"readings_ids":["id0","id1","id2",...],
"readings_times":["2013-04-29 19:47:16","..","..", ...],
"power_fact":["value0","value1","value2",...],
"active_power":["value0","value1","value2",...],
"voltage":["value0","value1","value2",...],
"current":["value0","value1","value2",...]}
- **link** : /api/readings/get_block_readings.php?block_id=2

2. get_device_readings.php

- **Method** : GET
- **Input** : device_id
- **Output** : {"device_name":"name",
"readings_ids":["value0","value1","value2",...],
"readings_times":["2004-08-02 00:23:15","..","..",...],
"readings_values":["value0","value1","value2",...]}
- **link** : /api/readings/get_device_readings.php?device_id=3

3. add_block_reading.php

- **Method** : GET
- **Input** : block_id, power_fact, active_power, voltage, current
- **Output** : “done”, “wrong”
- **link** : /api/readings/add_block_reading.php?block_id=3&power_fact=12&active_power=11&voltage=120¤t=20

2. add_device_reading.php

- **Method** : GET
- **Input** : device_id, reading
- **Output** : “done”, “wrong”
- **link** : /api/readings/add_device_reading.php?device_id=30&reading=55