

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.notifications/

1. add_notification.php

- **Method** : GET
- **Input** : user_id, content
- **Output** : “done”, “wrong”
- **link** : /api/notifications/add_notification.php?user_id=2&content=hello

2. get_user_notifications.php

- **Method** : GET
- **Input** : user_id
- **Output** : { "notifications_ids": ["id0", "id1", "id2", ...],
"notifications_times": ["2016-03-01 14:30:00", ..., ..., ...],
"content": ["value0", "value1", "value2", ...] }
- **link** : /api/notifications/get_user_notifications.php?user_id=2

4.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](/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](/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](/api/bills/set_limit.php?user_id=1&month=March&new_limit=7)

### 5.message/

#### 1. send\_message.php

- Method** : GET
- Input** : device\_id, message
- Output** : "done", "wrong"
- link** : [/api/message/send\\_message.php?device\\_id=117&message=lol](/api/message/send_message.php?device_id=117&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](/api/message/request_message.php?node_id=74)

### 6.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/AlaalOT/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

## 3. get\_user\_durations.php

- **Method** : GET
- **Input** : user\_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", ... ]  
                           "device\_ids": [ "id0", "id1", "id2", ... ]  
                           "device\_name": [ "name0", "name1", "name2", ... ]  
                           "room\_ids": [ "id0", "id1", "id2", ... ],  
                           "room\_name": [ "name0", "name1", "name2", ... ]  
                           "block\_ids": [ "id0", "id1", "id2", ... ]  
                           "block\_name": [ "name0", "name1", "name2", ... ] }
- **link** : /api/bills/get\_all\_durations.php?device\_id=5

## 7. 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\_user\_total\_consumption.php

- **Method** : GET
- **Input** : user\_id

- **Output** : { "blocks\_ids":["id0","id1","id2",...],  
"blocks\_names":["name0","name1","name2"],  
"blocks\_consumption":["value0","value1","value2"],  
"total\_consumption":value }
- **link** : [/api/readings/get\\_user\\_total\\_consumption.php?user\\_id=5](/api/readings/get_user_total_consumption.php?user_id=5)

### 3. 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](/api/readings/get_device_readings.php?device_id=3)

### 4. 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&current=20](/api/readings/add_block_reading.php?block_id=3&power_fact=12&active_power=11&voltage=120&current=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](/api/readings/add_device_reading.php?device_id=30&reading=55)