server_automation

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Description

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ONE

HOME

class Home.Home(name='MyHome', rooms_list=[], mqtt_client=<object object>)
 Home class

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TWO

ROOM

class Room.Room(name='room_1', elements_list=[])
 Room class

6 Chapter 2. Room

THREE

ELEMENT

8 Chapter 3. Element

FOUR

API

```
class Api.Api
     API class
     create_action(value=", element_name=")
          Create an action
              Parameters
                  • value (str or int) - The value
                  • element_name (str) – The element name of the value
              Returns int – The status code of the request post
     create_element(element_name=", parent_room_name=", type_name=")
          Create an element
              Parameters
                  • element_name (str) – The name of the element
                  • parent_room_name (str) - The name of the room parent
                  • type_name (str) – The type of the element
              Returns int – The status code of the request post
     create_home(home_name=", rooms_list=[])
          Create a home
              Parameters
                  • home_name (str) – The name of the home
                  • rooms_list (list) - The list of rooms in the home
              Returns int – The status code of the request post
     create_mode(parent_home_name=", mode_name=")
          Create a mode
              Parameters
                  • element_name (str) – The name of the mode
                  • parent_home_name (str) - The name of the parent home
```

Returns int – The status code of the request post

create_room(room_name=", parent_home_name=", elements_list=[])

Create a room

Parameters

```
• room_name (str) – The name of the room
```

- $parent_home_name(str)$ The name of the parent home
- elements_list (list) The list of elements in the room

Returns int – The status code of the request post

```
create_type(type name=")
```

Create a type

Parameters type_name (str) – The name of the type

Returns int – The status code of the request post

create_value(value=", element_name=")

Create a value

Parameters

- value (str or int) The value
- **element_name** (str) The element name of the value

Returns int – The status code of the request post

get_action_by_id(action_id=0)

Get one action with it id

Parameters action_id (*ID*) – The ID of the action

Returns json – The json of the action data

get_actions()

Get all actions

Returns json – The json of all actions data

get_active_mode(home_name)

Get the active mode

Parameters home_name (str) – The name of the home's mode

Returns str – The name of the active mode

get_element_by_id(element_id=0)

Get one element with it id

Parameters element_id (ID) - The ID of the element

Returns json – The json of the element data

get_element_by_iri(element_iri=")

Get one element with it IRI

Parameters element_iri (str) – The IRI of the element, exemple /api/elements/1

Returns json – The json of the element data

get_element_by_name(element_name=")

Get one element with it name

Parameters element_name (str) – The name of the element

Returns json – The json of the element data

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```
get_element_id_by_name(element name=")
     Get element id by name
         Parameters element_name (str) – The name of the element
         Returns id – The ID of the element
get_element_name_by_id(element id=0)
     Get element name by id
         Parameters element_id (int) – The ID of the element
         Returns str – The name of the element
get_elements()
     Get all elements
         Returns json – The json of all elements data
get_home_by_id(home_id=0)
     Get one home with it ID
         Parameters home id (int) – The ID of the home
         Returns json – The json of the home data
get_home_by_name(home_name=")
     Get one home with it name
         Parameters home_name (str) – The name of the home
         Returns json – The json of the home data
get_home_id_by_name(home_name=")
     Get home id by name
         Parameters home_name (str) – The name of the home
         Returns id – The ID of the home
get_home_name_by_id(home_id=0)
     Get home name by id
         Parameters home_id (int) – The ID of the home
         Returns str – The name of the home
get_homes()
     Get all homes
         Returns json – The json of all homes data
get_last_action_by_element_name(element_name=")
     Get the last action of an element (by name element name)
         Parameters element_name (ID) – The element name
         Returns json – The json of the value data
get_last_value_by_element_name(element_name=")
     Get the last value of an element (by name element name)
         Parameters element_name (ID) – The element name
         Returns json – The json of the value data
get_modes()
     Get all modes
```

```
Returns json – The json of all modes data
get_room_by_id(room_id=0)
     Get one room with it ID
         Parameters room_id (int) – The ID of the room
         Returns json – The json of the room data
get_room_by_iri(room iri=")
     Get one room with it IRI
         Parameters room_iri (str) – The IRI of the room, exemple /api/rooms/1
         Returns json – The json of the room data
get_room_by_name(room_name=")
     Get one room with it name
         Parameters room_name (str) – The name of the room
         Returns json – The json of the room data
get_room_id_by_name(room_name=")
     Get room id by name
         Parameters room_name - The name of the room
         Returns id – The ID of the room
get_room_name_by_id(room_id=0)
     Get room name by id
         Parameters room_id (int) – The ID of the room
         Returns str – The name of the room
get_rooms()
    Get all rooms
         Returns json – The json of all rooms data
get_type_by_id(type_id=0)
     Get one type with it id
         Parameters type_id (int) – The ID of the type
         Returns json – The json of the type data
get_type_by_iri(type_iri=")
     Get one type with it iri
         Parameters type_iri (str) – The IRI of the type, exemple /api/types/1
         Returns json – The json of the type data
get_type_by_name(type_name=")
     Get one type with it name
         Parameters type_name (str) – The name of the type
         Returns json – The json of the type data
get_type_id_by_name(type_name=")
     Get type id by name
         Parameters type_name (str) – The name of the type
```

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```
Returns id – The ID of the type
get_type_name_by_id(type_id=0)
     Get type name by id
         Parameters type_id (int) – The ID of the type
         Returns str – The name of the type
get_types()
     Get all types
         Returns json - The json of all types data
get_unresolved_actions()
     Get all unresolved actions
         Returns json – The json of the actions data
get_unresolved_actions_by_element_name(element_name=")
     Get all unresolved action of an element (by name element name)
         Parameters element_name (ID) – The name of the element
         Returns json – The json of the actions data
get_value_by_id(value_id=0)
     Get one value with it id
         Parameters value_id (ID) – The ID of the value
         Returns json – The json of the value data
get_values()
     Get all values
         Returns ison – The ison of all values data
update_action(action_id=0, value=", element_name=", state=False)
     Update an action
         Parameters
             • action_id (int) - The ID of the action
             • value (str or int) - The value
             • element_name (str) – The element name of the value
             • state (bool) – The state of the action
         Returns int – The status code of the request put
update_element(element_id=0, element_name=", parent_room_name=", type_name=", actions_id=None,
                  values_id=None, state=None)
     Update an element
         Parameters
             • element_id (int) – The ID of the element
```

- **element_name** (*str*) The name of the element
- parent_room_name (str) The name of the parent room
- actions_id The list of actions
- **values_id** (*1ist*) The list of values

• **state** (*bool*) – The state of the element (for actuator)

Returns int – The status code of the request put

update_home(home_id=0, home_name=", rooms_list=None)
Update a home

Parameters

- home_id (int) The ID of the home
- home_name (str) The name of the home
- rooms_list (list) The list of rooms in the home

Returns int – The status code of the request put

update_mode(mode_id=0, state=False)

Update a mode

Parameters

- mode_id (int) The ID of the mode
- **state** (bool) The state of the action

Returns int – The status code of the request put

update_room(room_id=0, room_name=", parent_home_name=", elements_list=None)
Update a room

Parameters

- room_id (int) The ID of the room
- room_name (str) The name of the room
- **elements_list** (list) The list of elements in the room
- parent_home_name (str) The name of the parent home

Returns int – The status code of the request put

update_type(*type_id=0*, *type_name=''*, *elements_list=None*)
Update a type

Parameters

- **type_id** (*int*) The ID of the type
- $type_name(str)$ The name of the type
- **elements_list** (*list*) The list of elements in the room

Returns int – The status code of the request put

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