

URL: <https://ec2-18-224-246-127.us-east-2.compute.amazonaws.com:8080/api/ENDPOINT>

Add:

Add_device:

- **Parameters:**
 - (String) **device:** **d_name**
- **ENDPOINT:**
 - `add_device?device=d_name`
- **Return Values:**
 - (Message string) 'Device added successfully.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'Missing device name.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **d_name** was not set
 - (Message string) 'Device already exists in database.'
 - **Status:** **ERROR**
 - **Action:** `list_devices`
 - **Cause:** a device with **d_name** is already present in the database
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

add_manufacturer:

- **Parameters:**
 - (String) **manufacturer:** **m_name**
- **ENDPOINT:**
 - `add_manufacturer?manufacturer=m_name`
- **Return Values:**
 - (Message string) 'Manufacturer added successfully.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'Missing manufacturer name.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **m_name** was not set
 - (Message string) 'Manufacturer already exists in database.'
 - **Status:** **ERROR**
 - **Action:** `list_manufacturers`
 - **Cause:** a manufacturer with **m_name** is already present in the database
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**

- **Action:** None
- **Cause:** SQL query failed

add_equipment:

- **Parameters:**
 - (Int) **did:** **device_id**
 - (Int) **mid:** **manufacturer_id**
 - (String) **sn:** **serial_number**
- **ENDPOINT:**
 - add_equipment?did=**device_id**&mid=**manufacturer_id**&sn=**serial_number**
- **Return Values:**
 - (Message string) 'Equipment added successfully.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'Missing device id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was not set
 - (Message string) 'Missing manufacturer id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was not set
 - (Message string) 'Missing serial number.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **serial_number** was not set
 - (Message string) 'Invalid device id.'
 - **Status:** **ERROR**
 - **Action:** query_device
 - **Cause:** **device_id** was set but not an integer
 - (Message string) 'Invalid manufacturer id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was set but not an integer
 - (Message string) 'Equipment already exists in database.'
 - **Status:** **ERROR**
 - **Action:** query_serial
 - **Cause:** equipment with **serial_number** is already present in the database
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

List:

list_devices:

- **Parameters:** None
- **ENDPOINT:**
 - list_devices
- **Return Values:**
 - (JSON) Array [device_id, device_name, status]
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'No devices found.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

list_manufacturers:

- **Parameters:** None
- **ENDPOINT:**
 - list_manufacturers
- **Return Values:**
 - (JSON) Array [manufacturer_id, manufacturer_name, status]
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'No manufacturers found.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

Modify:

modify_device:

- **Parameters:**
 - (Int) **did:** **device_id**
 - (String) **device:** **d_name**
 - (String) **status:** **status**
- **ENDPOINT:**
 - `modify_device?did=device_id&device=d_name&status=status`
- **Return Values:**
 - (Message string) 'Device modified successfully.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'Missing device id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was not set
 - (Message string) 'Missing device name.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **d_name** was not set
 - (Message string) 'Missing status.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **status** was not set
 - (Message string) 'Invalid device id.'
 - **Status:** **ERROR**
 - **Action:** query_device
 - **Cause:** **device_id** was set but not an integer
 - (Message string) 'Device already exists in database.'
 - **Status:** **ERROR**
 - **Action:** list_devices
 - **Cause:** a device with **d_name** is already present in the database
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

modify_manufacturer:

- **Parameters:**
 - (Int) **mid:** **manufacturer_id**
 - (String) **manufacturer:** **m_name**
 - (String) **status:** **status**
- **ENDPOINT:**
 - `modify_device?mid=manufacturer_id&manufacturer=m_name&status=status`

- **Return Values:**

- (Message string) 'Manufacturer modified successfully.'
 - **Status:** **SUCCESS**
 - **Action:** None
- (Message string) 'Missing manufacturer id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was not set
- (Message string) 'Missing manufacturer name.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **m_name** was not set
- (Message string) 'Missing status.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **status** was not set
- (Message string) 'Invalid manufacturer id.'
 - **Status:** **ERROR**
 - **Action:** query_manufacturers
 - **Cause:** **manufacturer_id** was set but not an integer
- (Message string) 'Manufacturer already exists in database.'
 - **Status:** **ERROR**
 - **Action:** list_manufacturers
 - **Cause:** a manufacturer with **m_name** is already present in the database
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

modify_equipment:

- **Parameters:**

- (Int) **eid:** **equipment_id**
- (Int) **did:** **device_id**
- (Int) **mid:** **manufacturer_id**
- (String) **sn:** **serial_number**
- (String) **status:** **status**

- **ENDPOINT:**

- modify_device?eid=**equipment_id**&did=**device_id**&mid=**manufacturer_id**&sn=**serial_number**&status=**status**

- **Return Values:**

- (Message string) 'Equipment modified successfully.'
 - **Status:** **SUCCESS**
 - **Action:** None
- (Message string) 'Missing equipment id.'
 - **Status:** **ERROR**

- **Action:** None
 - **Cause:** **equipment_id** was not set
- (Message string) 'Missing device id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was not set
- (Message string) 'Missing manufacturer id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was not set
- (Message string) 'Missing serial number.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **serial_number** was not set
- (Message string) 'Missing status.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **status** was not set
- (Message string) Invalid equipment id.'
 - **Status:** **ERROR**
 - **Action:** query_id
 - **Cause:** **equipment_id** was set but not an integer
- (Message string) Invalid device id.'
 - **Status:** **ERROR**
 - **Action:** query_device
 - **Cause:** **device_id** was set but not an integer
- (Message string) Invalid manufacturer id.'
 - **Status:** **ERROR**
 - **Action:** query_manufacturer
 - **Cause:** **manufacturer_id** was set but not an integer
- (Message string) Equipment already exists in database.'
 - **Status:** **ERROR**
 - **Action:** query_serial
 - **Cause:** equipment with **serial_number** is already present in the database
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

Query:

query_device:

- **Parameters:**
 - (Int) **did:** **device_id**
- **ENDPOINT:**
 - query_device?**did=device_id**
- **Return Values:**
 - (JSON) Single {device_id, device_name, status}
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'Device not found.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'Missing device id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was not set
 - (Message string) 'Invalid device id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was set but not an integer
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

query_manufacturer:

- **Parameters:**
 - (Int) **mid:** **manufacturer_id**
- **ENDPOINT:**
 - query_manufacturer?**mid=manufacturer_id**
- **Return Values:**
 - (JSON) Single {manufacturer_id, manufacturer_name, status}
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'Manufacturer not found.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'Missing manufacturer id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was not set

- (Message string) 'Invalid manufacturer id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was set but not an integer
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

query_id:

- **Parameters:**
 - (Int) eid: **equipment_id**
- **ENDPOINT:**
 - query_id?eid=**equipment_id**
- **Return Values:**
 - (JSON) Single {equipment_id, device_id, manufacturer_id, serial_number, status}
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'Equipment not found.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'Missing equipment id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **equipment_id** was not set
 - (Message string) 'Invalid equipment id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **equipment_id** was set but not an integer
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

query_serial:

- **Parameters:**
 - (Int) sn: **serial_number**
- **ENDPOINT:**
 - query_id?sn=**serial_number**
- **Return Values:**
 - (JSON) Single {equipment_id, device_id, manufacturer_id, serial_number, status}
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'Equipment not found.'
 - **Status:** **SUCCESS**

- **Action:** None
 - **Cause:** Query was successful but returned no results
- (Message string) 'Missing serial number.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **serial_number** was not set
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

Search:

search_devices:

- **Parameters:**
 - (Optional int) **did:** **device_id**
 - (Optional int) **mid:** **manufacturer_id**
 - (Optional string) **sn:** **serial_number**
 - (Optional string) **include_inactive:** **include_inactive**
- **ENDPOINT:**
 - add_equipment?**did=device_id&mid=manufacturer_id&sn=serial_number&include_inactive=include_inactive**
- **Return Values:**
 - (JSON) Array [equipment_id, device_id, manufacturer_id, serial_number, status]
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'No equipment found.'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'Invalid device id.'
 - **Status:** **ERROR**
 - **Action:** query_device
 - **Cause:** **device_id** was set but not an integer
 - (Message string) 'Invalid manufacturer id.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was set but not an integer
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed