# **Device Example JSON**

Name	Туре	Description
url	string	Required. URL with auto-generated unique id
id	string	Required. Auto-generated unique id
color	string	Required. Color Enum of device
model	string	Required. Model Enum of device
serial_no	string	Required. Serial Number of device
is_rented	boolean	Required. Default is false

```
{
  "url": "https://.../devices/kj0987a234bcdasdf12",
  "id":"kj0987a234bcdasdf12",
  "color": "SPACE_GRAY",
  "model":"LENOVO",
  "serial_no":"ASDFASDF123",
  "is_rented":false
}
```

Valid Colors: SILVER, SPACE\_GRAY, GOLD, ROSE\_GOLD

Valid Models: LENOVO, IPAD\_4TH, IPAD\_AIR, IPAD\_AIR2

# **User Example JSON**

Name	Туре	Description
url	string	Required. URL with auto-generated unique id
id	string	Required. Auto-generated unique id

Name	Туре	Description
first_name	string	Required. User first name
family_name	string	Required. User family/last name
group	string	Required. Group Enum
device_id	string	ID of the current device, null if empty
start_date	string	Datetime that current device rented in "DD/MM/YYYY HH:MM", null if empty

```
{
  "url": "https://.../users/123abc",
  "id":"123abc",
  "first_name": "Val",
  "family_name": "Chapple",
  "group": "CLASS_2018",
  "device_id":"kj0987a234bcdasdf12",
  "start_date":"1/1/2015 18:23",
}
```

Valid Groups: STAFF , CLASS\_2018 , CLASS\_2019 , CLASS\_2020 , CLASS\_2
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# View a list of devices

Returns an array of device information in JSON, including urls to each device.

```
GET /devices
```

### Response

```
"serial_no":"ASDFASDF123",
    "is_rented":false
}
```

# View a single device

Returns information of a device with {device\_id} in JSON, including the url to the device.

```
GET /devices/{device_id}
```

#### Response

```
Status: 200 OK

{
   "url": "https://.../devices/kj0987a234bcdasdf12",
   "id":"kj0987a234bcdasdf12",
   "color": "SPACE_GRAY",
   "model":"LENOVO",
   "serial_no":"ASDFASDF123",
   "is_rented":false
}
```

# View a list of users

Returns an array of user information in JSON, including urls to each user.

```
GET /users
```

### Response

```
"family_name": "Chapple",
    "group": "CLASS_2018",
    "device_id":"kj0987a234bcdasdf12",
    "start_date":"1/1/2015 18:23",
}
]
```

# View a single user

Returns information of a user with {user\_id} in JSON, including the url to the user.

```
GET /users/{user_id}
```

### Response

```
Status: 200 OK

{
    "url": "https://.../users/123abc",
    "id":"123abc",
    "first_name": "Val",
    "family_name": "Chapple",
    "group": "CLASS_2018",
    "device_id":"kj0987a234bcdasdf12",
    "start_date":"1/1/2015 18:23",
}
```

## Create a new device

```
POST /devices
```

### Input

Name	Туре	Description
color	string	Required. Color Enum of device
model	string	Required. Model Enum of device
serial_no	string	Required. Serial Number of device

Invalid data, extra data, or incorrect data types will be rejected.

**Note**: A new device defaults to false for is\_rented, and the device id is auto-generated on the server.

### **Request Body**

```
{
  "color": "SPACE_GRAY",
  "model": "LENOVO",
  "serial_no": "ASDF1234567"
}
```

### Response

```
Status: 201 Created

{
    "url": "https://.../devices/dasdf1234hl",
    "id": "dasdf1234hl",
    "color": "SPACE_GRAY",
    "model": "LENOVO",
    "serial_no": "ASDF1234567",
    "is_rented": false
}
```

## Create a new user

```
POST /users
```

### Input

Name	Туре	Description
first_name	string	Required. User first name
family_name	string	Required. User family name
group	string	Required. Group Enum

Invalid data, extra data, or incorrect data types will be rejected.

**Note 1**: A new user defaults to no devices checked out. That is, device\_id and start\_date default to null.

Note 2: The user id is auto-generated on the server.

#### **Request Body**

```
{
  "first_name": "Larry",
  "family_name": "Chapple",
  "group": "STAFF",
}
```

#### Response

```
Status: 201 Created

{
    "url": "https://.../users/456abc",
    "id":"456abc",
    "first_name": "Larry",
    "family_name": "Chapple",
    "group": "STAFF",
    "device_id": null,
    "start_date": null
}
```

## **Edit a device**

```
PATCH /devices/{device_id}
```

### Input

Name	Туре	Description
color	string	Color Enum of device
model	string	Model Enum of device
serial_no	string	Serial Number of device

Invalid data, extra data, or incorrect data types will be rejected.

**Note**: The property <code>is\_rented</code> can only be changed by checking the device out or in.

### **Request Body**

```
{
  "color": "GOLD",
}
```

### Response

```
Status: 200 OK

{
    "url": "https://.../devices/dasdf1234hl",
    "id": "dasdf1234hl",
    "color": "GOLD",
    "model": "LENOVO",
    "serial_no": "ASDF1234567",
    "is_rented": true
}
```

## Edit a user

```
PATCH /users/{user_id}
```

### Input

Name	Туре	Description
first_name	string	User first name
family_name	string	User family name
group	string	Group Enum

Invalid data, extra data, or incorrect data types will be rejected.

**Note**: All other user properties can only be changed by checking a device in or out.

### **Request Body**

```
{
   "group": "STAFF"
}
```

#### Response

```
Status: 200 OK

{
   "url": "https://.../users/456abcd",
   "id": "456abcd",
   "first_name": "Sharon",
   "family_name": "Chapple",
   "group": "STAFF",
   "device_id": null,
   "start_date": null,
}
```

## Delete a device

```
DELETE /devices/{device_id}
```

### Response

```
Status: 204 No Content
```

Device is removed from data store only if is\_rented equals false.

# Delete a user

```
DELETE /users/{user_id}
```

### Response

```
Status: 204 No Content
```

User is removed from data store only if  $device\_id$  equals null and  $start\_date$  equals null.

### Set a Device to a user

PUT /devices/{device\_id}/users/{user\_id}

- The user's property of device\_id is set to that of the device.
- The user's property of start\_date are set to the current datetime.
- The device's properties of is\_rented is set to false.
- Request will be rejected if the device is already checked out or the user already has a device.

#### Response

Status: 204 No Content

### Set a Device to Available

DELETE /users/{user\_id}/devices/{device\_id}

- The user's properties of device\_id and start\_date are set to null
- The device's property of is\_rented is set to false.
- Request will be rejected if the device is already checked in or the user already doesn't have a device.

#### Response

Status: 204 No Content