Welcome to OpenAg's Data API documentation!

Summary

Resource	Operation	Description
Authentication	POST /api/verify_user_session/	Verify user's session
	POST /api/signup/	Create account
	POST /login/	Log in
Device	POST /api/get_current_device_status/	Get device status
	POST /api/get_device_notifications/	Device notifications
	POST /api/ack_device_notification/	ACK a notification
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Horticulture	POST /api/submit_horticulture_measurements/	Save horticulture measurements
	POST /api/daily_horticulture_measurements/	Save horitculture measurements
	POST /api/get_horticulture_daily_logs/	Get horitculture measurements
Recipe	POST /api/get_current_recipe_info/	Status
	POST /api/get_device_peripherals/	Get peripherals
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	POST /api/get_recipe_by_uuid/	Recipe details
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	POST /api/apply_to_device/	Run recipe, run
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Sensor Data	POST /api/get_current_stats/	Current readings
	POST /api/get_device_images/	Image list
	POST /api/get_temp_details/	Temp/RH data
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User	POST /api/save_user_profile_changes/	Update profile
	POST /api/get_user_devices/	Get user's devices
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Utility	POST /api/get_device_types/	Device types
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	POST /api/upload_images/	Upload an image
	GET /viewImage/(imageData)	Generate tweet

API Details

POST /api/submit_horticulture_measurements/

Save horticulture measurements from a device.

Request Headers:

- Accept application/json
- ject:
- Request JSON Ob- user_token (string) User Token returned from the /login API.
 - device_uuid (string) Device UUID in which plant was measured
 - leaves_count (string) Leaf count
 - plant_height (string) Plant height in cm

```
{
   "message": "Measurements saved.",
   "response_code": 200
}
```

POST /api/daily_horticulture_measurements/

Save horitculture measurements for a device.

Request Headers:

Accept – application/json

Request JSON Obiect:

• **user_token** (*string*) – User Token returned from the /login API.

• device_uuid (string) – Device UUID

• plant_height (string) - plant_height

• **leaf_count** (*string*) – leaf_count

• leaf_colors (string) - leaf_colors

• **leaf_withering** (*string*) – leaf_withering

• flavors (string) – flavors

• root_colors (string) – root_colors

• horticulture_notes (string) – horticulture_notes

• **submission_name** (*string*) – submission_name

Example response:

```
{
   "response_code": 200
}
```

POST /api/get_horticulture_daily_logs/

Get horitculture measurements for a device.

Request Headers:

Accept – application/json

Request JSON Ob-

• user token (string) – User Token returned from the /login API.

ject:

device_uuid (string) – Device UUID

Example response:

POST /api/save_user_profile_changes/

Update the users' profile information.

Request Headers:

Accept – application/json

Request JSON Ob-

• user token (string) – User Token returned from the /login API.

iect:

• email_address (string) - Users email address

• **username** (*string*) – Users username (and login name)

• organization (string) - The organization the user is associated with

Example response:

```
{
   "profile_image": "previously saved profile image",
   "username": "saved name",
   "email_address": "saved email address",
   "organization": "saved organization",
   "response_code": 200
}
```

POST /api/get_current_device_status/

Get the current status of a device.

Request Headers: • Accept – application/json

Request JSON Ob- • user_token (*string*) – User Token returned from the /login API.

ject: • device_uuid (string) – UUID of device to apply recipe to

Example response:

```
"progress": 0.0,
   "age_in_days": 0,
   "wifi_status": "N/A for this device",
   "current_temp": "N/A for this device",
   "runtime": 0,
   "response_code": 200
}
```

POST /api/get_device_notifications/

Get the list un-acknowledged notifications for this device.

Request Headers: • Accept – application/json

Request JSON Ob- • user_token (*string*) – User Token returned from the /login API.

ject: • device_uuid (string) – UUID of device to apply recipe to

Example response:

POST /api/get current recipe info/

Get status of the current recipe running on device.

Request Headers: • Accept – application/json

Request JSON Ob- • user_token (string) – User Token returned from the /login API.

ject: • selected_device_uuid (string) – UUID of device

```
"expired": "True",
"runtime": 4,
"plant_type": "Basil",
"recipe_uuid": "uuid",
"response_code": 200
```

POST /api/ack device notification/

Acknowledge a device notification.

Request Headers:

Accept – application/json

Request JSON Ob-

• **user_token** (*string*) – User Token returned from the /login API.

• device uuid (string) – UUID of device to apply recipe to

• **ID** (*string*) – Notification ID to acknowledge

Example response:

```
"response_code": 200
}
```

POST /api/get device peripherals/

Get peripherals. Used for recipe editor.

Request Headers:

Accept – application/json

Request JSON Ob-

user_token (string) – User Token returned from the /login API.

iect:

ject:

• selected_peripherals (string) - Comma separated list of peripheral **UUIDs**

Example Response:

```
"results":[{
    "name": "Name",
"sensor_name": "Sensor Name",
   "type": "Sensor Type",
"color": "#FFAA00",
"inputs": "inputs"
} ]
```

POST /api/submit recipe change/

Convert the users recipe selections into a properly formatted recipe to be saved and sent to the specified device. Not currently used.

Request Headers:

Accept – application/json

Request JSON Ob- • user_token (*string*) – User's Token.

ject:

• **device_uuid** (*string*) – User's device.

• recipe_state (string) – JSON recipe options.

```
"message": "yay",
"response_code": 200
```

Verify the user's session token is still valid. .. :quickref: Authentication; Verify user's session

Request Headers:

Accept – application/json

Request JSON Ob-

• **user_token** (*string*) – User Token returned from the /login API.

ject:

Example response:

```
"message": "Successful",
"is_expired": "True",
"response_code": 200
```

POST /api/get recipe by uuid/

Return all the details about this recipe and a users devices. Used to build an editor to modify this recipe. Not currently used.

Request Headers:

Accept – application/json

Request JSON Ob- • user_token (*string*) – User Token returned from the /login API.

iect:

recipe_uuid (string) – Recipe UUID to look up

Example response:

```
"lots and lots of data": "not described until we implement the new recipe editor",
"response code": 200
```

POST /api/get current recipe/

Get current recipe running on device.

Request Headers:

Accept – application/json

Request JSON Ob- • user_token (string) – User Token returned from the /login API.

ject:

selected device uuid (string) – UUID of device

```
{"results": {
  "format": "openag-phased-environment-v1",
  "version": "0.1.2",
  "creation_timestamp_utc":
 "2018-07-19T16:54:24:44Z",
 "name": "Get Growing - Basil Recipe",
 "uuid": "e6085be7-d496-43cc-8bd3-3a40a79e854e",
  "parent recipe uuid": "37dc0177-076a-4903-8557-c7586e42e90e",
  "support recipe uuids": null,
 "description": {
      "brief": "Grows basil.",
      "verbose": "Grows basil."
  "authors": [{"name": "OpenAgTest", "uuid": "1e91ef7d-e9c2-4b0d-8904-f262a9eda70d", " "cultivars": [{"name": "Basil/Sweet Basil", "uuid": "02b0328f-ff19-44a8-a8b8-cd13cf6
  "cultivation_methods": [{"name": "Shallow Water Culture", "uuid": "45fa509b-2008-410
  "environments": {"standard_day": {
                        "name": "Standard Day",
                        "spectrum key": "flat",
                        "light spectrum_nm_percent": {"380-399": 2.03, "400-499": 20.3,
                        "light ppfd_umol_m2_s": 300,
                        "light_illumination_distance_cm": 10,
                        "air_temperature_celcius": 22
                    },
```

```
"standard_night": {
                      "name": "Standard Night",
                      "spectrum_key": "off",
                      "light_spectrum_nm_percent": {"380-399": 0.0, "400-499": 0.0, "5
                      "light_ppfd_umol_m2_s": 0,
                      "light_illumination_distance_cm": 10,
                      "air_temperature_celcius": 22
                  "cold_day": {"name": "Cold Day", "spectrum_key": "flat", "light_spec
                  "frost_night": {"name": "Frost Night", "spectrum_key": "off", "light
              },
              "phases": [{"name": "Standard Growth",
                          "repeat": 29,
                          "cycles": [{"name": "Day", "environment": "standard_day", "d
                                      {"name": "Night", "environment": "standard night
                          {"name": "Frosty Growth",
                          "repeat": 1,
                          "cycles": [{"name": "Day", "environment": "cold day", "durat
                                      {"name": "Night", "environment": "frost_night",
                          }]
"response_code": 200}
```

POST /api/get current stats/

Get the current sensor readings.

Request Headers:

Accept – application/json

Request JSON Ob- user token (string) – User Token returned from the /login API.

ject:

• selected_device_uuid (string) - UUID of device

Example Response:

```
{
  "results": {
      "current_co2": "23",
      "current_temp": "27",
      "current_rh": "50.1",
      "current_h20_ec": "4.4",
      "current h20 ph": "7.1",
      "current_h20_temp": "25.0"
  "response_code": 200
}
```

POST /api/get device images/

Returns all images associated with device.

Request Headers: Accept – application/json

Request JSON Ob-• **user_token** (*string*) – User Token returned from the /login API.

iect: • device uuid (string) – Device UUID

Example response:

```
"image_urls": ["URL1", "URL2"],
"response_code": 200
```

POST /api/get temp details/

Get historical temperature (and humidity) time series data.

Request Headers: Accept – application/json **Request JSON Ob-** • user_token (*string*) – User Token returned from the /login API.

ject: • selected_device_uuid (string) – Device UUID to get the Temp/RH data for

Example response:

POST /api/get user devices/

Get all devices associated with a user account.

Request Headers: • Accept – multipart/form-data

Request JSON Ob- • user_token (*string*) – User Token returned from the /login API.

ject:

Example Response:

```
{
    "results": {
        "devices": [
                "device_uuid": "EDU-9F2BEEEF-ac-de-48-00-11-22",
                "device_notes": "",
                "device_type": "EDU",
                "device reg no": "9F2BEEEF",
                "registration_date": "2019-04-29 20:09:10",
                "user_uuid": "d2c7fe68-e857-4c4a-98b4-7e88154ddaa6",
                "permissions": "control",
                "device_name": "Steve's Mac",
                "peripherals": ""
            },
                "device_uuid": "EDU-F3D9051D-b8-27-eb-0a-43-ee",
                "device_notes": "",
                "device_type": "EDU",
                "device_reg_no": "F3D9051D",
                "registration date": "2019-04-08 13:18:58",
                "user uuid": "d2c7fe68-e857-4c4a-98b4-7e88154ddaa6",
                "permissions": "control",
                "device_name": "Green-Frog-Bates",
                "peripherals": ""
            }1,
        "user uuid": "d2c7fe68-e857-4c4a-98b4-7e88154ddaa6"
    "response_code": 200
}
```

POST /api/get device types/

Get a list of all device types.

Request Headers: • Accept – application/json

Request JSON Ob- • user_token (*string*) – User Token returned from the /login API.

ject:

Example Response:

```
{
   "results": [{
        "name": "EDU",
        "device_type_id": "Type-UUID",
        "peripherals": ["P1-UUID", "P2-UUID", "P3-UUID"]
     }],
   "response_code": 200
}
```

POST /api/apply_to_device/

Run a recipe on a device.

Request Headers: • Accept – application/json

Request JSON Ob- • user_token (*string*) – User Token returned from the /login API.

ject: • device_uuid (string) – UUID of device to apply recipe to

• recipe_uuid (string) – UUID of recipe to run

Example response:

```
{
   "response_code": 200
}
```

POST /api/get_co2_details/

Return a time series of historical co2 data.

Request Headers: • Accept – application/json

Request JSON Ob- user_token (string) – User Token returned from the /login API.

ject: • selected_device_uuid (string) – Device UUID to get the CO2 data for

Example response:

POST /api/get plant types/

Get known plant types. For the recipe editor.

POST /api/get all recipes/

Retrieve all recipes for a user account.

Request Headers: Accept – application/json

Request JSON Ob- • user_token (*string*) – User Token returned from the /login API.

ject:

Example response:

```
{
     "results": ["recipe", "recipe"],
"devices": ["device", "device"],
     "user uuid": "UUID-For-User",
     "response-code": 200
```

Example Recipe:

```
"name": "Get Growing - Basil Recipe",
  "description": "Grows basil.",
  "recipe uuid": "e6085be7-d496-43cc-8bd3-3a40a79e854e",
  "recipe_json": {"Recipe in": "JSON format"},
  "user_uuid": "1e91ef7d-e9c2-4b0d-8904-f262a9eda70d",
  "image_url": "http://via.placeholder.com/200x200",
  "saved": true
}
```

Example Device:

```
"device name": "Green-Frog-Bates",
"device_notes": "",
"device reg no": "F3D9051D",
"device_type": "EDU",
"device uuid": "EDU-F3D9051D-b8-27-eb-0a-43-ee",
"registration_date": "2019-04-08 13:18:58",
"user uuid": "d2c7fe68-e857-4c4a-98b4-7e88154ddaa6"
```

POST /api/submit recipe/

Convert the users recipe selections into a properly formatted recipe to be saved and sent to the specified device. Not currently used.

Request Headers:

Accept – application/json

Request JSON Ob- • user_token (string) – User's Token.

ject:

device_uuid (string) – User's device.

• state (string) – JSON recipe options.

image_url (string) – URL for a picture of the plant this recipe grows.

Example response:

```
"message": "yay",
"response_code": 200
```

POST /api/upload images/

Upload an image for use in the user profile and recipe.

Request Headers:

Accept – multipart/form-data

Request JSON Object:

• file (string) - Form posted base64 encoded binary file

• type (string) – 'user' or 'recipe'

• user_token (string) – User Token returned from the /login API.

Example response:

```
"url": "public URL of the uploaded image",
   "message": "done",
   "response_code": 200
}
```

POST /api/get_user_info/

Get user profile information.

Request Headers:

Accept – application/json

Request JSON Ob-

• **user_token** (*string*) – User Token returned from the /login API.

ject:

Example Response:

```
"profile_image": null,
    "username": "exampleuser",
    "email_address": "user@example.org",
    "organization": "Example Foundation",
    "response_code": 200
}
```

POST /api/register/

Register a Food Computer and associate it with a user account.

Request Headers:

• Accept - application/json

Request JSON Obiect: • user_token (string) – User Token, to associate this device with

• **device_name** (*string*) – User specified name for the device ('minel')

• **device_reg_no** (*string*) – Key from the device registration process

• **device_notes** (*string*) – User specified notes about the device ('blue')

• device_type (string) - PFC_EDU, FS, etc.

Example response:

```
{
   "response_code": 200
}
```

POST /api/signup/

Create a user account.

Request Headers:

Accept – application/json

Request JSON Ob-

• username (string) - Users login name

ject:

• email_address (string) - Users email address

• password (string) – Users password

• **organization** (*string*) – Users organization (self chosen)

```
{
  "response_code": 200
}
```

POST /login/

Log a user into this API, returns a session token.

Request Headers: • Accept – application/json

Request JSON Ob- username (string) – Users username (from the /api/signup API call)

ject: • password (string) – Users password (from the /api/signup API call)

Example response:

```
{
   "user_uuid": "Users UUID from the registration process",
   "user_token": "token string",
   "is_admin": False
   "message": "Login Successful"
   "response_code": 200
}
```

GET /viewImage/(imageData)

Generate a small image page for tweeting. Returns HTML.

Request Headers: • Accept – application/json

Request JSON Ob- • i (string) – Image URL to show in the tweet.

ject: • t (string) – Text to display in the tweet.

Search

Search Page