HelseFlora API

Note 1: All requests to the API must include the group key as a query (URL-variable), e.g.:

https://helseflora.herokuapp.com/categories?key= ABCDEF01

Replace *ABCDEF01* with your group key.

Note 2: The documentation uses the term "logged in user". This means that the user possesses a valid token (at the client-side) for authorization (usually by storing the token in localStorage).

Note 3. Time is stored as Zulu time on the server side. You should convert it to local time at the client side. This is usually done automatically if you use the *Date*-object in JavaScript.

Content

Info lists

1. List plant categories

GET to https://helseflora.herokuapp.com/categories

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Example: https://helseflora.herokuapp.com/categories?key=ABCDEF01

Response data

JSON formatted array with plant categories ordered by *id*.

2. List plant zones

GET to https://helseflora.herokuapp.com/plantzones

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Example: https://helseflora.herokuapp.com/plantzones?key=ABCDEF01

Response data

JSON formatted array with plant zones ordered by *id*.

3. List shipping methods

GET to https://helseflora.herokuapp.com/shipping

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Example: https://helseflora.herokuapp.com/shipping?key=ABCDEF01

Response data

JSON formatted array with shipping methods ordered by *id*.

Plants

4. List plants

GET to https://helseflora.herokuapp.com/plants

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
category	Category ID, lists all the plants in the given category
search	a search word, lists all plants that have the search word in the name. If *search* is combined with *category*, only plants in the given category is listed
id	a plant ID. Lists the plant that has the given ID

Headers	
Name	**Value**
authorization (optional)	A valid token. You get the token when you log in as administrator or an ordinary user (see *Administrator login* and *User login* in the API documentation). Plants that are reserved for users will also be listed when you supply the token.

Examples:

https://helseflora.herokuapp.com/plants?key=ABCDEF01

https://helseflora.herokuapp.com/plants?category=2&key=ABCDEF01

https://helseflora.herokuapp.com/plants?search=myr&key=ABCDEF01

https://helseflora.herokuapp.com/plants?id=12&key=ABCDEF01

Response data
JSON formatted array with plants ordered by *name*.

Note: The array contains a thumb image of each plant. The image is encoded to Base64 text and can be included in a webpage by using a normal *img*-tag. Just set the *src*-attribute to the Base64 encoded image.

If the array contains only one plant, it will also contain a property named *image* with a larger image of the plant. This image is also encoded to Base64.

5. Administrator login

POST to https://helseflora.herokuapp.com/users/adminlogin

To be able to add, change and delete plants, you must be logged in as administrator.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization (required)	*A Basic authentication string*. The username and password must be encoded to a *Basic authentication* string. You can use the function below to do this.

```
function createBasicAuthString(username, password) {
    let combinedStr = username + ":" + password;
    let b64Str = btoa(combinedStr);
    return "basic " + b64Str; //return the basic authentication string
}
```

Response data

Logindata as JSON. The data includes the username and a thumb-image the user. The logindata also includes a *token* (a string) that is used to authenticate as administrator. For example, you are required to supply the token when you are adding, changing, and deleting plants.

6. Add a plant

POST to https://helseflora.herokuapp.com/plants

Note: Each project group can only add 40 new plants to the database. If you want to add more plants, you must delete some of the old ones.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as administrator (see *Administrator login* in the API documentation).

Formdata (enctype=multipart/form-data) in body	
Fields (name)	**Value**
name (required)	The name of the plant
category_id	The category ID. If not supplied, it is set to 1 (Not categorized)
description	A description of the plant
img_file	An image file (PNG or JPG). Max size is 1MB. If not supplied a default image is used. The image is resized to a 300 x 300 pixels image, and a 80 x 80 pixels thumb image on the server.
price	The price of the plant. If not supplied, it is set to 0
discount	Discount in percent. If not supplied, it is set to 0
height	The maximum height of the plant in cm. If not supplied, it is set to 0
zone_id	The plant zone ID. If not supplied, it is set to 2 (zone 2)
min_temp_day	Minimum day-temperature for planting. If not supplied, it is set to 10
min_temp_night	Minimum night-temperature for planting. If not supplied, it is set to 2
nitrogen	Recommended percentage in fertilizer. If not supplied, it is set to 50
potassium	Recommended percentage in fertilizer. If not supplied, it is set to 40
phosphor	Recommended percentage in fertilizer. If not supplied, it is set to 10
stock	The number of plants in stock. If not supplied, it is set to 0
expected_shipped	The date for shipping. If not supplied, it is set to the current date. The data must be a valid date in as standard format, e.g., YYYY-MM-DD or DD.MM.YYYY
reserved_members	Available for members only (true/false). If not supplied, it is set to *false*
extra_1	Custom information about the plant (text)
extra_2	Custom information about the plant (number)
extra_3	Custom information about the plant (text). You must be logged in as administrator to see this field when you list plants.
extra_4	Custom information about the plant (number). You must be logged in as administrator to see this field when you list plants.

Response data

The data for the plant that was added in JSON-format.

7. Change a plant

PUT to https://helseflora.herokuapp.com/plants

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as administrator (see *Administrator login* in the API documentation).

Formdata (enctype=multipart/form-data) in body	
Fields (name)	**Value**
id (required)	The ID of the plant that should be changed
name	If not supplied, the original value is not changed.
category_id	If not supplied, the original value is not changed.
description	If not supplied, the original value is not changed.
img_file	An image file (PNG or JPG). Max size is 1MB. If not supplied, the original image is not changed. The image is resized to a 300 x 300 pixels image, and a 80 x 80 pixels thumb image on the server.
price	If not supplied, the original value is not changed.
discount	If not supplied, the original value is not changed.
height	If not supplied, the original value is not changed.
zone_id	If not supplied, the original value is not changed.
min_temp_day	If not supplied, the original value is not changed.
min_temp_night	If not supplied, the original value is not changed.
nitrogen	If not supplied, the original value is not changed.
potassium	If not supplied, the original value is not changed.
phosphor	If not supplied, the original value is not changed.
stock	If not supplied, the original value is not changed.
expected_shipped	If not supplied, the original value is not changed. The data must be a valid date in as standard format, e.g., YYYY-MM-DD or DD.MM.YYYY
reserved_members	If not supplied, the original value is not changed.
extra_1	If not supplied, the original value is not changed.
extra_2	If not supplied, the original value is not changed.
extra_3	If not supplied, the original value is not changed.
extra_4	If not supplied, the original value is not changed.

Response data

The data for the plant that was changed in JSON-format.

8. Delete a plant

DELETE to https://helseflora.herokuapp.com/plants

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
plant_id	The ID of the plant that should be deleted

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as administrator (see *Administrator Login* in the API documentation)

Response data

The data for the plant that was deleted in JSON-format.

Orders

9. List orders

GET to https://helseflora.herokuapp.com/orders

Note: there will be no orders in the database before you have added some.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as administrator or an ordinary user (see *Administrator login* and *User login* in the API documentation). For an administrator, all the orders will be listed. For an ordinary user, only the (logged-in) users orders will be listed.

Response data

JSON formatted array with orders ordered by *date*.

10. Add an order

POST to https://helseflora.herokuapp.com/orders

Note: Each project group can only add 40 orders to the database. If you want to add more orders, you must delete some of the old ones.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization	A valid token. You get the token when you log in as an ordinary user. If supplied, the order vil be registered with a user ID.
content-type	*application/json*

Object as JSON in body	
Fields (name)	**Value**
customer_name (required)	The name of the customer
street (required)	The street in the customer address
city (required)	The city in the customer address
zipcode (required)	The zip code in the customer address
shipping_id (required)	The type of shipping. (See the *3. List shipping methods*)
content (required)	The order content. It is recommended that you use JSON-text

Response data

The data for the order that was added in JSON-format. The data will also contain a unique order number that has been generated on the server.

11. Delete an order

DELETE to https://helseflora.herokuapp.com/orders

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
Id (required)	The ID for the order that should be deleted

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as administrator.

Response data

The data for the order that was deleted in JSON-format.

Users

12. List users

GET to https://helseflora.herokuapp.com/users

Note: lists ordinary users (members) – not administrators. There will be no users in the database before you have added some.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
userid	List the user with the given ID

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as administrator or an ordinary user. If no *userid* is supplied, all users are listed. If *userid* is supplied, the user with the given ID is listed.

Response data

JSON formatted array with users ordered by *username*.

13. Add a user

POST to https://helseflora.herokuapp.com/users

Note: Each project group can only add 40 users to the database. If you want to add more use, you must delete some of the old ones. Be aware that no authorization is required when you create a new user.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Formdata (enctype=multipart/form-data) in body	
Fields (name)	**Value**
username (required)	Username
password (required)	Password
fullname (required)	The full name
street (required)	The street in the user's address
city (required)	The city in the user's address
zipcode (required)	The zip code in the user's address
country (required)	The country in the user's address
img_file	An image file (PNG or JPG). Max size is 1MB. If not supplied a default image is used. The image is resized to a 80 x 80 pixels thumb image on the server.

Response data

The data for the user that was added in JSON-format.

14. Change a user

POST to https://helseflora.herokuapp.com/users

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as an ordinary user. Only the user that is logged in can change his/her own user data.

Formdata (enctype=multipart/form-data) in body	
Fields (name)	**Value**
username (required)	Username
password	If not supplied, the original password is used.
fullname (required)	The full name
street (required)	The street in the user's address
city (required)	The city in the user's address
zipcode (required)	The zip code in the user's address
country (required)	The country in the user's address
img_file	An image file (PNG or JPG). Max size is 1MB. If not supplied, the original image is used.

Response data

The data for the user that was changed in JSON-format.

15. User login

POST to https://helseflora.herokuapp.com/users/adminlogin

To be able to add to see reserved plants, write comments about plants and write messages to other users, she/he must be logged in as a user.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization (required)	The username and password must be encoded to a *Basic authentication* string. You can use the function below to do this.

```
function createBasicAuthString(username, password) {
    let combinedStr = username + ":" + password;
    let b64Str = btoa(combinedStr);
    return "basic " + b64Str; //return the basic authentication string
}
```

Response data

Logindata as JSON. The data includes the username and a thumb-image of the user. The logindata also includes a *token* (a string) that is used to authenticate as the user. For example, you are required to supply the token when you are writing comments and messages to other users.

16. Delete a user

DELETE to https://helseflora.herokuapp.com/users

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
Id	The ID for the user that should be deleted

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as administrator or an ordinary user. If you are logged in as administrator, you can supply the *id* to delete the given user. If you are logged in as a normal user, you are only able to delete yourself. You should not supply the *id* in this case.

Response data

The data for the user that was deleted in JSON-format.

Comments

17. List comments

GET to https://helseflora.herokuapp.com/comments

Note: These are comments that users have written for different plants. There will be no comments in the database before you have added some.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
plant_id	The id of a plant you want to list comments for. *plant_id* is required if authorization is not supplied.

Headers	
Name	**Value**
authorization	A valid token. You get the token when you log in as administrator or an ordinary user. If the *plant_id* is not supplied and administrator is logged in, all the comments are listed (for all plants and users). If the *plant_id* is not supplied and an ordinary user is logged in, all the comment that the logged in user has created is listed (for all plants).

Response data

JSON formatted array with comments ordered by *plant ID* and *date*.

18. Add a comment

POST to https://helseflora.herokuapp.com/comments

Note: Each project group can only add 40 comments to the database. If you want to add more comments, you must delete some of the old ones.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as an ordinary user or administrator.
content-type	*application/json*

Object as JSON in body	
Fields (name)	**Value**
comment_text (required)	The content text of the comment
rating (required)	Rating for the plant. A number between 1 and 5. When you list plants, the average rating is calculated from all comments and is shown in the *rating*-field for each plant.
plant_id (required)	The plant ID the comment is related to. Only one comment is allowed for each plant (for each user).

Response data

The data for the comment that was added in JSON-format.

19. Delete a comment

DELETE to https://helseflora.herokuapp.com/comments

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
comment_id (required)	The ID for the comment that should be deleted

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as administrator or an ordinary user. If you are logged in as administrator, you can delete any comment. If you are logged in as a normal user, you are only able to delete comments that you have created yourself.

Response data

The data for the comment that was deleted in JSON-format.

Messages

20. List messages

GET to https://helseflora.herokuapp.com/messages

Note: These are messages that users have written to share with other users. There will be no messages in the database before you have added some.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
all	*true* or *false*. If set to *true*, all messages are listed and sorted by message *thread* and date in descending order. The *thread* is an identifier (integer number) that is used to "group" (sort) messages. If *all* is not supplied, or set to something else than *true*, only the messages for the logged in user are listed and sorted by date in ascending order.
asc	*true* or *false*. Controls if the messages are sorted in ascending or descending order. If *asc* is set to *true*, the messages are sorted in ascending order. If it is not supplied, or set to something else than *true*, the messages are sorted in descending order. *asc* has no effect if *all* is false.
thread	If supplied, all the messages in the given thread are listed sorted on date in ascending order. The message that started the thread is listed first. If *thread* is supplied, *all* and *asc* have no effect.

Headers	
Name	**Value**
Authorization (required)	A valid token. You get the token when you log in as an ordinary user or administrator.

Response data

JSON formatted array with the messages.

21. Add a message

POST to https://helseflora.herokuapp.com/messages

Note: Each project group can only add 40 messages to the database. If you want to add more messages, you must delete some of the old ones.

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
thread	An identifier (integer number) that is used to "group" (sort) messages (see *List messages* in this documentation). If not supplied, a new thread (a new number in sequence) is created automatically. If supplied, but the thread doesn't exist, an error is thrown.

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as an ordinary user or administrator.
content-type	*application/json*

Object as JSON in body	
Fields (name)	**Value**
heading (required)	A heading (no: overskrift) for the message
message_text (required)	The message text

Response data

The data for the message that was added in JSON-format.

22. Delete a message

DELETE to https://helseflora.herokuapp.com/messages

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key
message_id (required)	The ID for the message that should be deleted

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as an ordinary user or administrator. If you are logged in as administrator, you can delete any message. If you are logged in as a normal user, you are only able to delete messages that you have created yourself.

Response data

The data for the message that was deleted in JSON-format.

MeowMeowBeenz – extension of users

MeowMeowBeenz makes it possible for users to rate other users. The rating is given as a number between 1 and 5.

The current rating of a user influences the weight of the rating she/he gives other users. E.g., if a user has a rating of 4, the rating he/she gives other users weighs 4 times more than a user with a rating of 1.

A user can only give one rating for another user (but it is possible to change the rating). It is not possible to rate yourself.

The rating is shown in the *beenz*-property when you list users. This is the averaged rating given from other users. The *beenz*-property is *null* if the user hasn't been rated by anyone.

Note: Each project group can only add 40 beenz to the database. If you want to add more beenz, you must delete some of the old ones.

23. Add/change MeowMeowBeenz (give a rating to another user)

PUT to https://helseflora.herokuapp.com/beenz

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as an ordinary user. Administrators are not allowed to rate users.
content-type	*application/json*

Object as JSON in body	
Fields (name)	**Value**
userid (required)	The user you will rate/judge
beenz (required)	A number between 1 and 5

Response data

The data for the beenz that was added/changed in JSON-format.

24. Delete MeowMeowBeenz

DELETE to https://helseflora.herokuapp.com/beenz

Request data

Queries (URL-variables)	
Name	**Value**
key (required)	Your group key

Headers	
Name	**Value**
authorization (required)	A valid token. You get the token when you log in as an ordinary user or administrator. NB! If you are logged in as administrator, all the beenz for all users are deleted! If you are logged in as a normal user, all the beenz you (as the logged in user) have given others are deleted.

Response data

The data for the beenz that was deleted in JSON-format.