FAVS API DOCUMENTATION

Favs is a new company that aims to provide a better way to organize your favorite things: music, clothes, courses, etc., all in one place.

DESCRIPTION

Favs API allows people to create a list of favorites of everything like movies, series, music, etc. The database consists of two tables, one for the user and the other for the lists of favorites. Also, it was deploy in heroku so we can test all the methods from this url: **https://favs-api-renzo.herokuapp.com/**

HOW TO RUN THE PROJECT LOCALLY

For someone that want to run project locally:
- Clone repository from https://github.com/RenzoEMH/Assesment_back_end
- Open your IDE and in a terminal type:
    - *npm install*
    - *npm start*
- Open postman or another program to test the endpoints

METHODS

1. **Register user:**
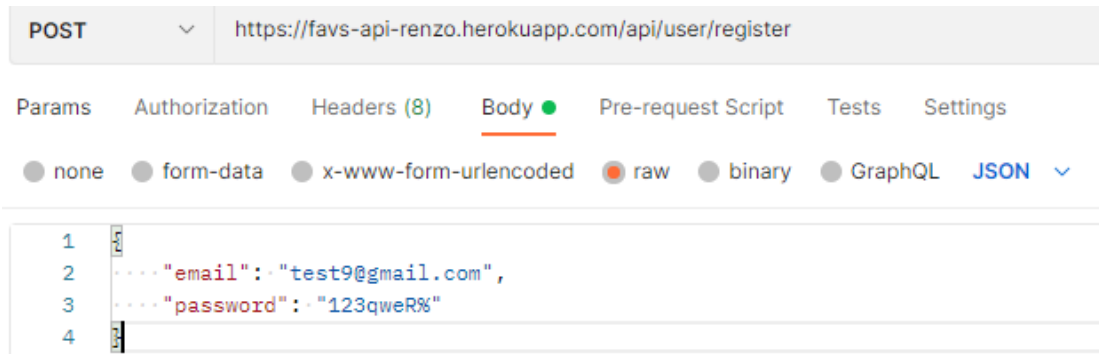   *This method creates a new user in order to access to functionalities of the API*
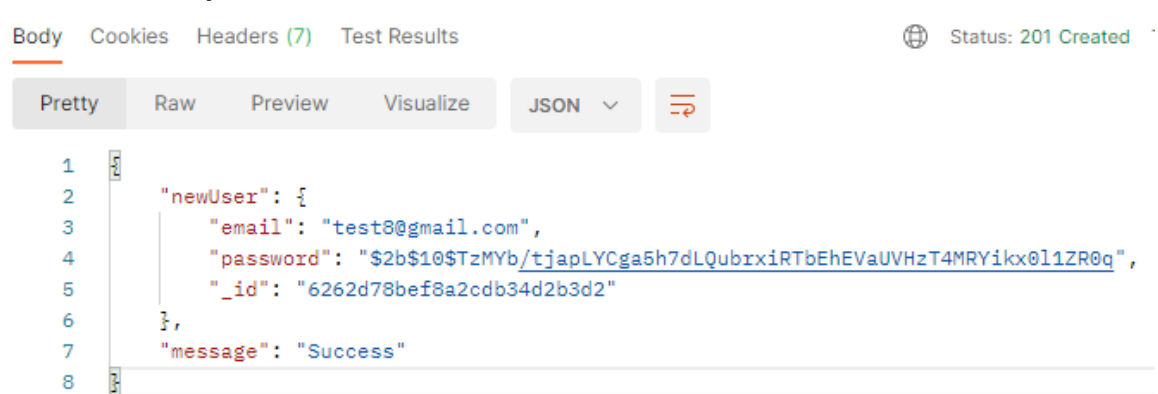
   URL: https://favs-api-renzo.herokuapp.com/api/user/register
   Type: POST

   Input parameters:

Parameter	Type	Description
email	**string**	**The email is a mandatory field and can´t be repeated**
password	**string**	**The password should have at least 1 uppercase, 1 lowercase letter, 1 number, 1 symbol with a minimum length of 8 characters.**

Query:


```
POST               ∨     https://favs-api-renzo.herokuapp.com/api/user/register
```

```
Params    Authorization    Headers (8)    Body ●    Pre-request Script    Tests    Settings

● none    ● form-data    ● x-www-form-urlencoded    ● raw    ● binary    ● GraphQL    JSON ∨
```

```
1  {
2      "email": "test9@gmail.com",
3      "password": "123qweR%"
4  }
```

Successful response:

```
Body    Cookies    Headers (7)    Test Results                    ⊕ Status: 201 Created

Pretty    Raw    Preview    Visualize    JSON ∨    ⇥

1  {
2      "newUser": {
3          "email": "test8@gmail.com",
4          "password": "$2b$10$TzMYb/tjapLYCga5h7dLQubrxiRTbEhEVaUVHzT4MRYikx0l1ZR0q",
5          "_id": "6262d78bef8a2cdb34d2b3d2"
6      },
7      "message": "Success"
8  }
```

Response failure: *Depending on the error this are the posibles messages*
Status Code 400:
- **message:** "Email is a mandatory field"
- **message:** "Email already registered"
- **message:** "Password must contain 8 characters including numbers, capital letters and special characters"

Status Code 500:
- **message:** "Internal server error"

2. **Login:**
   This method allows to login and generate a Token necessary for the other methods

   URL: https://favs-api-renzo.herokuapp.com/api/auth/local/login
   Type: POST

   Input parameters:

Parameter	Type	Description
email	string	The email is a mandatory field, this must be registered
password	string	The password is a mandatory field, should match with the email given

Query:

POST | https://favs-api-renzo.herokuapp.com/api/auth/local/login

Params   Authorization   Headers (8)   **Body** ●   Pre-request Script   Tests   Settings

● none   ● form-data   ● x-www-form-urlencoded   ● raw   ● binary   ● GraphQL   **JSON** ∨

```
1  {
2      "email": "test@gmail.com",
3      "password": "123qweR%"
4  }
```

Successful response:

Body   Cookies   Headers (7)   Test Results   ⊕ 200 OK   155 ms   449 B   **Save Response**

Pretty   Raw   Preview   Visualize   JSON ∨   ⇄

```
1  {
2      "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
          eyJlbWFpbCI6InRlc3RAZ21haWwuY29tIiwiaWQiOiI2MjU5ZjRmMDUxOTdjNjlhNjA2ZmYwMzAiLCJpYXQiOjE2NTA2NDcxOTR9.
          GXNmMspbpwBtRBkzfhmaSDT00YQJk8T8mWqB9B1ayNQ",
3      "message": "success"
4  }
```

Response failure: *Depending on the error this are the posibles messages*

    Status Code 403:
-   **message:** "Email doesn't exist"
-   **message:** "Invalid password or email"

    Status Code 500:
-   **message:** "Internal server error"

3. **Get all users:**

This method returns all the user registered in the database

URL: **https://favs-api-renzo.herokuapp.com/api/user**
Type: **GET**

Header: Token is given in login method

Key	Value
Authorization	Bearer TOKEN

Query:

GET	∨	https://favs-api-renzo.herokuapp.com/api/user

Params   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings

Headers   👁 6 hidden

	KEY	VALUE
☑	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJIbWFpbCI6InRlc3RAZ21haW wuY29tIiwiaWQiOiI2MjU5ZjRmMDUxOTdjNjlhNjA2ZmYwMzAiLCJpYXQiOj E2NTAwNjQ5NzN9.uwUfDtLUvf6O-
	Key	

Successful response:

Body   Cookies   Headers (7)   Test Results   🌐 200 OK 102 ms 1.12 KB   Save F

Pretty   Raw   Preview   Visualize   JSON ∨   ⇥

```
 1  {
 2      "message": "success",
 3      "users": [
 4          {
 5              "_id": "6259f4f05197c69a606ff030",
 6              "email": "test@gmail.com",
 7              "password": "$2b$10$WY/2W9KsuNVzJfYrdhIHkug565TP5HLT0qn07NhRvxypnzgdbyEWq",
 8              "createdAt": "2022-04-15T22:42:56.266Z",
 9              "updatedAt": "2022-04-15T22:42:56.266Z",
10              "__v": 0
11          },
12          {
13              "_id": "6259f51cc08f21d34d2563df",
14              "email": "test2@gmail.com",
15              "password": "$2b$10$2SIGM4cMOikgmgToZ9fcyuD4dGFoVlpgkUix5V1ld8p/R.H/wMGx2",
16              "createdAt": "2022-04-15T22:43:40.982Z",
17              "updatedAt": "2022-04-15T22:43:40.982Z",
18              "__v": 0
19          },
```

Response failure: *Depending on the error this are the posibles messages*
Status Code 204:
   - **message:** "users not fund"
Status Code 403:
   - **message:** "Invalid token"
Status Code 500:
   - **message:** "Internal server error"

4. Get all lists of favs:
This method returns all the list of favs in the database

URL: https://favs-api-renzo.herokuapp.com/api/favs
Type: GET

Header: Token is given in login method

Key	Value
Authorization	Bearer TOKEN

Query:

Successful response:

Response failure: *Depending on the error this are the posibles messages*
Status Code 403:
   - **message:** "Invalid token"
Status Code 500:
   - **message:** "Internal server error"

5. **Get one list of fav:**
   This method returns one list of fav depending on the id given

   URL: https://favs-api-renzo.herokuapp.com/api/favs/:id
   Type: GET

   Header: Token is given in login method

Key	Value
Authorization	Bearer TOKEN

Query:


```
GET   ∨   https://favs-api-renzo.herokuapp.com/api/favs/625a06311a73109a41aa91ad
```

Params   Authorization   **Headers (7)**   Body   Pre-request Script   Tests   Settings

Headers   👁 6 hidden

	KEY	VALUE
☑	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJlbWFpbCI6InRlc3RAZ...
	Key	Value

Successful response:

Body ∨   🌐 200 OK   106 ms   1.15 KB

Pretty   Raw   Preview   Visualize   JSON ∨   ⇄

```
 1  {
 2      "list": {
 3          "_id": "625a06311a73109a41aa91ad",
 4          "name": "Series",
 5          "idUser": "6259f51cc08f21d34d2563df",
 6          "favs": [
 7 >              {...
14              },
15 >              {...
22              },
23 >              {...
30              },
31 >              {...
38              }
39          ],
40          "createdAt": "2022-04-15T23:56:33.712Z",
41          "updatedAt": "2022-04-16T00:29:30.400Z",
42          "__v": 1
43      },
44      "message": "success"
45  }
```

Response failure: *Depending on the error this are the posibles messages*
Status Code 403:
- **message:** "Invalid token"
Status Code 500:
- **message:** "Internal server error"

6. **Get all list of favs by user:**
This method returns all lists created by a user

URL: **https://favs-api-renzo.herokuapp.com/api/favs/user/:id**
Type: **GET**

Header: Token is given in login method

Key	Value
Authorization	**Bearer TOKEN**

Query:

Successful response:

Response failure: *Depending on the error this are the posibles messages*
Status Code 403:
   - **message:** "Invalid token"
Status Code 500:
   - **message:** "Internal server error"

7. **Create a list of fav:**
   This method creates a new list of favorites

   URL: https://favs-api-renzo.herokuapp.com/api/favs
   Type: POST

   Header: Token is given in login method

Key	Value
Authorization	Bearer TOKEN

Input parameters:

Parameter	Type	Description
name	string	Name for the new list
idUser	idObject	ID of the user
favs	array	List of favs that will be include in the list

- Parameters of favs:

Parameter	Type	Description
title	string	Title of the fav
description	string	Description of the fav
link	string	Link of the fav

Query:

POST	∨	https://favs-api-renzo.herokuapp.com/api/favs

Params   Authorization   Headers (9)   **Body** ●   Pre-request Script   Tests   Settings

⚪ none   ⚪ form-data   ⚪ x-www-form-urlencoded   🔴 raw   ⚪ binary   ⚪ GraphQL   **JSON** ∨

```
1   {
2       "name": "Courses",
3       "idUser": "6259f51cc08f21d34d2563df",
4       "favs": [
5           {
6               "title": "Science",
7               "description": "About science",
8               "link": "asdoklnlnkhgnplhg6756765"
9           },
10          {
11              "title": "Math",
12              "description": "About numbers",
13              "link": "asgtbdbdvsvsfd242342"
14          }
15      ]
16  }
```

Successful response:

Response failure: *Depending on the error this are the posibles messages*
Status Code 403:
-    **message:** "Invalid token"
Status Code 500:
-    **message:** "Internal server error"

8. **Delete a list of fav:**
   This method delete a list by an id given

   URL: https://favs-api-renzo.herokuapp.com/api/favs/:id
   Type: DELETE

   Header: Token is given in login method

Key	Value
Authorization	Bearer TOKEN

Query:

Successful response:

```json
{
    "message": "success",
    "deletedList": {
        "acknowledged": true,
        "deletedCount": 1
    }
}
```

Body   Cookies   Headers (7)   Test Results   200 OK   210 ms   309 B

Pretty   Raw   Preview   Visualize   JSON ∨

Response failure: *Depending on the error this are the posibles messages*
Status Code 204:
-    **message:** "No list to delete"
Status Code 403:
-    **message:** "Invalid token"
Status Code 500:
-    **message:** "Internal server error"

9. **Add favs to a specific list:**
    This method allows to add a favorite to an specific list

    URL: https://favs-api-renzo.herokuapp.com/api/favs/:id
    Type: PUT

    Header: Token is given in login method

Key	Value
Authorization	Bearer TOKEN

Input parameters:

Parameter	Type	Description
title	string	Title of the fav
description	string	Description of the fav
link	string	Link of the fav

Query:

| PUT | ∨ | https://favs-api-renzo.herokuapp.com/api/favs/625a3229e212c0f02523d0d5 |

Params   Authorization   Headers (9)   **Body** ●   Pre-request Script   Tests   Settings

⚪ none   ⚪ form-data   ⚪ x-www-form-urlencoded   🔴 raw   ⚪ binary   ⚪ GraphQL   **JSON** ∨

```
1  {
2  ····"title": "History",
3  ····"description": "About history",
4  ····"link": "asdafffafafafa"
5  }
```

Successful response:

Body ∨   🌐 200 OK   234 ms   359 B

Pretty   Raw   Preview   Visualize   JSON ∨   ⇄

```
1  {
2      "message": "success",
3      "result": {
4          "acknowledged": true,
5          "modifiedCount": 1,
6          "upsertedId": null,
7          "upsertedCount": 0,
8          "matchedCount": 1
9      }
10 }
```

Response failure: *Depending on the error this are the posibles messages*
Status Code 204:
-    **message:** "No list to delete"
Status Code 403:
-    **message:** "Invalid token"
Status Code 500:
-    **message:** "Internal server error"

TEST

Unit tests have been developed for all the endpoints. For run the tests, follow the next steps:
-    In a terminal type: *npm start*
-    In another terminal type: *npm run test*

Jest have been used for all the tests

Develop by Renzo Manrique