Backfeed Rest API Documentation

Release 0.1

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This API is still in development (on https://github.com/Backfeed/backfeed-restapi).

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REST API for the backfeed-protocol

1.1 Installation

You need pip installed:

sudo apt-get install python-pip

You can now either directly install from the github repository:

pip install git+https://github.com/Backfeed/backfeed-restapi.git

1.2 Starting a server

First you need to create an settings file. You can download it from the git repository:

wget https://raw.githubusercontent.com/Backfeed/backfeed-restapi/master/development.ini

You can then start the server like this:

pserve development.ini

The default settings will use a database that runs completely in memory, so you will loose any changes after restarting the server.

1.3 Contributing

See CONTRIBUTING.rst

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Data Model

The basic objects of the protocol as users, contributions and evaluations.

2.1 Users

Users have tokens, a number representing the amount of *ownership* of a contract, and reputation, a number that represents the user reputation within the system.

```
"id": 1,
    "reputation": 20.0,
    "reputation_normalized": 1.0,
    "tokens": 50.0,
    "total_reputation": 20.0
}
```

2.2 Contributions

A contribution has a contributor (which is the user that has made the contribution), a score which represents how much the contribution has been valued by the community, and engaged_reputation, a value between 0 and 1 that represents the sum of the reputation of the users that have evaluated the contribution.

```
"quality": 0.0,
    "score": 0.0
},
    "type": "article"
}
```

2.3 Evaluations

An evaluation of a contribution has an evaluator, which is the user that has made the evaluation, the contribution that the evaluation pertains to, and a value.

```
"contribution": {
    "contributor": {
        "id": 3,
       "reputation": 0.2506265664160401,
        "tokens": 49.0
    "id": 2,
    "stats": {
        "engaged_reputation": 0.2481203007518797,
        "evaluations": {
           "0": {
                "reputation": 0.0
            "1": {
                "reputation": 0.2481203007518797
        "quality": 0.2481203007518797,
        "score": 0.2481203007518797
    "type": "article"
},
"evaluator": {
   "id": 4,
    "reputation": 19.8,
   "reputation_normalized": 0.2481203007518797,
   "tokens": 50.0,
   "total_reputation": 79.8
},
"id": 1,
"value": 1.0
```

API Documentation

All services have a {contract} as a parameter. This is the name of the contract. The actual effect of adding contributions and evaluations in terms of tokens and reputation of users will depend on this contract name.

3.1 User Collection service at /{contract}/users

Users

3.1.1 **GET**

Get a list of users

Response: json

3.1.2 POST

values in the body

- reputation (float) (optional)
- tokens (float) (optional)
- referrer_id (int) (optional)

Create a new user.

Response: json

3.2 User Resource service at /{contract}/users/{id}

Users

3.2.1 **GET**

Get the user identified by id

Response: json

3.3 Contribution Collection service at /{contract}/contributions

Contributions

3.3.1 GET

values in the querystring

- contributor_id (int) (optional)
- order_by (str) (default: "-score")
- **limit** (int) (default: 100)
- start (int) (default: 0)

Get a list of contributions.

The parameter 'order_by' can take as its values:

- · score order by score
- -score order descendingly, by score
- time: the time the contribution was added
- · -time: last-added first

Response: json

3.3.2 POST

values in the body

• contributor_id (int)

Create a new contribution

Param contributor_id the id of the user that has made the contribution

Returns information about the new contribution

Response: json

3.4 Contribution Resource service at /{contract}/contributions/{id}

Contributions

3.4.1 **GET**

Get the contribution

Response: json

3.5 Evaluation Collection service at /{contract}/evaluations

Evaluations

3.5.1 **GET**

values in the querystring

- contribution_id (int) (optional)
- evaluator_id (int) (optional)

Get a list of users

Response: json

3.5.2 POST

values in the body

- value (int)
- evaluator_id (int)
- contribution_id (int)

Create a new evaluation.

Creating an evaluation will update tokens and reputation from the contributor, the evaluator, and previous evaluators.

Param evaluator_id required. The id of the user to that does the evaluation.

Param contribution_id required. The id of the contribution that is being evaluated

Param value required. This is a number - which values are accepted depends on the contract.

Returns information about the added evaluation

Response: json

3.6 Evaluation Resource service at /{contract}/evaluations/{id}

Evaluations

3.6.1 **GET**

Get evaluations from the contract

Response: json