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 barnsza Added Generic API

Latest commit e743dcb 11 days ago

 .gitignore	Public Commit	13 days ago
 README.md	Added Generic API	11 days ago
 demo.htm	Public Commit	13 days ago
 dummy_data.js	Public Commit	13 days ago
 generate_token.js	Public Commit	13 days ago
 package-lock.json	Public Commit	13 days ago
 package.json	Public Commit	13 days ago
 server.js	Added Generic API	11 days ago
 server_generic.js	Added Generic API	11 days ago

 README.md

Bank of the Sun Transaction API

NB: This is a dummy API for Student Projects

Endpoints

POST /user

Create new user, requires username/password combo.

```
{ "username": "someuser", "password": "somepassword" }
```

GET /apply

To be completed.

GET /clients

Retrieve clients for authenticated user.

Example client object:

```
[{  "_id": "36fc7b7f-dc97-46e2-a15c-a6ca810e1d1b",  "dob": "1970-09-02T09:30:57Z",  "email": "harold.ferguson@example.com",  "first": "harold",  "id": "PL 33 59 21 0",  "last": "ferguson",  "title": "mr",  "usernames": ["lazymeercat116"]}]
```

GET /accounts/:client

Retrieve accounts for specified client UUID.

Example account object:

```
[{
  "_id": "4d57aa2f-a0fb-39d7-b6ca-e584a7bc5324",
  "balance": 138400,
  "client": "36fc7b7f-dc97-46e2-a15c-a6ca810e1d1b",
  "description": "harold's cheque account",
  "type": "cheque"
}]
```

GET /transactions/:account/:search[[/:from]/:to]

Retrieve transactions for given accounts and search query. Search query is a regular expression. Specify `.*` for all transactions. `from` and `to` are optional, which should be javascript unix time stamps.

Examples:

```
http://api.url/transactions/4d57aa2f-a0fb-39d7-b6ca-e584a7bc5324/.*
http://api.url/transactions/4d57aa2f-a0fb-39d7-b6ca-e584a7bc5324/.*1539074878074
http://api.url/transactions/4d57aa2f-a0fb-39d7-b6ca-e584a7bc5324/.*1539074878074/1539074784664
```

Example transaction object:

```
[{
  "_id": "a43a1e1e-d0b5-3aa7-b063-73e42dd1c078",
  "amount": 106124,
  "balance": 106124,
  "dest": "febec4ad-3472-41ac-b43a-d31591ea978f",
  "ref": "402878",
  "src": "4d57aa2f-a0fb-39d7-b6ca-e584a7bc5324",
  "time": 1435533455204,
  "type": "credit"
}]
```

POST /transactions

Post a new transaction, requires a body object as below.

```
{
  "time": Unix Timestamp # Optional, for post-dated transactions,
  "type": Type of transaction, accepts all types,
  "src": Source Account,
  "dest": Destination Account or bank info (freeform text),
  "amount": Cents (integer),
  "ref": Reference Text
}
```

GET /generic/:id

Return an arbitrary object by ID. Object must be owned by current user.

DELETE /generic/:id

Delete and return an arbitrary object by ID. Object must be owned by current user.

POST /generic

Create a new object (specified as body). Note that a username and `_id` field will be computed automatically and will be replaced if they already exist.

Authentication

See `demo.htm` :

```
const user = 'lzymeercat116';
const password = 'hottest';

const hmac = new jsSHA('SHA-256', 'TEXT');
hmac.setHMACKey(password, 'TEXT');
hmac.update(user);
hmac.update(Date.now().toString(36).substring(0, 4));

const token = `${hmac.getHMAC('HEX')}%${user}`;
```

Generic API

The generic API contains a subset of these API calls but on port 8081. Only the three `/generic` calls are available as well as the create user call (`\user`). The three generic calls are renamed `/item` in this variant.