

FGB API DOCUMENTATION

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Overview

An API for Fullerton Markets generated with Java Spring Boot

Getting Started

Introduction

Our API development use the following tools:

- Java Development Kit
- IntelliJ IDE
- XAMPP
- Postman

Installation

You must have JDK , JAVA IDE and phpMyAdmin for accessing this project

Running Application

- **Project GitHub**




<https://github.com/andresetiawanAS/fgbapi.git>

- **Database**

MySQL Database

- **Dummy Data**

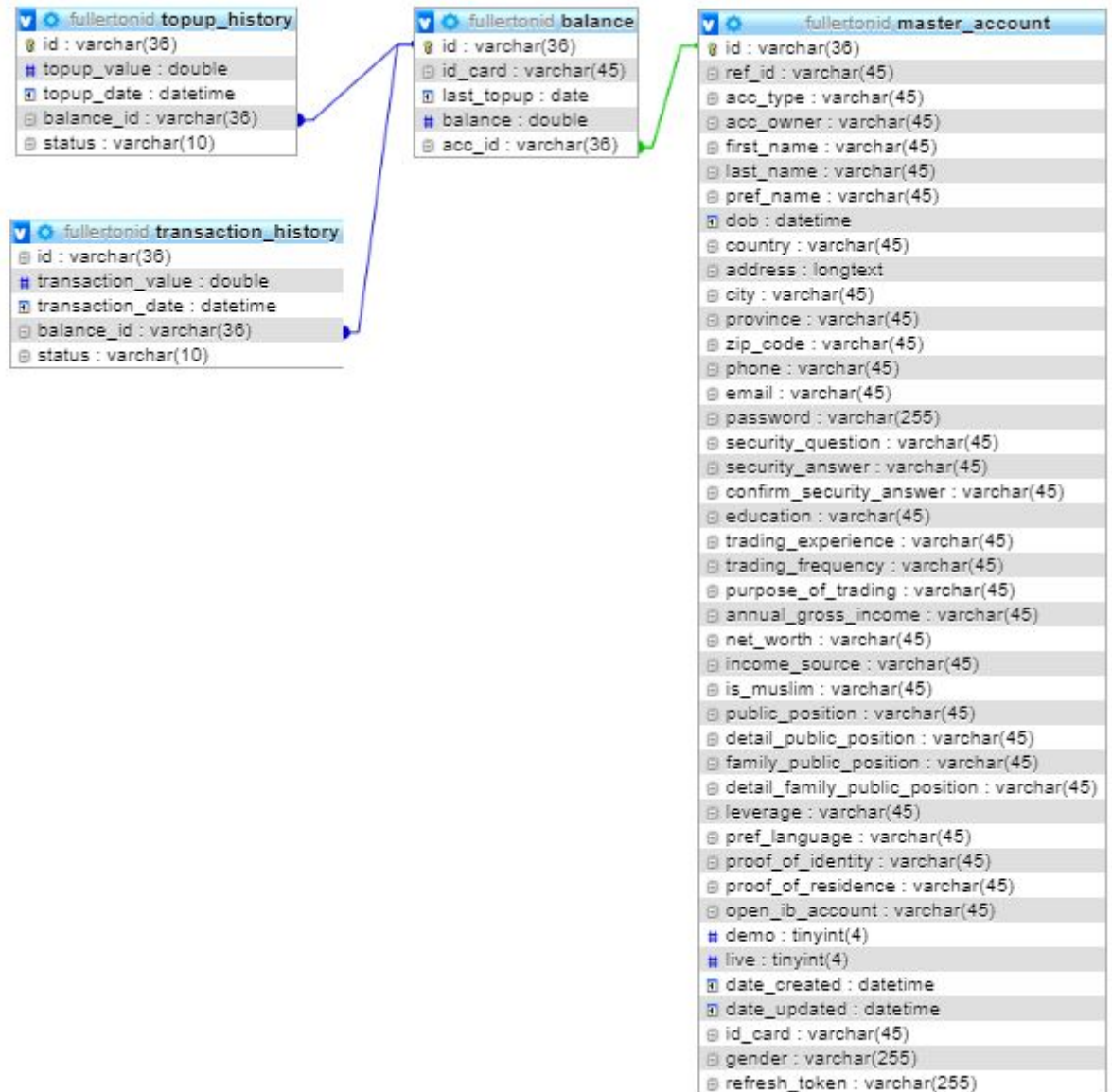
All dummy data for testing purposes and sql are provided in dummy data folder

 .idea	7/31/2018 9:40 AM	File folder
 dummy data	7/31/2018 9:46 AM	File folder
 src	7/23/2018 1:05 PM	File folder
 target	7/23/2018 1:15 PM	File folder

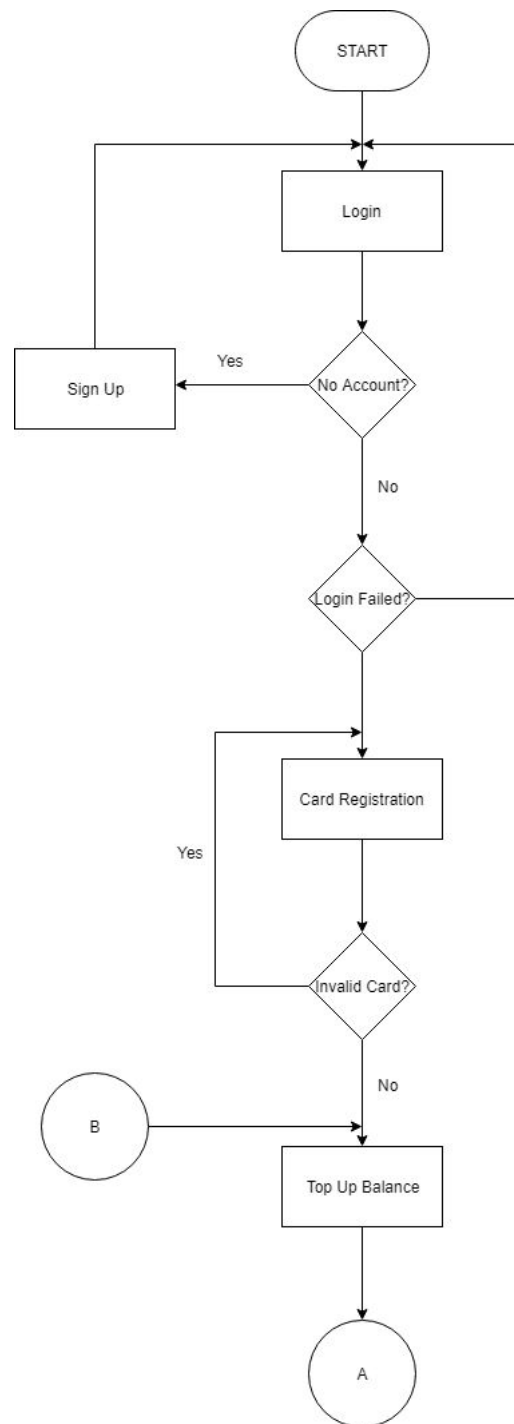
- **Port**

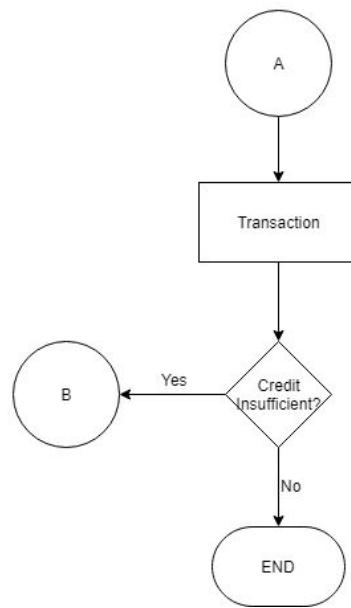
8443

Database Schema



Flow Chart





Road Map

Account

1. Register an Account

path : ["/users/registerlive"](/users/registerlive) (method = POST)

When an account is created, a balance entity is automatically created in database which the balance value is set to 0 and the card number is set to NULL

The screenshot displays a REST client interface. At the top, a POST request is configured for the URL `http://localhost:8443/users/registerlive`. The 'Body' tab is selected, showing a JSON payload with the following fields: `ref_id` (null), `acc_type` ("Fullerton Markets | Variable Spread | USD"), `acc_owner` ("Personal"), `first_name` ("Admin"), `last_name` ("FGB"), `pref_name` ("Martin"), `dob` ("1997-10-03T00:00:00.511Z"), `country` ("Indonesia"), `address` ("Jl. Jalan"), `city` ("Tangerang"), `province` ("Jawa Barat"), `zip_code` ("14405"), `phone` ("085894090909"), `email` ("adminFGB@gmail.com"), and `password` ("Adminadmin"). Below the request, the 'Test Results' tab is active, showing a response with a status of "Success...".

```
POST http://localhost:8443/users/registerlive

{
  "ref_id": null,
  "acc_type": "Fullerton Markets | Variable Spread | USD",
  "acc_owner": "Personal",
  "first_name": "Admin",
  "last_name": "FGB",
  "pref_name": "Martin",
  "dob": "1997-10-03T00:00:00.511Z",
  "country": "Indonesia",
  "address": "Jl. Jalan",
  "city": "Tangerang",
  "province": "Jawa Barat",
  "zip_code": "14405",
  "phone": "085894090909",
  "email": "adminFGB@gmail.com",
  "password": "Adminadmin"
}
```

```
{
  "status": "Success..."
}
```

2. Login

path : `"/users/loginlive"` (method = POST)

The screenshot shows a REST client interface with the following details:

- URL:** `http://localhost:8443/users/loginlive`
- Method:** POST
- Body:**

```
{
  "email": "martin.lin@gmail.com",
  "password": "Adminadmin"
}
```
- Response:**

```
{
  "status": "Success..."
}
```

Login is unsuccessful when the inputted email or password does not exist or wrong for security matters, wrong email or password not specify

The screenshot shows a REST client interface with the following details:

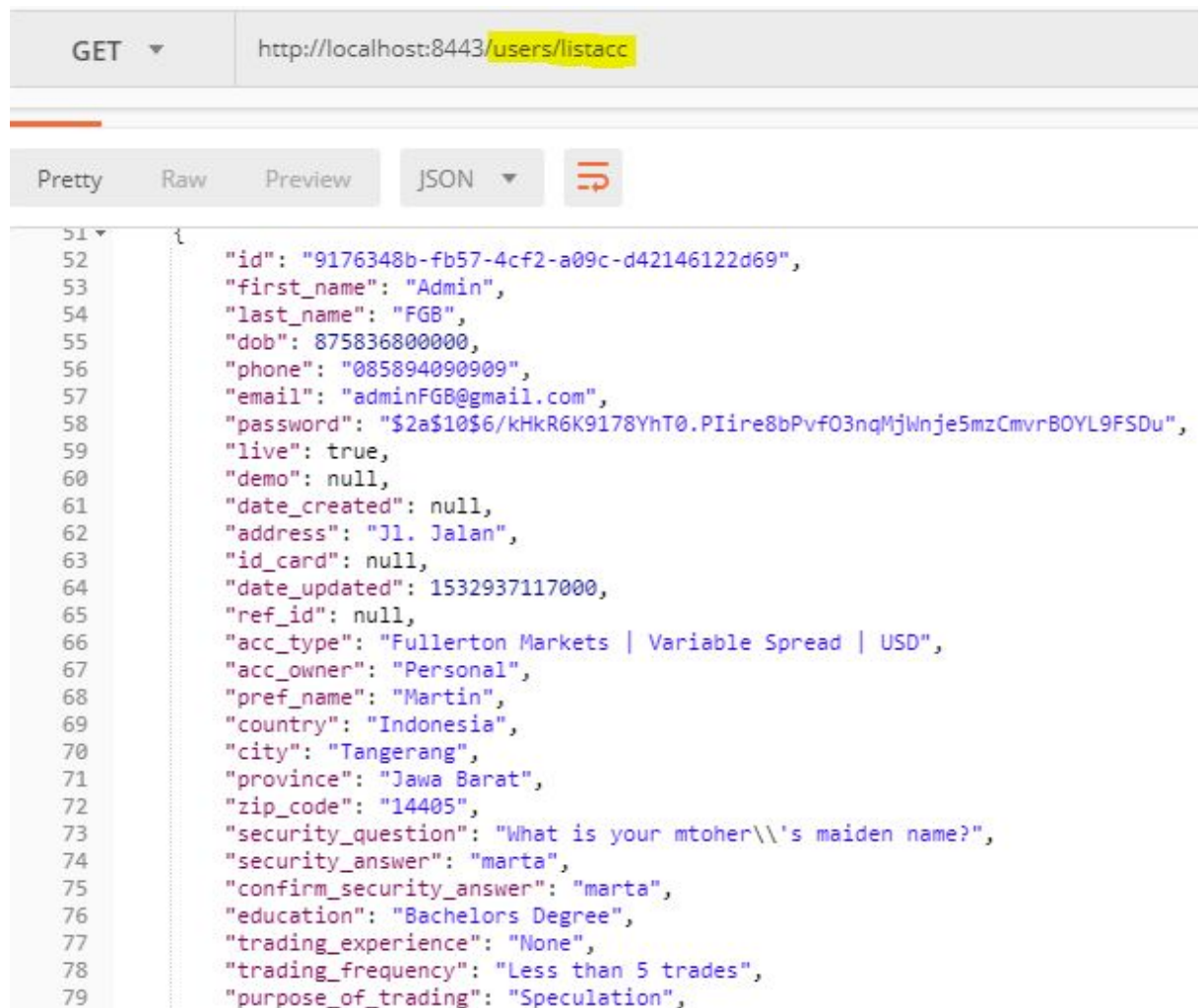
- URL:** `http://localhost:8443/users/loginlive`
- Method:** POST
- Body:**

```
{
  "email": "martin@gmail.com",
  "password": "Adminadmin"
}
```
- Response:**

```
{
  "status": "Wrong Email or Password..."
}
```

3. Show Account List

path : `"/users/listacc"` (method = GET)

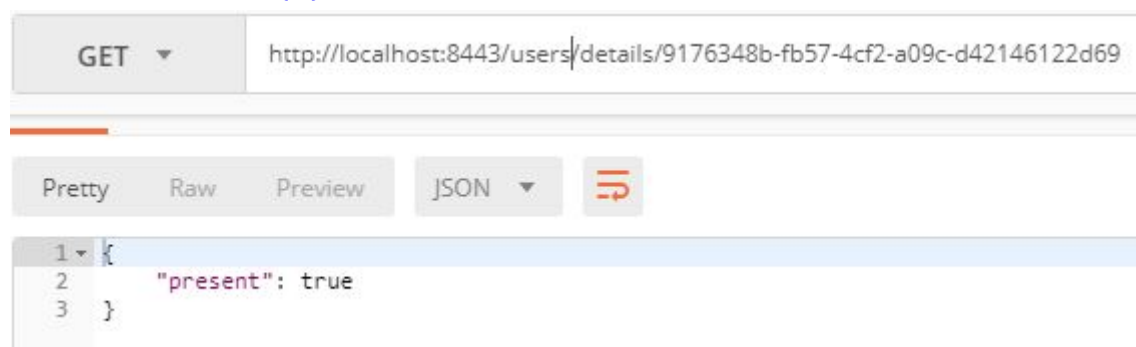


The screenshot shows a REST client interface with a GET request to `http://localhost:8443/users/listacc`. The response is displayed in JSON format, showing a single user account with various details.

```
51 {
52   "id": "9176348b-fb57-4cf2-a09c-d42146122d69",
53   "first_name": "Admin",
54   "last_name": "FGB",
55   "dob": 875836800000,
56   "phone": "085894090909",
57   "email": "adminFGB@gmail.com",
58   "password": "$2a$10$6/kHkR6K9178YhT0.PIire8bPvf03nqMjWnje5mzCmvrBOYL9FSDu",
59   "live": true,
60   "demo": null,
61   "date_created": null,
62   "address": "Jl. Jalan",
63   "id_card": null,
64   "date_updated": 1532937117000,
65   "ref_id": null,
66   "acc_type": "Fullerton Markets | Variable Spread | USD",
67   "acc_owner": "Personal",
68   "pref_name": "Martin",
69   "country": "Indonesia",
70   "city": "Tangerang",
71   "province": "Jawa Barat",
72   "zip_code": "14405",
73   "security_question": "What is your mtoher\\'s maiden name?",
74   "security_answer": "marta",
75   "confirm_security_answer": "marta",
76   "education": "Bachelors Degree",
77   "trading_experience": "None",
78   "trading_frequency": "Less than 5 trades",
79   "purpose_of_trading": "Speculation",
```

4. Show Details Account by id


path : `"/users/details/{id}"` (method = GET)



The screenshot shows a REST client interface with a GET request to `http://localhost:8443/users/details/9176348b-fb57-4cf2-a09c-d42146122d69`. The response is displayed in JSON format, showing a single user account with various details.


```
1 {
2   "present": true
3 }
```

5. Update Account by id
path : `"/users/update/{id}"` (method = POST)

POST  http://localhost:8443/users/update/9176348b-fb57-4cf2-a09c-d42146122d69

```
1 {
2   "ref_id": null,
3   "acc_type": "Fullerton Markets | Variable Spread | USD",
4   "acc_owner": "Personal",
5   "first_name": "Admin",
6   "last_name": "FGB",
7   "pref_name": "ADMIN FGB",
8   "dob": "1997-10-03T00:00:00.511Z",
9   "country": "Indonesia",
10  "address": "Jl. Jalan",
11  "city": "Tangerang",
12  "province": "Jawa Barat",
13  "zip_code": "14405",
14  "phone": "085894090909",
15  "email": "adminFGB@gmail.com",
16  "password": "Adminadmin",
17  "security_question": "What is your mtoher\\'s maiden name?",
18  "security_answer": "marta",
19  "confirm_security_answer": "marta",
20  "education": "Bachelors Degree",
21  "trading_experience": "None",
22  "trading_experience": "None",
23  "trading_experience": "None"
24 }
```

Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON 

```
1 {
2   "status": "Success..."
3 }
```


Balance

all balance value update is depends on TopUpHistory(for adding balance) and TransactionHistory(for reducing balance)

1. All Balance

path : `"/balance/all"` (method = GET)

The screenshot shows a REST client interface with a GET request to `http://localhost:8443/balance/all`. The response is displayed in JSON format, showing an array of three user balance objects. Each object contains an `id`, `id_card`, `balance`, and `last_topup` field.

```
1 [
2   {
3     "id": "1ef67dd5-9e84-4763-9c3d-88e041c031b4",
4     "id_card": null,
5     "balance": 0,
6     "last_topup": 1532970000000
7   },
8   {
9     "id": "b6066a7c-4105-44d2-891c-70f0a94def40",
10    "id_card": null,
11    "balance": 0,
12    "last_topup": 1532883600000
13  },
14  {
15    "id": "d5faec5b-0dc6-4178-9797-3b2aa13559ea",
16    "id_card": "4321432143214321",
17    "balance": 65000,
18    "last_topup": 1532538000000
19  }
20 ]
```

2. Balance Detail by Id

path : `"/balance/details/{id}"` (method = GET)

The screenshot shows a REST client interface with a GET request to `http://localhost:8443/balance/details/d5faec5b-0dc6-4178-9797-3b2aa13559ea`. The response is displayed in JSON format, showing a single object with a `present` field set to `true`.

```
1 {
2   "present": true
3 }
```

3. Balance Update Card

for updating balance card serial

path : `"/balance/update_card/{id}"` (method = POST)

The screenshot displays a REST client interface with the following details:

- Method:** POST
- URL:** `http://localhost:8443/balance/update_card/d5faec5b-0dc6-4178-9797-3b2aa13559ea`
- Body Tab:** Selected, showing a JSON object:

```
{  "id_card": "1234123412341234"}
```
- Response Tab:** Selected, showing a JSON object:

```
{  "status": "Success..."}
```

Top Up

1. View all top up history

path= ["/history/all"](/history/all) (method = GET)

GET localhost:8443/history/all

Authorization Headers Body Pre-request Script Tests

TYPE

Inherit auth from parent

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

This request is not inheriting any authorization helper

Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON

```
1 {
2   {
3     "id": "055b4dc5-8a5b-440d-8aea-3069793dc510",
4     "topup_value": 10000,
5     "status": "",
6     "topup_date": 1532936879000,
7     "balance_id": "e7e91c7b-797d-48e3-915d-5aca8457b4f6"
8   },
9   {
10    "id": "28479da6-ff01-43c7-8cb3-773e7f9f4ad3",
11    "topup_value": 10000,
12    "status": "Delete",
13    "topup_date": 1532573136000,
14    "balance_id": "057ff083-6658-4b61-a5b8-98c617530cb5"
15  },
16  {
17    "id": "4b3e1136-082a-4a7e-a83b-dacfa4b82c6e",
18    "topup_value": 10000,
19    "status": "",
20    "topup_date": 1532923587000,
21    "balance_id": "057ff083-6658-4b61-a5b8-98c617530cb5"
22  }
23 }
```

2. Top Up Credits

path: ["/history/save"](/history/save) (method = PUT)

Before Top Up:

e7e91c7b-797d-48e3-915d-5aca8457b4f6	1234123412341234	2018-07-30	20000	92aef7f0-00df-4d80-ac05-94b938286c4f
--------------------------------------	------------------	------------	-------	--------------------------------------

After Top Up:

e7e91c7b-797d-48e3-915d-5aca8457b4f6	1234123412341234	2018-07-30	30000	92aef7f0-00df-4d80-ac05-94b938286c4f
--------------------------------------	------------------	------------	-------	--------------------------------------

PUT localhost:8443/history/save

Authorization Headers (2) Body Pre-request Script Tests

form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 {
2   "id": "1",
3   "topup_value": "10000",
4   "topup_date": "{{current_timestamp}}",
5   "balance_id": "e7e91c7b-797d-48e3-915d-5aca8457b4f6",
6   "status": ""
7 }
8
9
```

Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON

```
1 {
2   "status": "Success..."
3 }
```

History:

c4732d5b-e502-45ae-89e3-5a0532e993c9	10000	2018-07-31 09:33:11	e7e91c7b-797d-48e3-915d-5aca8457b4f6
--------------------------------------	-------	---------------------	--------------------------------------

3. View Top Up History Details by ID

path= `/details/{id}` (method = GET)

GET localhost:8443/history/details/c4732d5b-e502-45ae-89e3-5a0532e993c9

Authorization Headers (2) Body Pre-request Script Tests

TYPE

Inherit auth from parent

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

This request is not inheriting any authorization

Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON

```

1 {
2   "present": true
3 }

```

4. Delete a history

path = `/history/delete/{id}` (method = POST)

History status is set to "Inactive" after delete is done

POST localhost:8443/history/delete/c4732d5b-e502-45ae-89e3-5a0532e993c9

Authorization Headers Body Pre-request Script Tests

☒ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary

KEY	VALUE
Key	Value

Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON

```

1 {
2   "status": "Delete success..."
3 }

```

Before delete:

c4732d5b-e502-45ae-89e3-5a0532e993c9	10000	2018-07-31 09:33:11	e7e91c7b-797d-48e3-915d-5aca8457b4f6
--------------------------------------	-------	---------------------	--------------------------------------

After delete:

c4732d5b-e502-45ae-89e3-5a0532e993c9	10000	2018-07-31 09:33:11	e7e91c7b-797d-48e3-915d-5aca8457b4f6	Inactive
--------------------------------------	-------	---------------------	--------------------------------------	----------

Transaction

1. View all transaction history

path = `"/transaction/history/all"` (method = GET)

GET localhost:8443/transaction/history/all

Authorization Headers Body Pre-request Script Tests

TYPE

Inherit auth from parent

This request is not inheriting any authorization

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

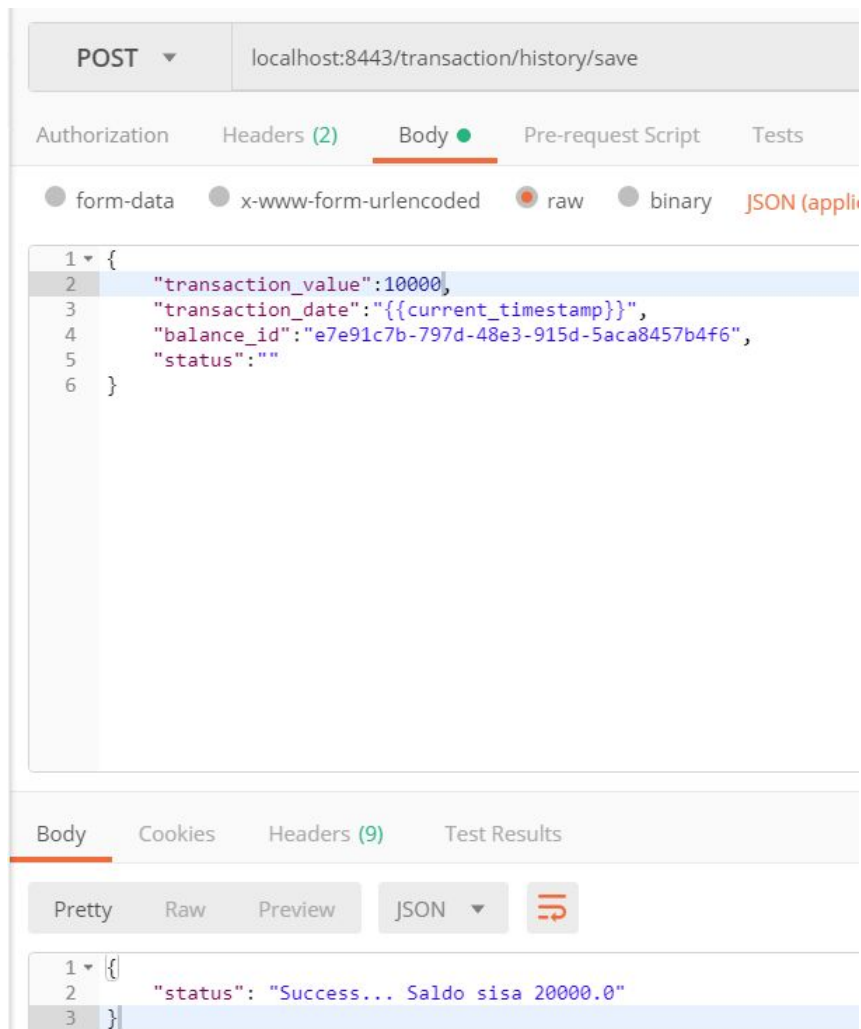
Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON

```
1 [
2   {
3     "id": "2ccd5a92-3aa1-4249-922f-a68d765ec1d5",
4     "transaction_value": 10000,
5     "status": "",
6     "transaction_date": 1532587558000,
7     "balance_id": "057ff083-6658-4b61-a5b8-98c617530cb5"
8   },
9   {
10    "id": "eed960d4-2ac7-4884-a1f2-a6364bd19d70",
11    "transaction_value": 10000,
12    "status": "",
13    "transaction_date": 1532587800000,
14    "balance_id": "057ff083-6658-4b61-a5b8-98c617530cb5"
15  },
16  {
17    "id": "b0cbadd1-ab3c-44ce-8772-d86959258387",
18    "transaction_value": 10000,
19    "status": "",
20    "transaction_date": 1532587869000,
21    "balance_id": "057ff083-6658-4b61-a5b8-98c617530cb5"
22  }
23 ]
```

2. Doing a transaction

path = `"/transaction/history/save"` (method = POST)



Balance before transaction:

e7e91c7b-797d-48e3-915d-5aca8457b4f6	1234123412341234	2018-07-30	30000	92aef7f0-00df-4d80-ac05-94b938286c4f
--------------------------------------	------------------	------------	-------	--------------------------------------

Balance after transaction:

e7e91c7b-797d-48e3-915d-5aca8457b4f6	1234123412341234	2018-07-30	20000	92aef7f0-00df-4d80-ac05-94b938286c4f
--------------------------------------	------------------	------------	-------	--------------------------------------

Transaction history:

4665d08c-12cf-4107-b242-2f3f7860c906	10000	2018-07-31 09:52:25	e7e91c7b-797d-48e3-915d-5aca8457b4f6
--------------------------------------	-------	---------------------	--------------------------------------

Transactions can't be made if:

- Balance insufficient (transaction value is higher than the balance)

POST localhost:8443/transaction/history/save

Authorization Headers (2) Body Pre-request Script Tests

form-data x-www-form-urlencoded raw binary JSON (applic)

```
1 {
2   "transaction_value":100000,
3   "transaction_date":"{{current_timestamp}}",
4   "balance_id":"e7e91c7b-797d-48e3-915d-5aca8457b4f6",
5   "status":""
6 }
```

Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON

```
1 {
2   "status": "Credit insufficient..."
3 }
```

3. View transaction history details by ID

path = `/transaction/history/details/{id}` (method = GET)

GET localhost:8443/transaction/history/details/4665d08c-12cf-4107-b242-2f3f7860c906

Authorization Headers (2) Body Pre-request Script Tests

TYPE

Inherit auth from parent

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

This request is not inheriting any a

Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON

```
1 {
2   "present": true
3 }
```


4. Delete a transaction history

path = `/transaction/history/delete/{id}` (method = POST)

Transaction history status is set to "Inactive" after delete is done

POST localhost:8443/transaction/history/delete/4665d08c-12cf-4107-b242-2f3f7860c906

Authorization Headers (2) Body Pre-request Script Tests

TYPE

Inherit auth from parent

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

This request is not inheriting any au

Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON

```
1 {  
2   "status": "Delete success..."  
3 }
```

Before delete:

4665d08c-12cf-4107-b242-2f3f7860c906

10000 2018-07-31 09:52:25 e7e91c7b-797d-48e3-915d-5aca8457b4f6

After delete:

4665d08c-12cf-4107-b242-2f3f7860c906

10000 2018-07-31 09:52:25 e7e91c7b-797d-48e3-915d-5aca8457b4f6 Inactive