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

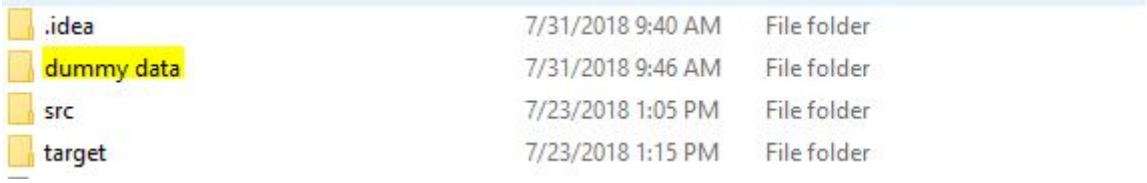
You must have JDK , JAVA IDE and phpMyAdmin for accessing this project

Running Application

- **Project GitHub**
  https://github.com/andresetiawanAS/fgbapi.git

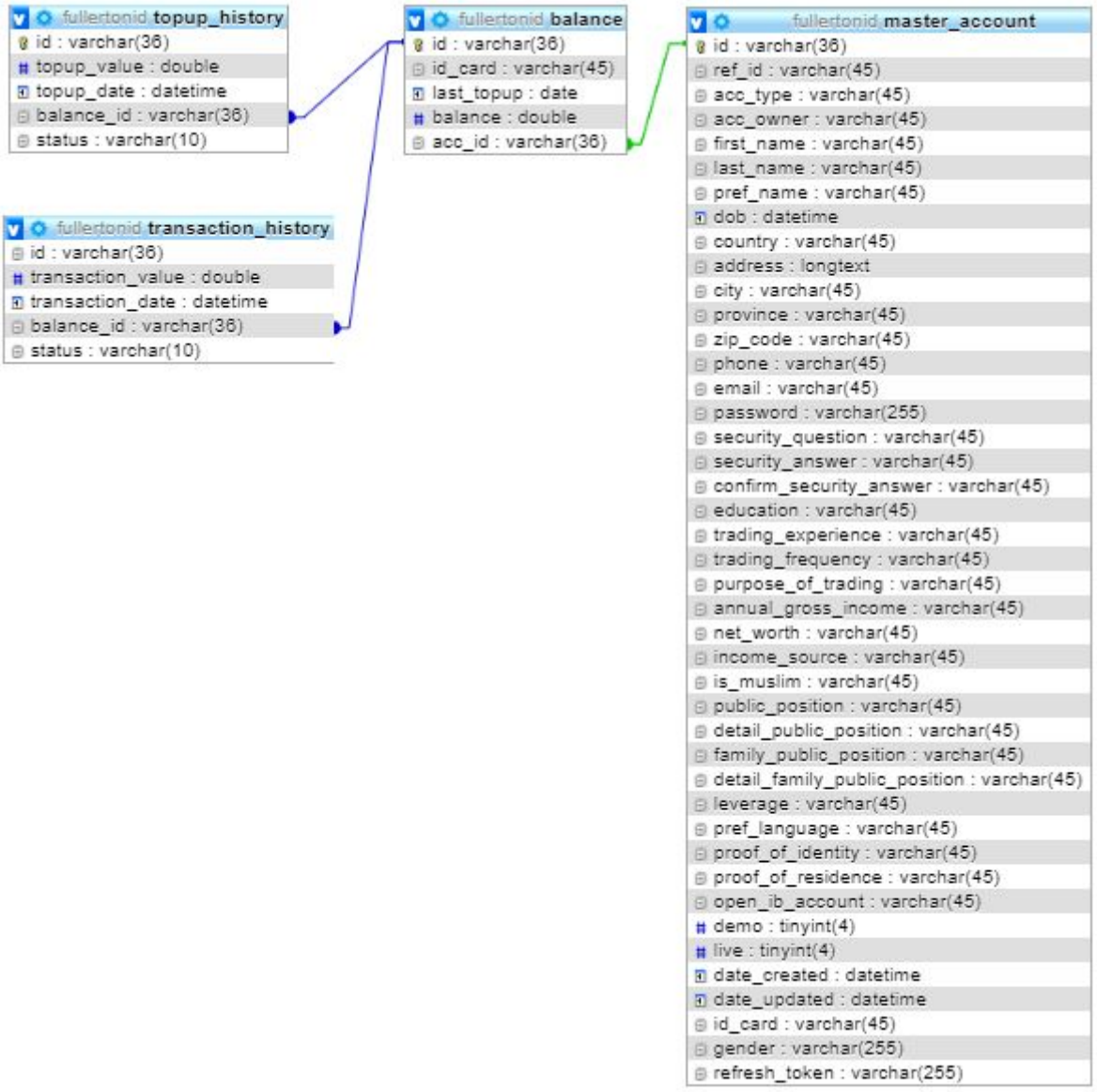
- **Database**
  MySQL Database

- **Dummy Data**
  All dummy data for testing purposes and sql are provided in dummy data folder

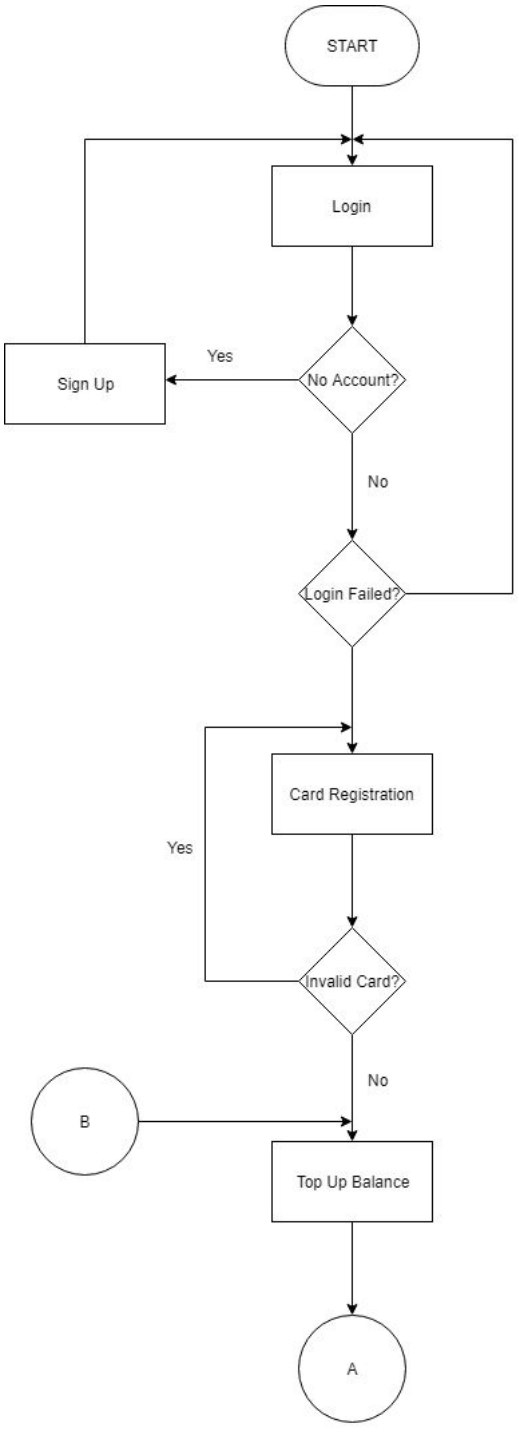


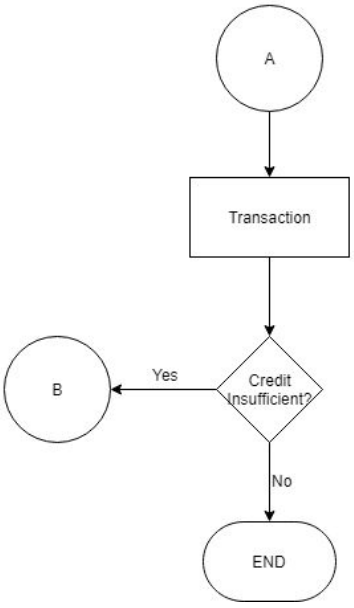
- **Port**
  8443

Database Schema



Flow Chart

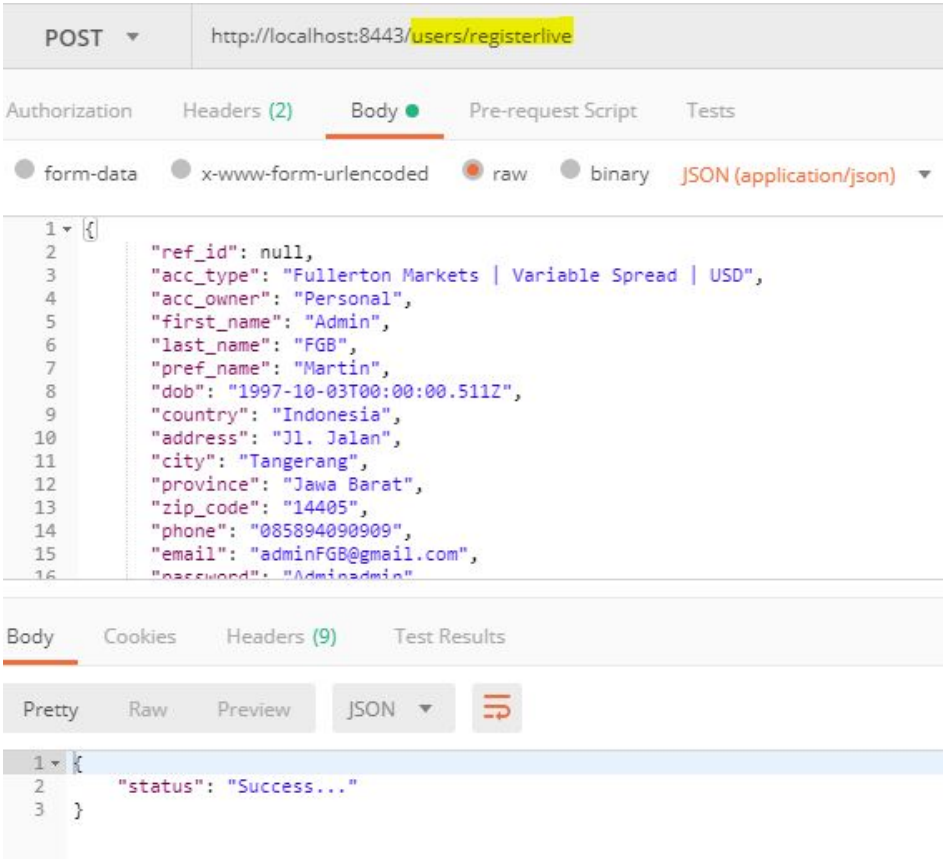

START
Login
Yes
Sign Up
No Account?
No
Login Failed?
Card Registration
Yes
Invalid Card?
No
B
Top Up Balance
A


A
Transaction
B
Yes
Credit Insufficient?
No
END

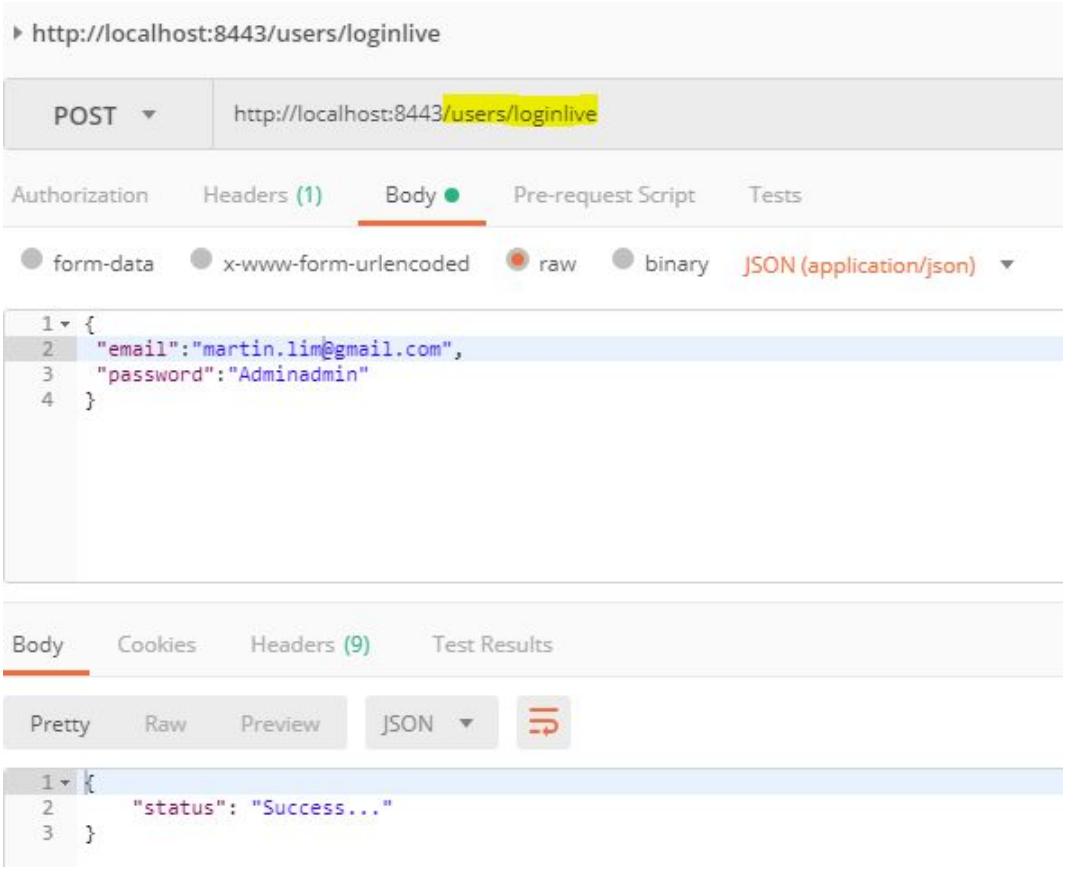
Road Map

Account

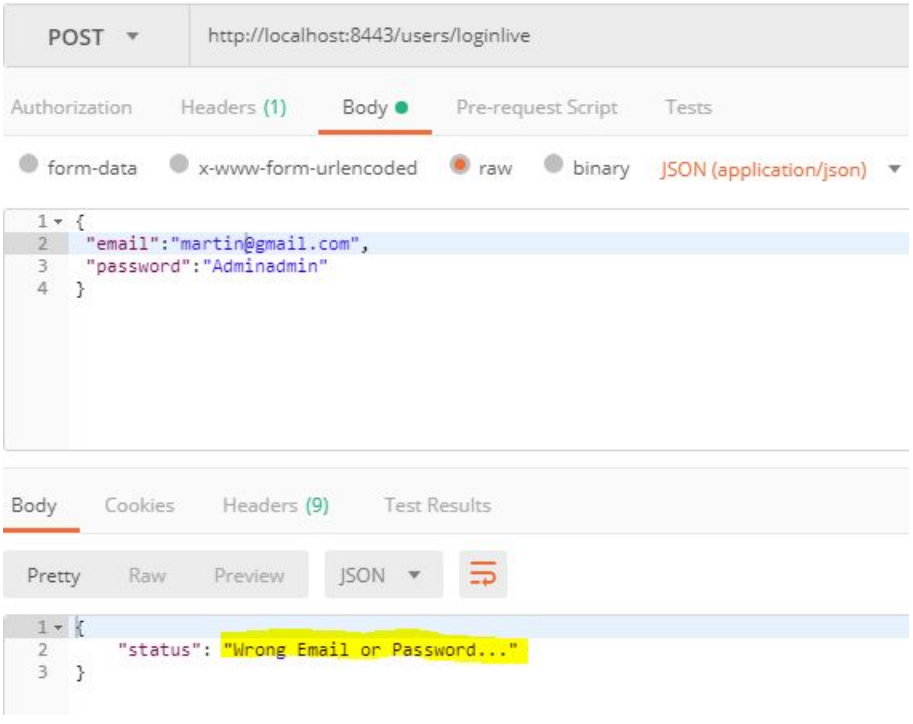
1. Register an Account
   path : “/users/registerlive” (method = POST)
   When an account is created, a balance entity is automatically created in database which the balance value is set to 0 and the card number is set to NULL



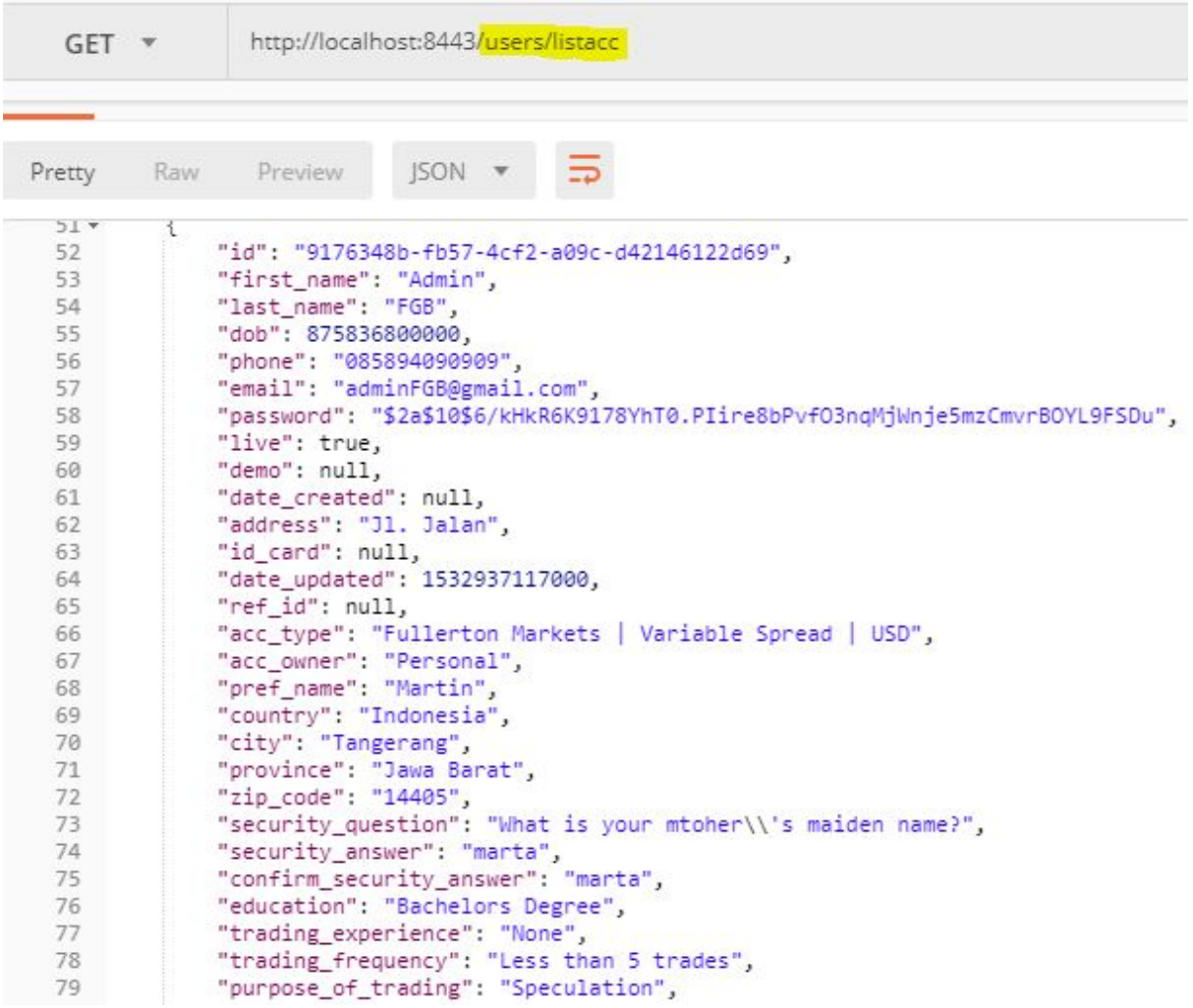
2. Login
path : “/users/loginlive” (method = POST)



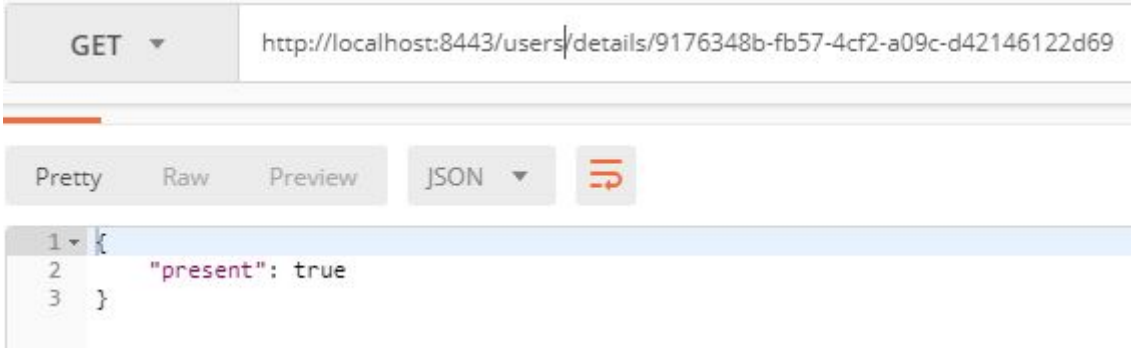
Login is unsuccessful when the inputted email or password does not exist or wrong for security matters, wrong email or password not specify



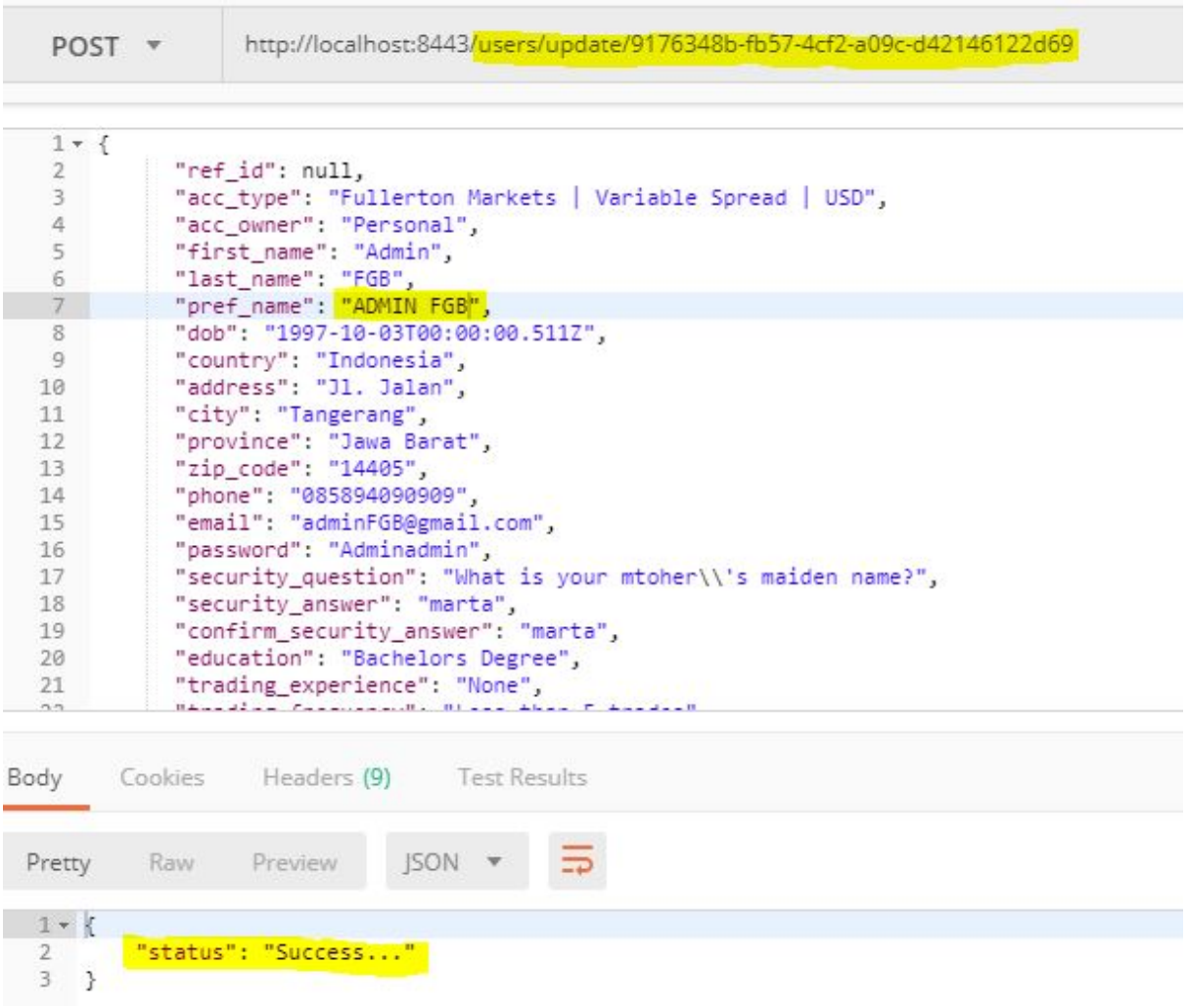
3. Show Account List
   path : “/users/listacc” (method = GET)



4. Show Details Account by id
   path : “/users/details/{id}” (method = GET)



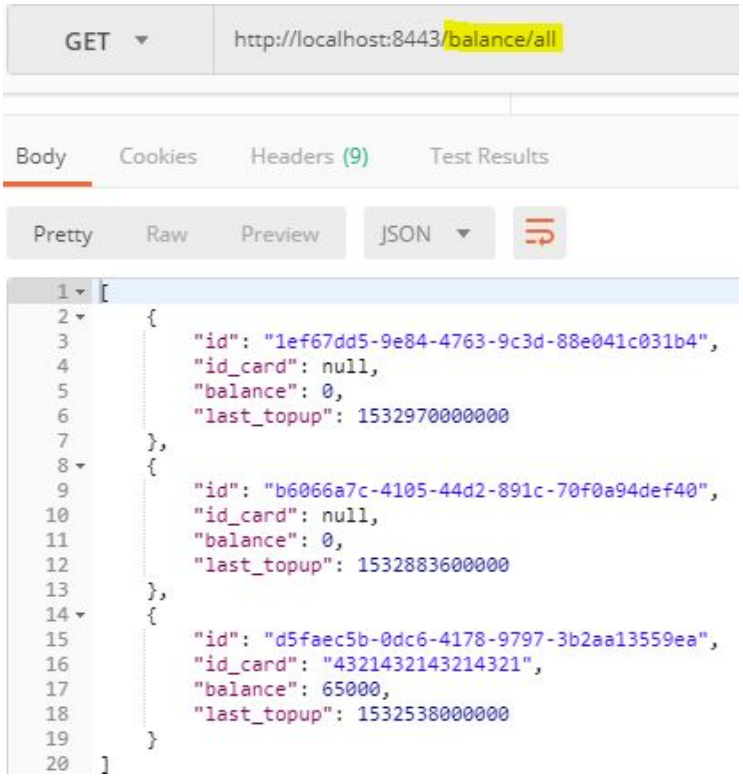
5. Update Account by id
   path : “/users/update/{id}” (method = POST)



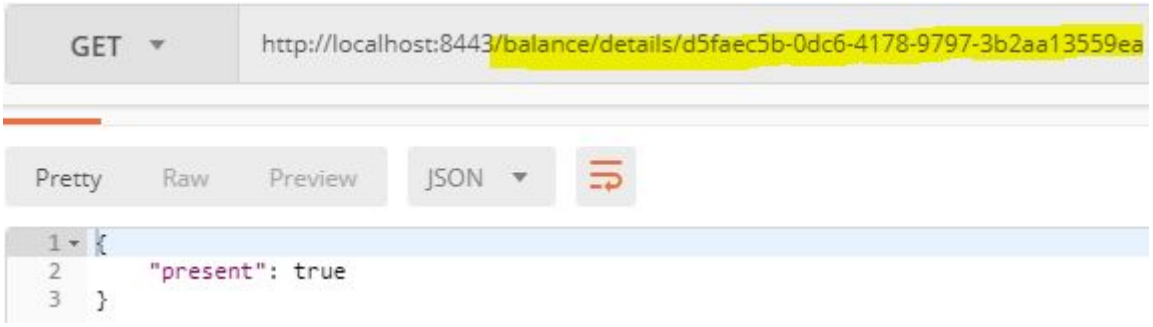
Balance

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

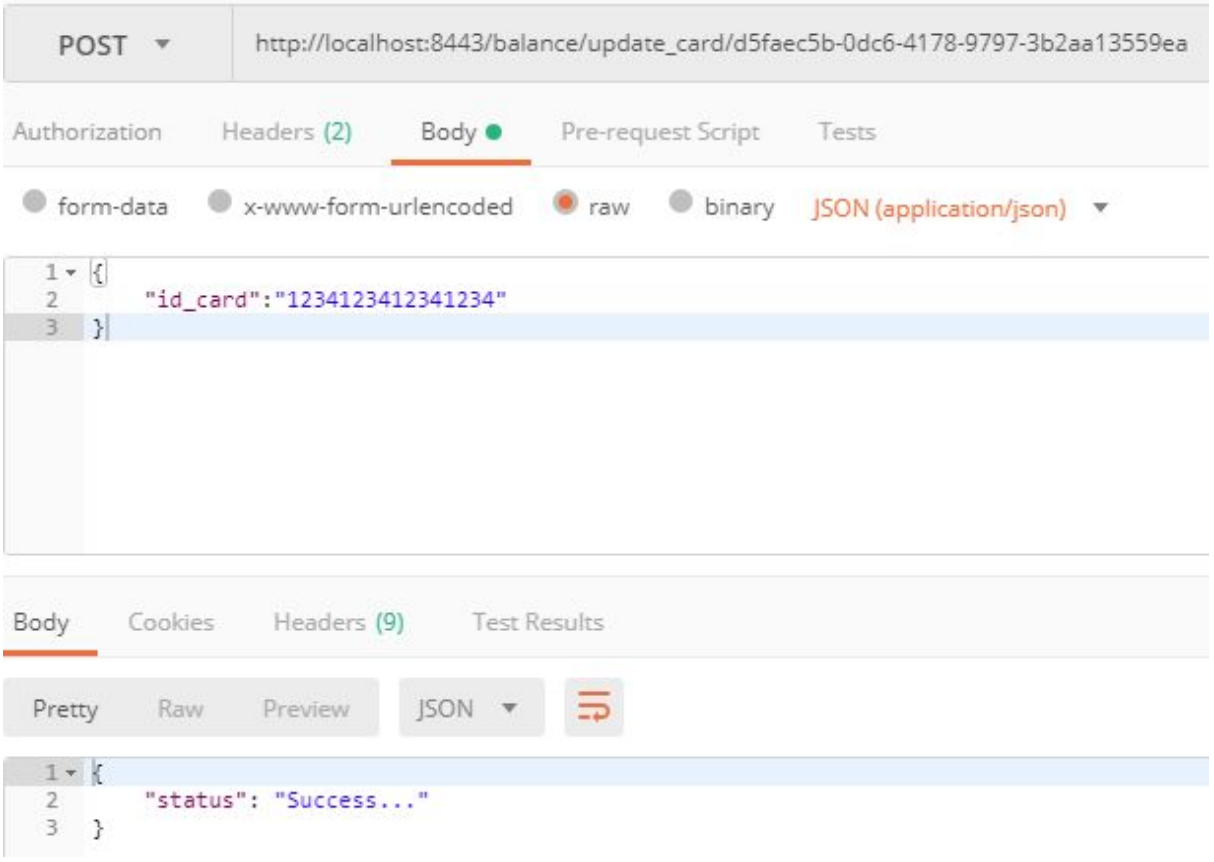
1. All Balance
   path : "/balance/all" (method = GET)



2. Balance Detail by Id
   path : "/balance/details/{id}" (method = GET)

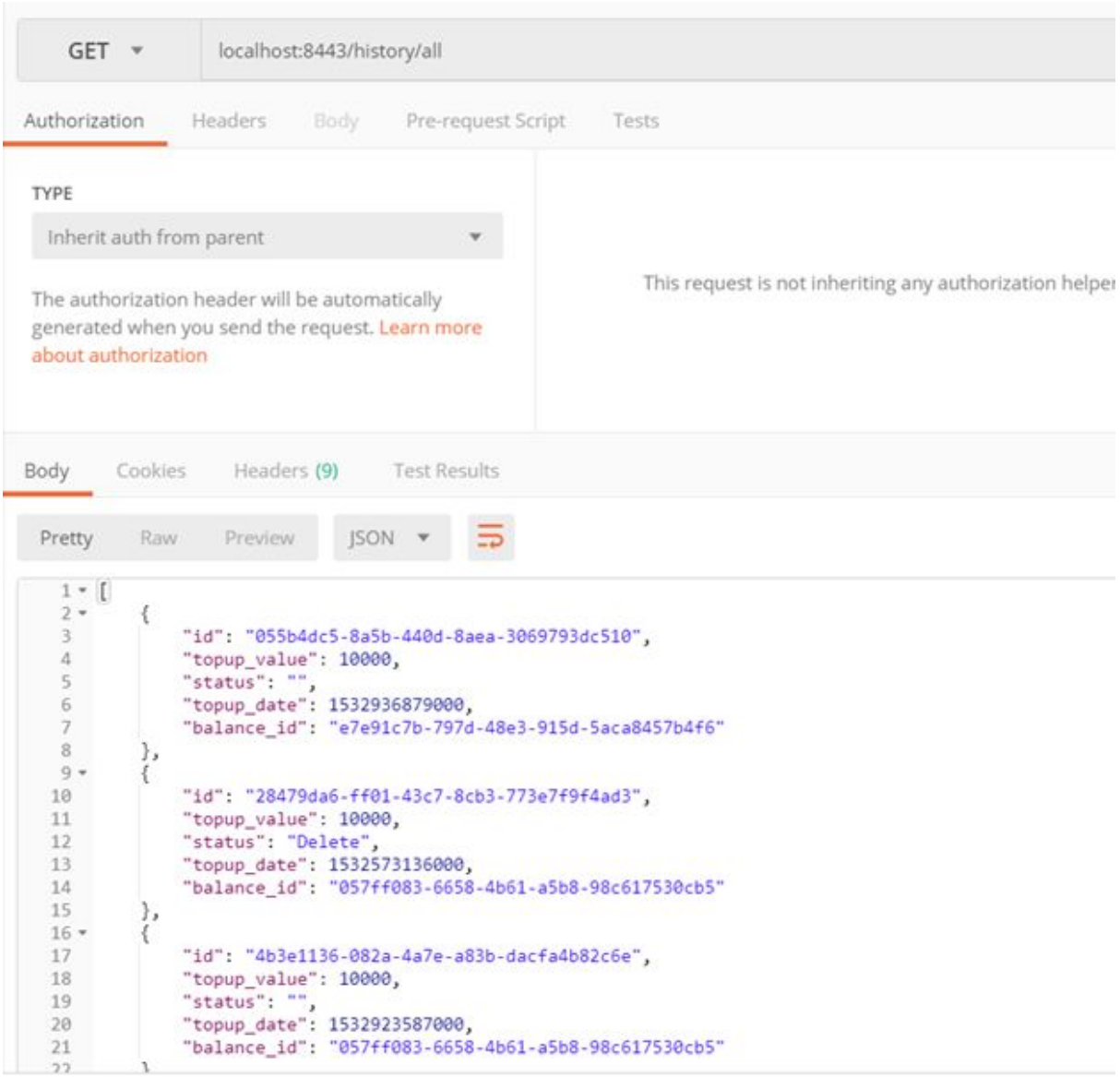


3. Balance Update Card
   for updating balance card serial
   path : “/balance/update_card/{id}” (method = POST)



Top Up

1. View all top up history
   path= "/history/all" (method = GET)



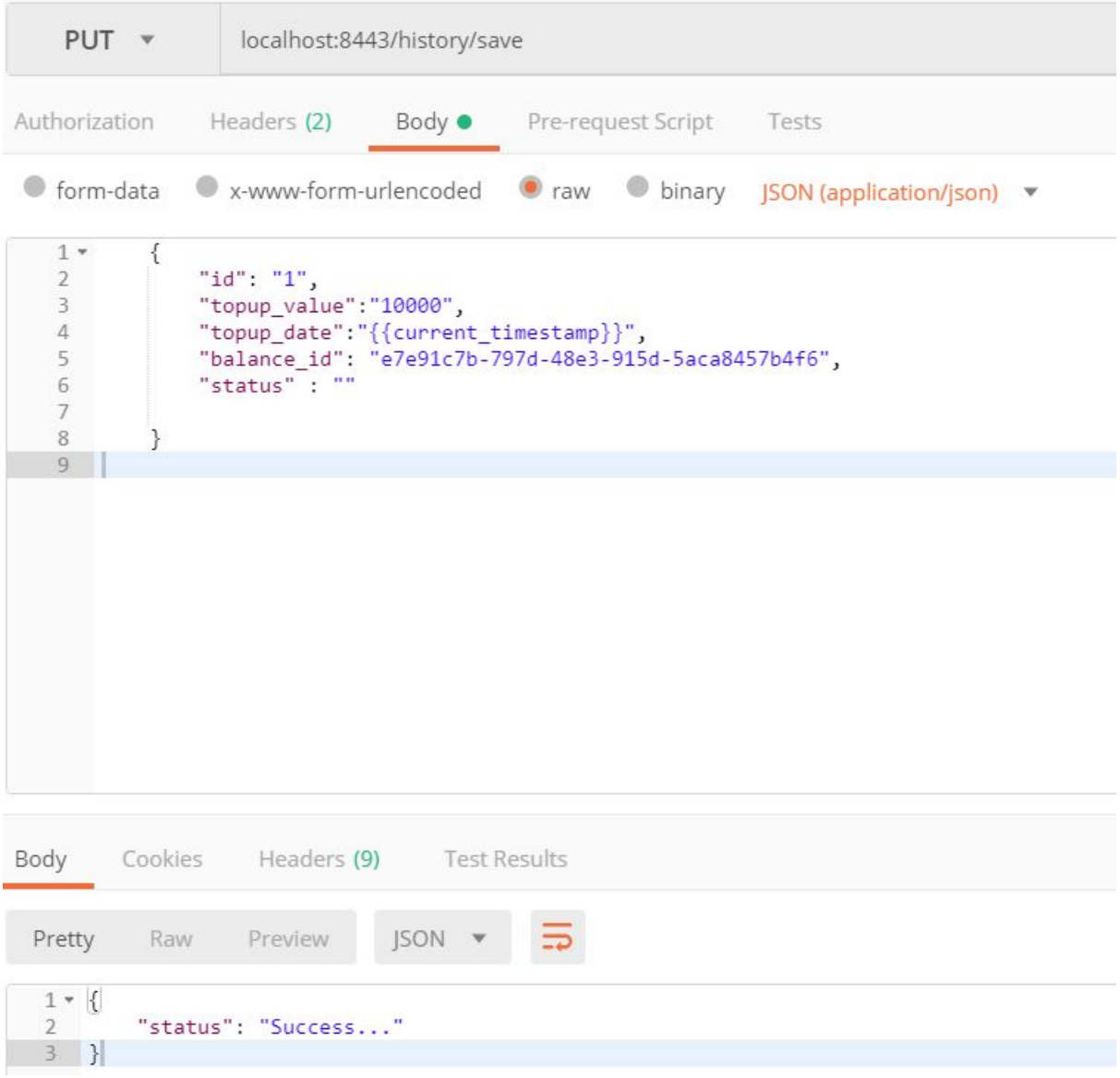
2. Top Up Credits
path: "/history/save" (method = PUT)

Before Top Up:

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

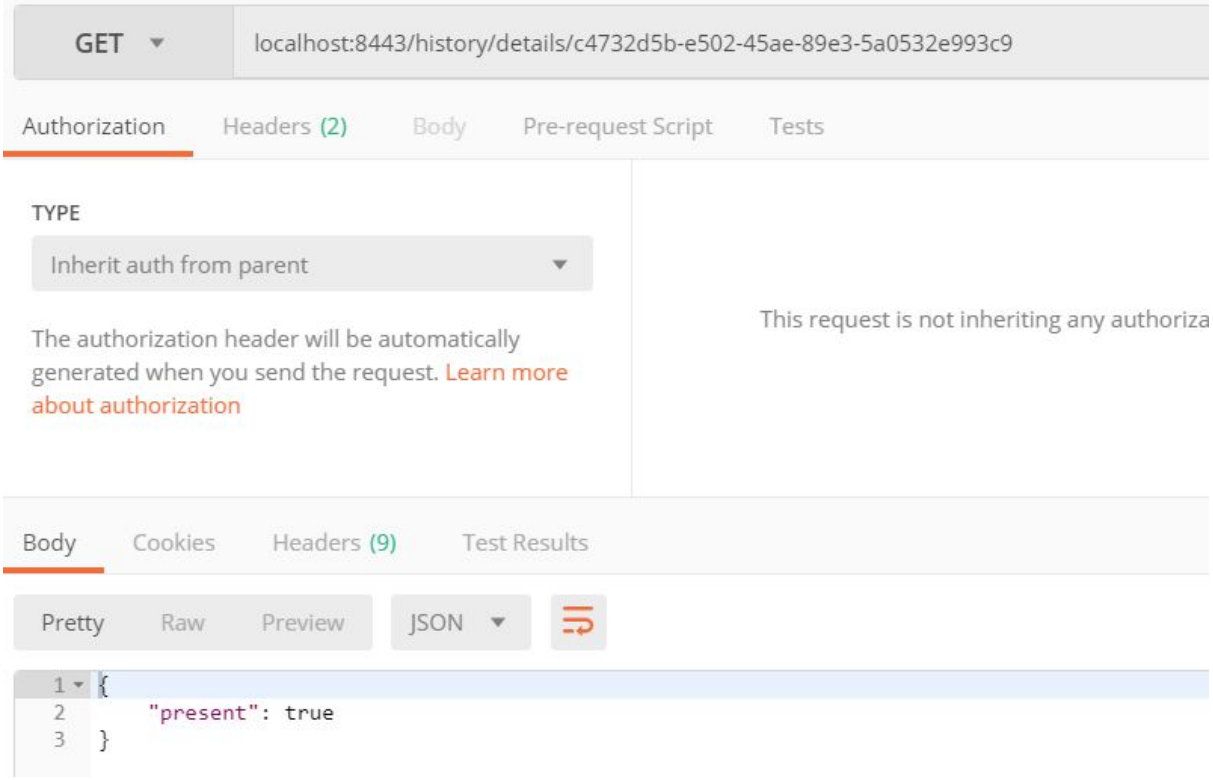
After Top Up:

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

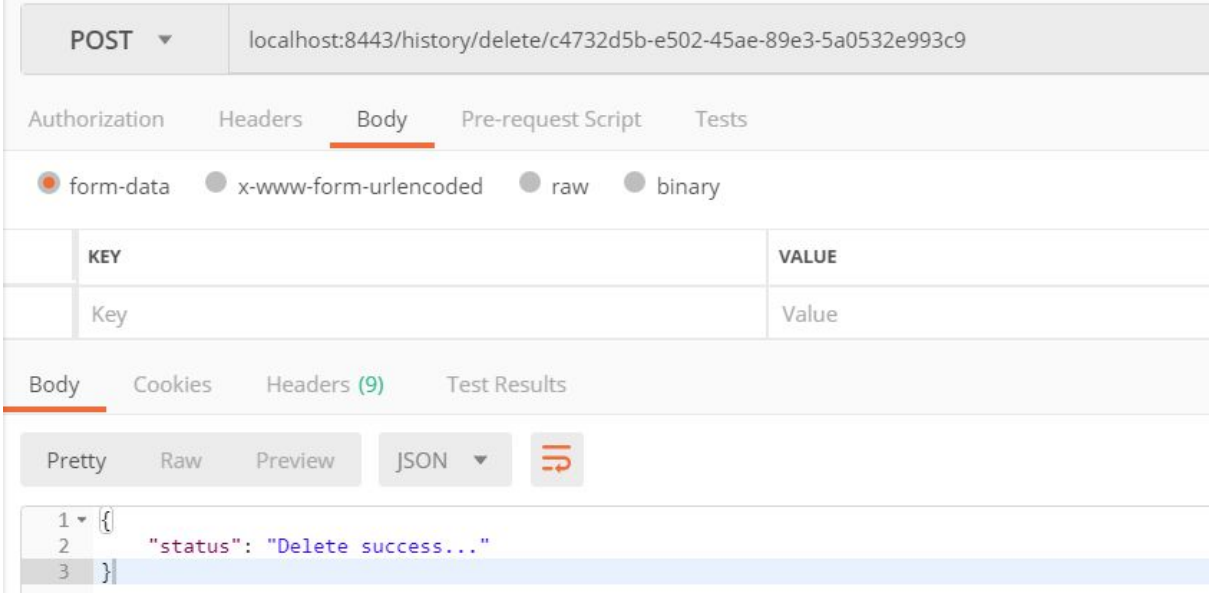


History:

3. View Top Up History Details by ID
path= "/details/{id}" (method = GET)



4. Delete a history
path = "/history/delete/{id}" (method = POST)
History status is set to "Inactive" after delete is done



Before delete:

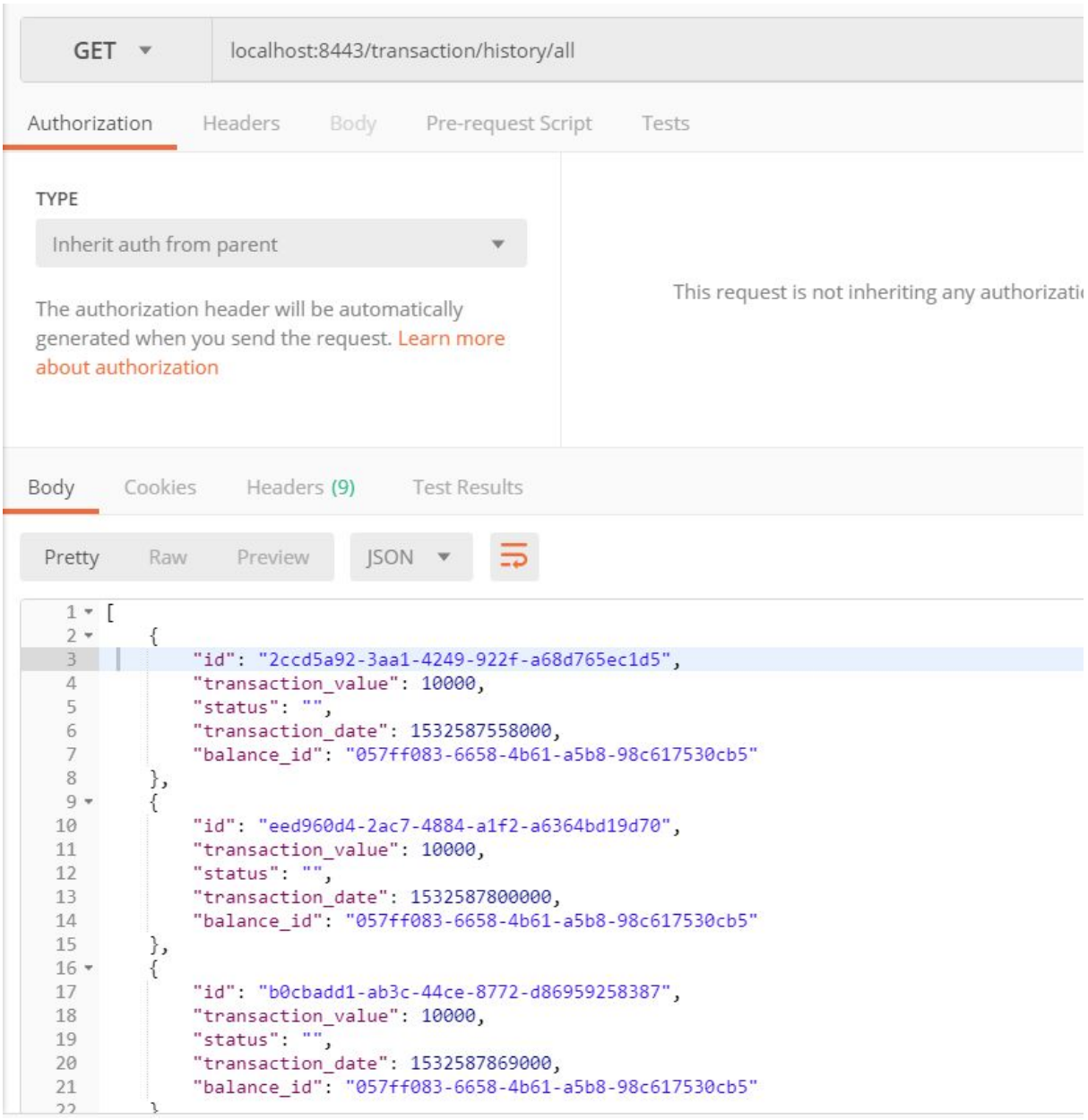
c4732d5b-e502-45ae-89e3-5a0532e993c9	10000	2018-07-31 09:33:11	e7e91c7b-797d-48e3-915d-5aca8457b4f6

After delete:

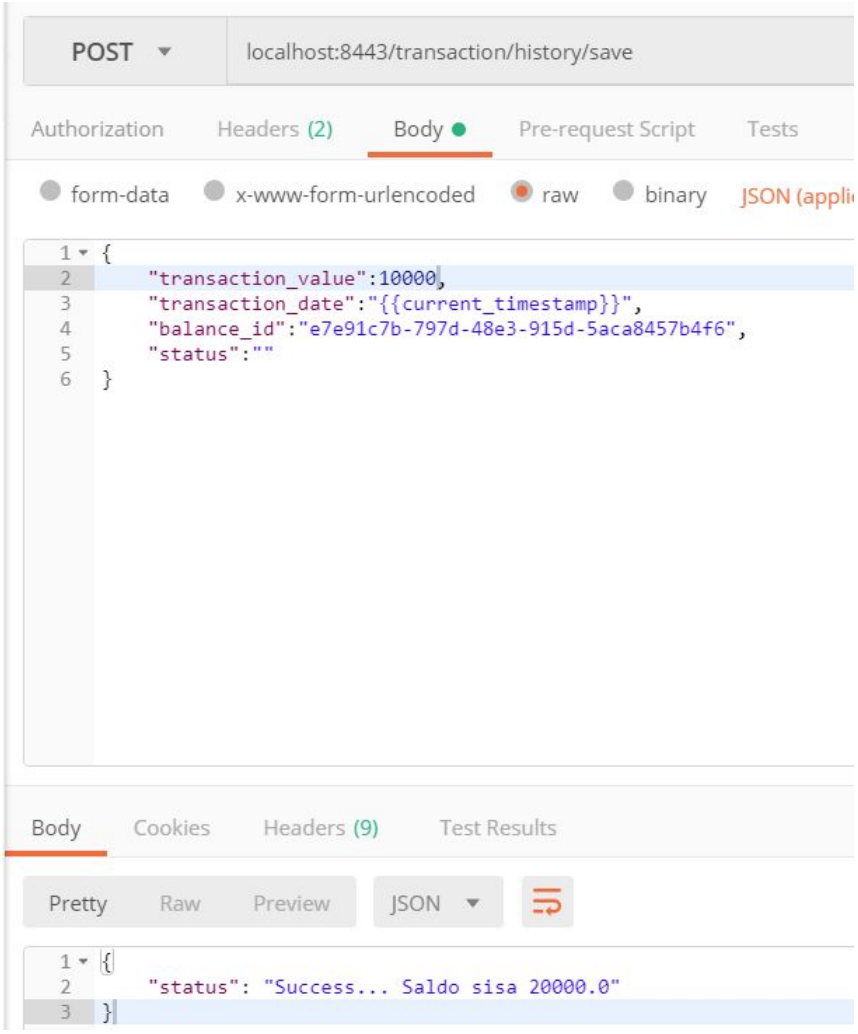
c4732d5b-e502-45ae-89e3-5a0532e993c9	10000	2018-07-31 09:33:11	e7e91c7b-797d-48e3-915d-5aca8457b4f6	Inactive

Transaction

1. View all transaction history
   path = "/transaction/history/all" (method = GET)



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:

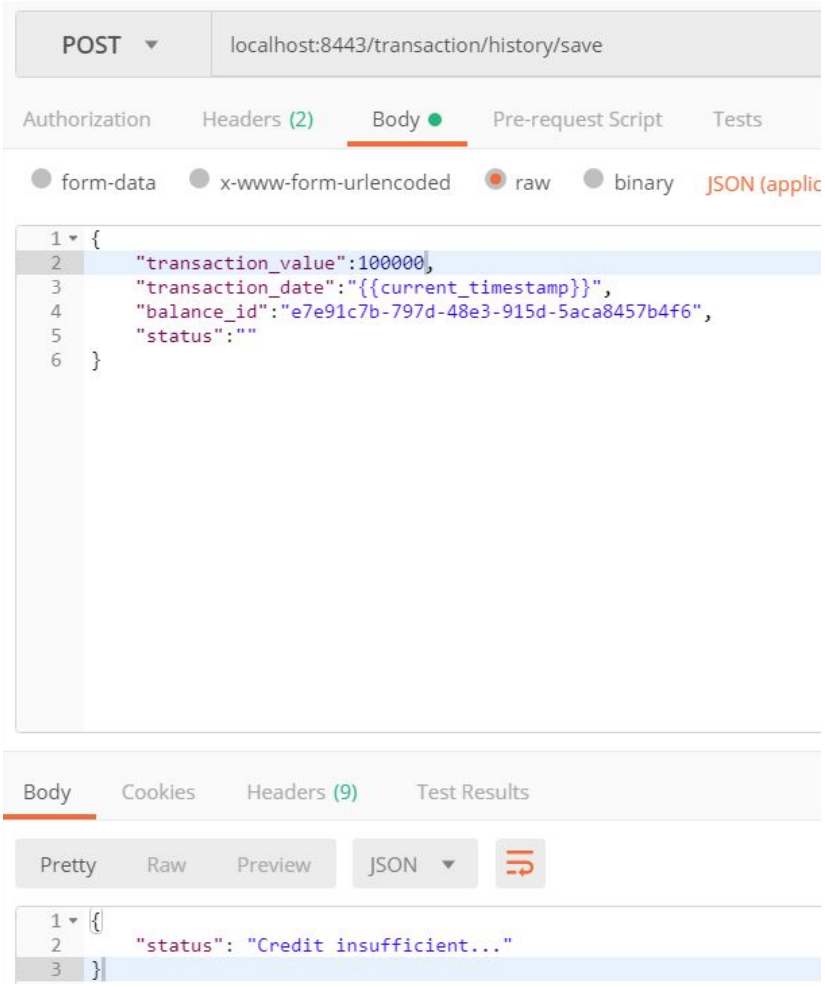
e7e91c7b-797d-48e3-915d-5aca8457b4f6	1234123412341234	2018-07-30	20000	92aef7f0-00df-4d80-ac05-94b938286c4f

Transaction history:

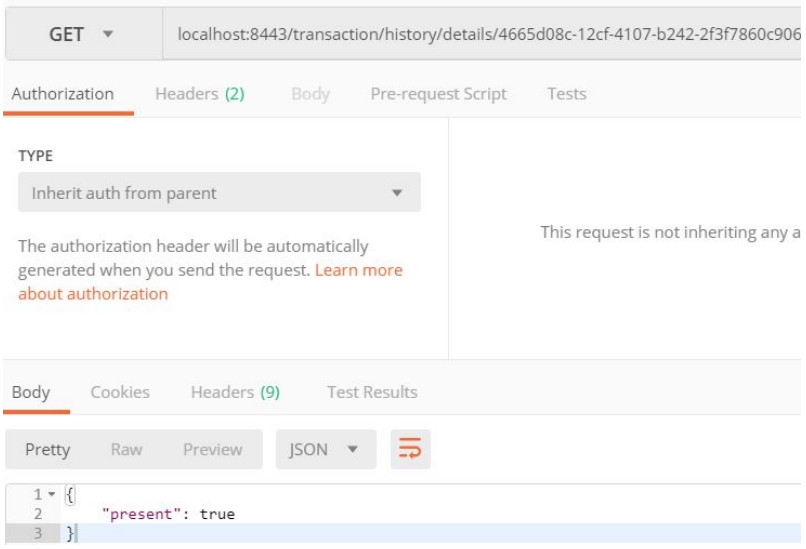
4665d08c-12cf-4107-b242-2f3f7860c906	10000	2018-07-31 09:52:25	e7e91c7b-797d-48e3-915d-5aca8457b4f6

Transactions can’t be made if:

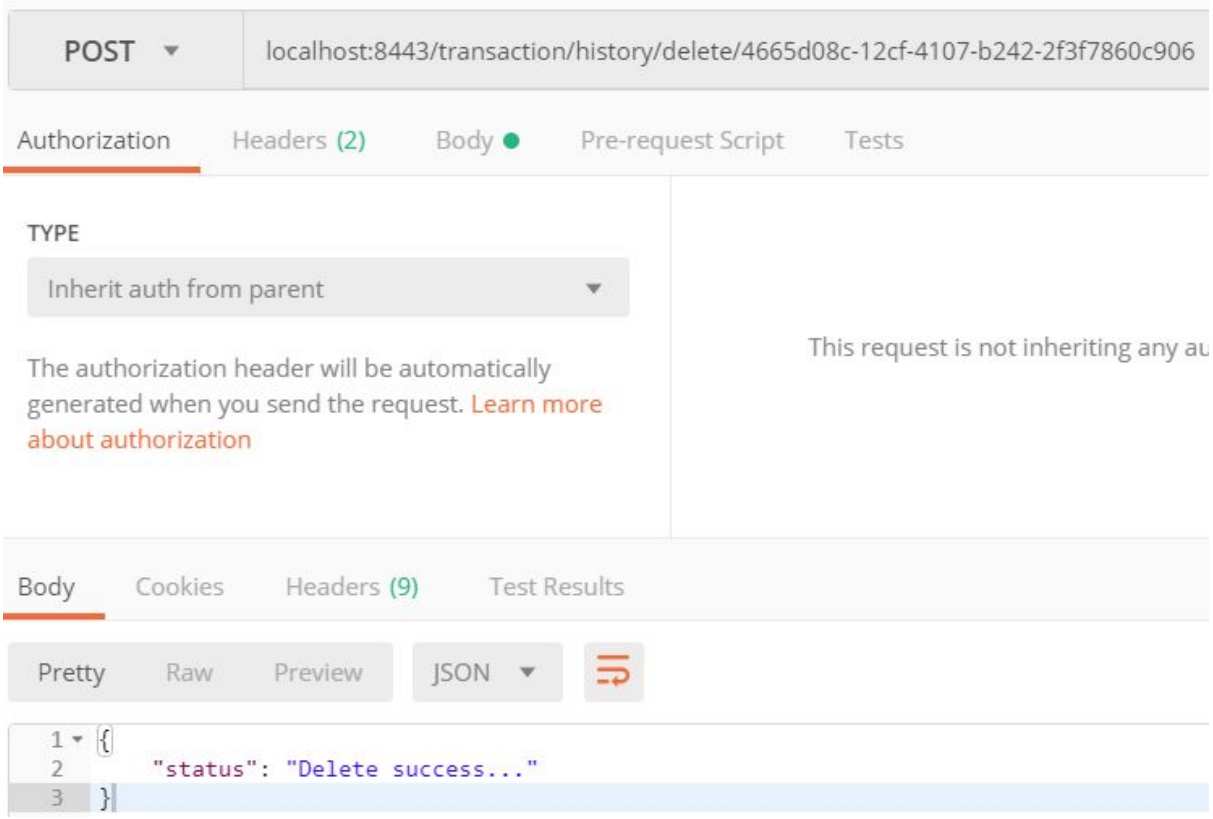
- Balance insufficient (transaction value is higher than the balance)



3. View transaction history details by ID
path = “/transaction/history/details/{id}” (method = GET)



4. Delete a transaction history
path = “/transaction/history/delete/{id}” (method = POST)
Transaction history status is set to “Inactive” after delete is done



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