

# FRONT

## Routes

**Registration** => registruj se

**Login** => uloguj se

**Profile** => pregled i izmena profila

**Wallet** => pregled stanja (**Account**), uplati sredstva (**Deposit**), posalji sredstva (**SendPayment**), razmeni sredstva (**Exchange**)

**History** => istorija deposit transakcija (**DepositTransactions**), istorija medju korisnickih transakcija (**UserToUserTransactions**), istorija exchange transakcija (**ExchangeTransactions**) (**Filter**, **Sort?**)

**ExchangeRate** => kursna lista

# PUTANJE

FRONT: localhost:3000

BACK: localhost:5000

Iz perspektive back-a, kakve njegove metode treba da budu, sta da vracaju:

## Login =>

method: POST

path: "/user/login"

payload: {email: string, password: string}

return: {user: object with all the user data}, OK / {}, 401

## Logout =>

method: POST

path: "/user/logout"

payload: {email: string}

return: {}, OK / {}, 401

## Verify =>

method: PUT

path: "/user/verify"

payload: {email: string, card\_details: {card\_number: int, card\_name: string, card\_expiration\_date: string, card\_security\_code: int}}

return: {}, OK / {}, 401

## Register =>

method: POST

path: "/user/register"

payload: {name, last\_name, address, city, country, phone\_number, email, password}

return: {}, OK

## ChangeProfile =>

method: PUT  
path: "/user/profile"  
payload: {email: string, user: new user data}  
return: {user: object with updated data}, OK

#### **Wallet =>**

method: GET  
path: "/user/wallet"  
payload: {email: string}  
return: {wallet: six fields, same names as they are in model}, OK

#### **Deposit =>**

method: POST  
path: "/transaction/deposit"  
payload: {email: string, amount: double, card\_details: {card\_number: int, card\_name: string, card\_expiration\_date: string, card\_security\_code: int}}  
return: {}, OK /

#### **SendPayment =>**

method: POST  
path: "/transaction/send"  
payload: {email: string, email\_sender: string, email\_receiver: string, amount: double, currency: string (names from wallet model)}  
return: {}, OK

#### **Exchange =>**

method: POST  
path: "/transaction/exchange"  
payload: {email: string, amount: double, currency\_from: string (names from wallet model), currency\_to: string (names from wallet model)}  
return: {}, OK

#### **History =>**

helpingLinks: <https://stackoverflow.com/questions/24892035/how-can-i-get-the-named-parameters-from-a-url-using-flask>  
method: GET  
path: "/transaction/history/{transaction\_type}?LegendForQuery"  
payload: {email: string}  
return: {transactions: [ (e.g. json objects, each contains => fields from deposit: corresponding values) ]}, OK

transaction\_type == deposit || user-to-user || exchange

LegendForQuery:

fieldFromModel (one or more) =correspondingValue

sort\_type == naziv\_polja\_iz\_modela

order\_type == asc || desc

example == /transaction/history/user-to-user?email\_reciver=someEmail&email\_sender=someOtherEmail&sort\_type=email&amount>500&sort\_type=emailReceiver&order\_type=asc

Fields to use for query:

user-to-user => sender, receiver, currency, amount

exchange => to\_currency, from\_currency, to\_amount, from\_amount, user

deposit => user, amount

**ExchangeRate** =>

method: GET

path: "/crypto"

payload: {email: string}

return: e.g. {'bitcoin': {'usd': 3461.27}, 'ethereum': {'usd': 106.92}, 'ripple': {'usd': 106.92}, 'ether': {'usd': 106.92}, 'dogecoin': {'usd': 106.92}}, OK

## NAPOMENE

\* Koristiti socket.io da bi server obavestio klijenta kada se zavrсило majnovanje.

Da bi back znao kada se zavrсило majnovanje moze samo da pokrene jedan thread koji ce da ima timeout kojim ce se simulirati majnovanje i posle majnovanja da pozove od socket.io funkciju koja ce da obavesti servera.

\* Back ne sme da ispunjava zahteve od nevalidiranog klijenta, treba da postoji zastita koja ce da onemoguci da nevalidirani klijent dobije uslugu jer na frontu ne moze da postoji adekvatna zastita za to.

\* Da bi vratio data u flasku treba da uradis samo => return data, 200  
Gde je 200 status code. Ima i komplikovanije ali ne znam da li je potrebno:

\* Front rucno menja is\_verified polje ako verifikacija vrati 200 OK

\* "mining" should be the name of emit() first param

```
from flask import Flask, json

@app.route('/login', methods=['POST'])
def login():
    data = {"some_key": "some_value"} # Your data in JSON-serializable type
    response = app.response_class(response=json.dumps(data),
                                   status=200,
                                   mimetype='application/json')

    return response
```