Client/Server web application communicating over a RESTfull API

TO RUN

- 1. In exchange directory run: source exchange/bin/activate
- In exchange directory run:

 sh install.sh
 (this file include packages, migrations, default data)
- In exchange/exchange_currency python manage.py runserver
 Access url administration panel: http://127.0.0.1:8000/admin/
- 4. In other terminal runserver frontend vue.
- In other terminal: ../frontend
 - (Maybe it is necessary run "vue init webpack frontend" to load folder "/node_modules")
 - o npm run dev
- Access url web: http://localhost:8080/

URL API

List the trades

You can see the list the trades in json format

Url: http://127.0.0.1:8000/api/v1/currency_list/

{"results": [{"identifier": "TRBE761DF", "sell_currency_code": "USD", "sell_amount": "12.00", "buy_currency_code": "EUR", "buy_amount": "34.00",
"rate": "1234.0000", "date_booked": "2019-08-28"), {"identifier": "TRE2C57B6", "sell_currency_code": "USD", "sell_amount": "343444.00",
"buy_currency_code": "EUR", "buy_amount": "343444.00", "rate": "1222.0000", "date_booked": "2019-08-29"), {"identifier": "TR412C8FB",
"sell_currency_code": "USD", "sell_amount": "500.00", "buy_currency_code": "USD", "buy_amount": "600.00", "rate": "45455.0000", "date_booked": "201908-29"}, {"identifier": "TR822104B", "sell_currency_code": "USD", "sell_amount": "500.00", "buy_currency_code": "USD", "buy_amount": "600.00", "buy_currency_code": "USD", "sell_amount": "500.00", "buy_currency_code": "USD", "buy_amount": "600.00", "buy_currency_code": "USD", "sell_amount": "500.00", "buy_currency_code": "USD", "buy_amount": "500.00", "buy_currency_code": "USD", "buy_currency_code": "US

Create new trade

url :

http://127.0.0.1:8000/api/v1/new_trade/?sell_currency=EUR&sell_amount=500&buy_currency=USD&buy_amount=600&rate=45455

```
{"SUCCESS": ["Todo ok"]}
```

Get the latest rate

Url: http://127.0.0.1:8000/api/v1/get rate/?base=EUR&symbols=USD

{"success": true, "error": "", "rates": 1.096588}

Administration panel

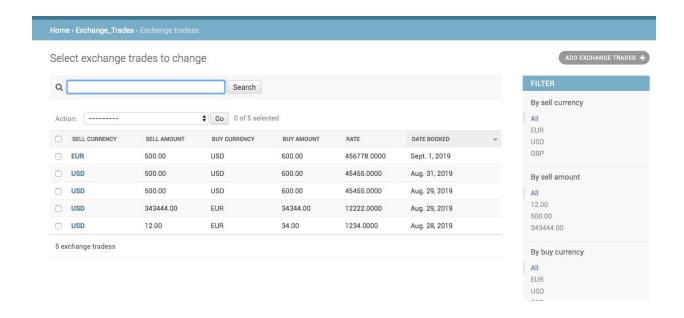
Currency list:

Url: http://127.0.0.1:8000/admin/exchange-trades/currency/

Select currency to change		ADD CURRENCY
Q	Search	FILTER
		By code
Action:	Go 0 of 3 selected	All
CODE	NAME	EUR GBP
GBP	Libra	USD
GBP USD	Libra	By name

List booked trades:

Url: http://127.0.0.1:8000/admin/exchange_trades/exchangetrades/

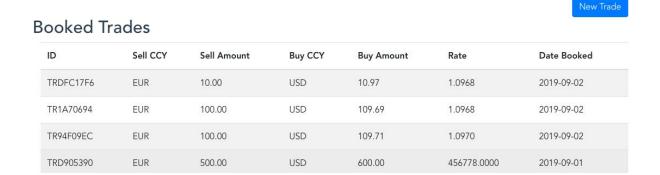


Application web

List the trades

List the trades existing in the database sorted by booking date

url: http://localhost:8080/



New Trade

Form to create new trade, first you select "sell currency" and "buy currency", the rate will be calculated automatic (response api fixer.io)

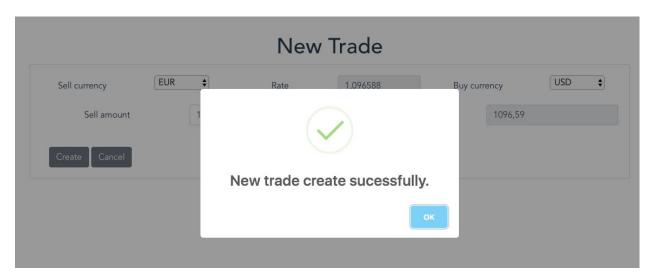
Then you put "sell amount" and "buy amount" also will be calculated.

Note: Correct example: sell currency: EUR, buy currency: USD

Url: http://localhost:8080/new

New Trade





If you click Cancel button you will be redirected to list trades.

ABOUT CODE

exchange_trades => Application

- api_rest => Folder with Api rest version, in this case v1 folder has the method put and get to new trade, exchange and list booked trades.
- migrations => Migrations app
- fixer.py => Manager to connect Fixer.io (exchange rate data sources)
- models.py => Application model (
- frontend =>