Bank Accounting API

Introduction

We finally got the API documentation. Let's take a tour

API

In each section of this part a URL is given as well as a method. In each case you have to send a request to the specified URL with the given method. If the method is POST, you have to send some data in json format to the server. (we do not know how to do that so it's your job to search about it)
Note that all the URLs contain your local ip address and not the server ip address

- http://127.0.0.1:8000/api/Login method: POST

Sample data input

```
{
    "username": "sep",
    "password": "123"
}
```

Sample response

```
{
    "non_field_errors": [
        "Unable to log in with provided credentials."
    ]
}
```

```
{
    "token":
        "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoxLCJ1c2VybmFtZSI6InNlcCIsImV4cCI6MTU4MDY0NDI0NCwiZW1haWwiOiIifQ.GohIh3Rlw1ae4T9WWNGn1FwUfDRwYS2SH17CPMpYB7c"
}
```


- http://127.0.0.1:8000/api/accounts/BankAccountListCreate method: POST, GET

Sample response for GET request


```
[
    {
        "accountNumber": "157712224022436000",
        "accountOwner": {
            "firstName": "sepehr",
            "lastName": "javid",
            "phoneNumber": "09360625961",
            "nationalCode": "2282117778",
            "accounts": [
                {
                    "accountNumber": "157712224022436000",
                    "status": "O"
                },
                {
                    "accountNumber": "157712298803598020",
                    "status": "O"
                }
            ]
        },
        "credit": 310,
        "status": "O"
    },
    {
        "accountNumber": "157712298803598020",
        "accountOwner": {
            "firstName": "sepehr",
            "lastName": "javid",
            "phoneNumber": "09360625961",
            "nationalCode": "2282117778",
            "accounts": [
                {
                    "accountNumber": "157712224022436000",
```

Sample data for POST request


```
{
    "accountOwner": {
        "firstName": "hassan",
        "lastName": "abbasi",
        "phoneNumber": "09368756476",
        "nationalCode": "228764563"
    }
}
```


Sample response for POST request:


```
{
    "accountNumber": "157718865300478530",
    "accountOwner": {
        "firstName": "hassan",
        "lastName": "abbasi",
        "phoneNumber": "09368756476",
        "nationalCode": "228764563",
        "accounts": [
            {
                "accountNumber": "157718865300478530",
                "status": "O"
            }
        ]
    },
    "credit": 0,
    "status": "O"
}
```


- http://127.0.0.1:8000/api/accounts/User/SignUp method: POST

Sample data input


```
{
    "username":"hassan",
    "password":"123"
}
```


Sample response


```
{
    "username": "hassan"
}
```

- http://127.0.0.1:8000/api/accounts/GetBankAccountLogs

  method: POST

  Sample data input

```
{
    "accountNumber":"157712224022436000"
}
```

  Sample response


```
{
    "currentCredit": 310,
    "logs": [
        {
            "id": 1,
            "amount": 100,
            "definition": "",
            "logType": "+",
            "date": "2019-12-23T17:31:38.853239Z"
        },
        {
            "id": 2,
            "amount": 100,
            "definition": "",
            "logType": "-",
            "date": "2019-12-23T17:31:59.578706Z"
        },
        {
            "id": 3,
            "amount": 100,
            "definition": "",
            "logType": "+",
            "date": "2019-12-23T17:31:59.595558Z"
        },
```


- http://127.0.0.1:8000/api/accounts/AddAccountToAccountOwner

  Method: POST

  Sample data input

```
{
    "nationalCode":"228764563"
}
```

Sample response


```
{
    "accountNumber": "157719676014101860",
    "accountOwner": {
        "firstName": "hassan",
        "lastName": "abbasi",
        "phoneNumber": "09368756476",
        "nationalCode": "228764563",
        "accounts": [
            {
                "accountNumber": "157718865300478530",
                "status": "0"
            },
            {
                "accountNumber": "157719676014101860",
                "status": "0"
            }
        ]
    },
    "credit": 0,
    "status": "0"
}
```


- http://127.0.0.1:8000/api/accounts/CloseAccount & http://127.0.0.1:8000/api/accounts/BlockAccount

  Method: POST

  Sample data input


```
{
    "accountNumber":"157712224022436000"
}
```


  Sample response


```
"ok"
```


- http://127.0.0.1:8000/api/accounts/BankAccountRetrieve/157712224022436000

  Method: GET

```
{
    "accountNumber": "157712224022436000",
    "accountOwner": {
        "firstName": "sepehr",
        "lastName": "javid",
        "phoneNumber": "09360625961",
        "nationalCode": "2282117778",
        "accounts": [
            {
                "accountNumber": "157712224022436000",
                "status": "C"
            },
            {
                "accountNumber": "157712298803598020",
                "status": "O"
            }
        ]
    },
    "credit": 310,
    "status": "C"
}
```


- http://127.0.0.1:8000/api/accounts/AccountOwnerRetrieve/2282117778
  Method: GET


```
{
    "firstName": "sepehr",
    "lastName": "javid",
    "phoneNumber": "09360625961",
    "nationalCode": "2282117778",
    "accounts": [
        {
            "accountNumber": "157712224022436000",
            "status": "C"
        },
        {
            "accountNumber": "157712298803598020",
            "status": "O"
        }
    ]
}
```


- http://127.0.0.1:8000/api/transaction/TransactionListCreate
  Method: POST, GET

Sample POSTdata input


```
{
    "fromAccount": "157712224022436000",
    "toAccount": "157712298803598020",
    "amount": 50,
    "definition": "",
    "cash": false
}
```


Sample POSTresponse


```
{
    "id": 10,
    "fromAccountNumber": "157712224022436000",
    "toAccountNumber": "157712298803598020",
    "amount": 50,
    "definition": "",
    "cash": false
}
```


Sample GET response


```
[
    {
        "id": 1,
        "fromAccountNumber": null,
        "toAccountNumber": "157712224022436000",
        "amount": 100,
        "definition": "",
        "cash": true
    },
    {
        "id": 2,
        "fromAccountNumber": "157712224022436000",
        "toAccountNumber": "157712224022436000",
        "amount": 100,
        "definition": "",
        "cash": false
    },
    {
        "id": 3,
        "fromAccountNumber": "157712224022436000",
        "toAccountNumber": null,
        "amount": 100,
        "definition": "",
        "cash": true
    },
    {
        "id": 4,
        "fromAccountNumber": "157712224022436000",
        "toAccountNumber": "157712224022436000",
        "amount": 100,
        "definition": "",
        "cash": false
```

Last words

Ok, now that you have the whole api, go ahead and work on it. By the way, you can test the api locally by running the server's source code on your local computer. Checkout the source code and clone it (we'll explain later) from the following github URL: https://github.com/sepehrjavid/CSE-101-student-project-backend.git

There's a file named install.bat. Run the file and when it's done, run the file named run.bat inorder to have the server up on your local computer.