

Mandatory Assignment 2

(SWC3) Web

This is one of the compulsory assignments you need to hand in, and pass, to qualify for 3rd semester exam.

Hand in date

KEA week 47, on Fronter.

EASJ week 46, on Wisseflow

Hand in info

- **Link to online repository**
- **OR**
- **one zip file with all your code.**

Overview:

This assignment will focus on the Web Technologies we have been studying.

Each of you will have an account and a currency on The Bank. The account has a starting amount of 100. And the currency is your UNI-username. You will need to create a WebApp able to interact with an API (The Bank).

Minimum Functional requirements for the WebApp

- Display your account information
- Set xx amount of your currency on an offer
- Buy available offers

Minimum Technical requirements

- Create a single page WebApp that will interact with the API (The Bank).
 - You may have as many files(html, css, js, php etc.) as you wish, but you need to make the user feel like (s)he is on the same page, so (s)he is not being linked to other pages when (s)he interacts with your WebApp.
- Bootstrap. You need to include minimum one Bootstrap element.
- The information on your WebApp can not be older than 5min. So the app needs to retrieve new information from the API at least every 5th min. Furthermore this action should not require the user to update the page.

API Documentation

Temporary Link:

<http://52.57.228.6/man2API/php/BankPhp.php>

Set an Offer For Sell

Call

~?what=sell&amount={##}&apikey={key}

Result

```
{
  "req":{
    "code":"200",
    "status":"OK",
    "method":"GET"
  },
  "user":{
    "name":"DENN5111",
    "apikey":"*****"
  },
  "what":"sell",
  "data":{
    "id":"1",
    "amount":"23.24",
    "currency":"DENN5111",
    "since":"2016-10-23 21:57:16"
  }
}
```

Get all Offers For Sell

Call

~?what=offers&apikey={key}

Result

All the offers for sell at the moment.

```
{
```

```

    "req":{
      "code":"200",
      "status":"OK",
      "method":"GET"
    },
    "user":{
      "name":"NICO381M",
      "apikey":"*****"
    },
    "what":"offers",
    "data":[
      {
        "id":"1",
        "amount":"23.24",
        "currency":"DENN5111",
        "since":"2016-10-23 21:57:16"
      },
      {
        "id":"2",
        "amount":"1.36",
        "currency":"NICO381M",
        "since":"2016-10-23 21:58:41"
      }
    ]
  }

```

Buy a specific offer

Call

~?what=buy&offer={id}&apikey={key}

Result

Confirmation status.

```

{
  "req":{
    "code":"200",
    "status":"OK",
    "method":"GET"
  },
  "user":{
    "name":"SKYX0002",
    "apikey":"*****"
  },
  "what":"buy",

```

```
"data":{
  "id":"2",
  "offerCurrency":"NIC0381M",
  "buyCurrency":"SKYX0002",
  "amount":"1.36",
  "offerTime":"2016-10-23 21:58:41",
  "buyTime":"2016-10-23 22:02:12"
}
```

Get a specific exchange rate

Call

~?what=exchange_rate&from={currency}&to={currency}&apikey={key}

Result

The conversion rate for 100 from={currency} to to={currency}.

```
{
  "req":{
    "code":"200",
    "status":"OK",
    "method":"GET"
  },
  "user":{
    "name":"DENN5111",
    "apikey":"*****"
  },
  "what":"exchange_rate",
  "data":{
    "from":"luca0526",
    "to":"vict1074",
    "amount":"100"
  }
}
```

Get account info

Call

~?what=account_info&apikey={key}

Result

```
{
  "req":{
    "code":"200",
    "status":"OK",
    "method":"GET"
  },
  "user":{
    "name":"DENN5111",
    "apikey":"*****"
  },
  "what":"account_info",
  "data":[
    {
      "amount":"100.00",
      "currency":"DENN5111"
    }
  ]
}
```

Please report your error here:

<https://github.com/alex-prog/TheBankErrorReport/issues>