

# Tech challenge

## Bank account kata

If you want to be considered for a **backend job position**, implement a server-side application that expose all functionality through a RESTful HTTP API and use a database for storing and retrieving data.

If you want to be considered for a **frontend job position**, implement a browser application that handle all behavior. It is ok that data is lost when user refresh the page.

If you want to be considered for a **full-stack job position**, implement the browser application and the server-side application.



## Requirements

- No user authentication required.
- As a user I want to deposit money to my account.
- As a user I want to withdraw money from my account.
- As a user I want to transfer money to another account (only IBAN accounts supported).
  - Application must prevent user from sending money to a non-IBAN account.
- As a user I want to see my account statement (date, amount, balance).
  - Application must display the account statement sorted by date (most recent first), by default. Example:

Date	Amount	Balance
23.8.2016	-100	400
24.12.2015	+500	500

- Bonus 1

- As a user I want to sort my account statement by date (in ascending and descending order).
- Bonus 2
  - As a user I want to search movements filtering by deposits, withdrawals and date ranges (combination of filters must be implemented with "AND" logical operator).
  - Application must display search results sorted by date (most recent first), by default.
  - As a user I want to sort search results by date (in ascending and descending order).
- Bonus 3
  - For both account statement and search results, application must paginate movements when there are more than 10 elements.
    - As a user I want to see next page
    - As a user I want to see previous page
    - As a user I want to see first page
    - As a user I want to see last page