



PROGmasters Fundraiser App

(Spring REST + ReactJS)

The task is to create a fundraising application that handles transfers from bank accounts to special caritative goals to support them.

After registration, a user is logged in automatically and has an account with a predefined amount (5000) of credits (or dollars).

The login is bound to an IP address, it means that from the same client/same IP address there's no possibility to log in twice.

1. Registration screen

The registration screen features a title 'Register' at the top. Below it, there are two input fields: 'Username:' and 'Goal:'. The 'Goal:' field is intended for the noble cause the user wants to support. At the bottom, there is a blue 'Register' button.

The first screen is the Registration screen, the user has to enter his/her user name and define a goal. This goal is the noble cause that the user wants to support.

2. My account screen

The home screen (My account) shows the details of the user's account: user name, goal, balance (amount the user can spend), funds (amount that is received from other accounts). It lists all the transfers this account was involved in (either as source or target).

The 'My Account' screen displays the following information in a form-like layout:

- User Name: János
- Goal: Minőségi informatikai oktatás
- Balance: 900
- Funds Raised: 3300

Every account has a subaccount for this noble cause that acts like a fund. In general, it means that incoming transfers to the user's account will be added to this fund. In the same way, when the user transfers money to someone else's account, the amount of the transfer will be added to the target fund.

This screen also displays the transfers related to this account:

My Transfers			
Incoming:			
From	To	Amount	Date
Ivett	Minőségi informatikai oktatás	100	2018-09-02 08:49:03
Ivett	Minőségi informatikai oktatás	1000	2018-09-02 09:04:21
Ivett	Minőségi informatikai oktatás	100	2018-09-02 09:25:03
Outgoing:			
From	To	Amount	Date
János	Még több sört	1000	2018-09-02 12:50:25
János	Vidék fejlesztése	1000	2018-09-02 12:50:32

3. Transfer funds screen

Transfer Funds

From:

János

To:

Még több sört

Amount:

550

My Balance:

900

Transfer

The “Transfer funds” page is for making the transfers from one account to another. The source account is fixed (Transfer from) to the actual user’s account. The target can be selected from a drop-down list, and it’s the list of the other logged in users. The logged in user cannot make a transfer to him/herself. The amount can be between 50 and 1000, and cannot go below 0. With hitting the “Transfer” button a new transfer will be saved in the system that contains the source and target accounts, the amount and a timestamp.

4. Accounts screen

Accounts			
Goal	Name	Remaining balance	Funds raised
Minőségi informatikai oktatás	János	900	3300
Cuki cicáknak gazdát	Ivett	3700	2650
Még több sört	Géza	3950	1600
Vidék fejlesztése	Feri	2900	1000

The “Accounts” screen shows all the accounts sorted by funds in descending order, and all transfers that happened so far in the system sorted by creation date (latest first). This page refreshes itself every 10 seconds to show the changes.

The “Accounts” screen also shows all the transfers sorted by date in descending order.

All Transfers			
From	To	Amount	Date
Ivett	Minőségi informatikai oktatás	100	2018-09-02 08:49:03
Ivett	Minőségi informatikai oktatás	1000	2018-09-02 09:04:21
Ivett	Minőségi informatikai oktatás	100	2018-09-02 09:25:03
Ivett	Minőségi informatikai oktatás	100	2018-09-02 12:14:51
Géza	Cuki cicáknak gazdát	50	2018-09-02 12:20:00