

Funds Transfer & Social Media Service (ZelleMeMo)

2019 SOFTWARE DESIGN
TEAM PROJECT

Problem Description

The goal of this project is to implement a multi-user service for transferring funds between individuals/businesses/banks in Java. The balance shown in the app may be an “in-app” balance or an associated bank/credit account. The platform should provide an engaging user experience. You may want to differentiate your platform from other teams (remember, this is a competition) by providing peripheral experiences (e.g., social media). This is a prototype because it will be built as a stand-alone system (it does not need to run in a web browser).

This problem statement is purposefully open-ended. The primary focus of your efforts is to make a platform that is compelling for your classmates to utilize. You should impress the judges of this competitive coding competition by demonstrating use of a wide range of software design features in your application.

Minimum Specifications

1. A server component that facilitates interactions between clients.
2. The server must allow for at least four distinct registered users, with unique identifiers.
3. Clients must connect to the server and be able to verify identity of user.
4. A client can register an individual who wants to pay or receive payments.
5. Multiple simultaneous client-server interactions must be supported.
6. Transactions (e.g., transfers and social media content) should be recorded by the server.
7. Transactions should allow the user to attach a memo or comment.
8. At least two levels of access (privacy) must be supported to allow users to share (or not share) transaction histories of others.

Code Online/Cheating

Since implementations of similar platforms can be found online, remember that anything you can find by Googling we can certainly find too. You are required to **implement and understand** all code. The course policies are **VERY** clear about our policies regarding cheating and using code found online. Just don't do it. If you have questions or need clarification, don't hesitate to ask. **No use of Firebase / other mBaaS.**

Suggested Additional Features

1. Server/maintenance GUI.
2. Dividing payments among groups of users.
3. Support for other types of clients (merchants, banks)
4. Different levels of user accounts (free, subscription, premium, etc)
5. User ratings
6. Real time chatting.
7. Photo, audio, video

8. Dream up new ideas of your own – it's a competition!

