

EasyLeasing

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Purpose of the Application

In our daily lives and in groups of friends or coworkers, it is easy to lose track of all the money that gets borrowed between people. For snack machines, coffee and even lunch, people often need to borrow some money. However, after a couple of “loans”, its difficult to remember to who we owe money or who owes us money.

EasyLeasing is a financial tool/application that allows the user to manage and collect their debts in an easy and intuitive fashion. With it, users can keep records of all personal debts and loans and easily transfer their debts to someone who owes them, keeping things well organized.

Main features

1. Borrow/lend money and services
2. Transactions have support for preset and custom currencies
3. View by debt direction or debtors
4. Automatic debt synchronization
5. Recurring debts and payments
6. Partial debt payments
7. Automatic debt management
8. Keep track of your friends and past debtors/creditors
- 9.

Web Services

3rd party web services (APIs)

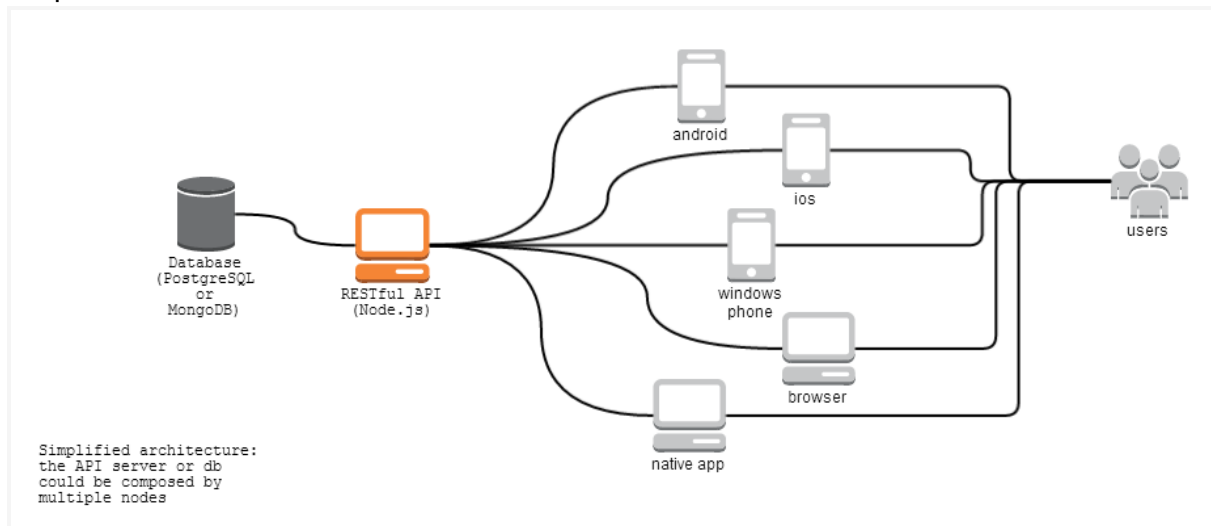
- Authentication providers (“Login with..”)
 - Facebook
 - Google
 - Twitter
 - Github
- Friends list
 - Facebook

- Google Plus
- Others
 - Gravatar (User avatars)
 - Open Exchange Rates (Currency conversion)
 - reCaptcha (Prevent automated abuse of the application)

Provided services

We provide a RESTful API server that will be implemented in Node.js backed by a PostgreSQL database.

Proposed architecture:



Proposed API specification: <https://dduarte.github.io/feup-sdis-debts/api.html>

Target Platforms

- Server
 - RESTful API server - Node.js
 - Database - PostgreSQL
- Client applications
 - Native applications (Windows)
 - Android
 - iOS
 - Windows Phone
 - Website

Additional Services and Improvements (*if* time permits)

- Paypal developer API (money transactions)
- More OAuth 2.0 or OpenID authentication providers
- Location-aware applications (e.g NFC, Bluetooth)