



Dhirubhai Ambani
Institute of Information and Communication Technology

IT314: SOFTWARE ENGINEERING

Project Proposal

Topic : Expense Management System like Splitwise

Project Title:- SplitEasy

Guide TA :- Pinak Gajera

Group Number : 11

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System description:-

In our daily life, we have to keep the track of our expenses and keep a note of the amount we owe to our friends/relatives or the amount they owe us. For example, When we go on a trip or for dinner in a group, then usually it is convenient that only one person pays for the bill. Manually keeping track of these expenses will be inefficient, time-consuming, and error-prone. Errors made in manually maintaining the expenses could end up consuming a large amount of time, figuring out the error. So, we need a tool that will keep track of our expenses, which is the main motivation behind developing the system.

This project is meant to offer a shared expenses solution that is faster, easier, and more convenient than manually calculating and handling expenses.

The following are some of the main features and the functionalities to add to the system as per the user requirement. The features are divided into two parts: Core features and optional features of which core features are important for the application's activity while the optional features will add some new functionality to the system. The last option features might be executed as time permits.

Core Features

1. Intuitive and Easy User Interface

The users could be anyone with a little technological background, so the system must be intuitive and easy to use.

2. Users can add or settle expenses, either in the group or with an individual person

The expenses made could be in groups or pairs, so the user should be able to add expenses conveniently in both cases

3. Easy sign-up process

The user should be able to make an account in the system and verify their identity easily.

4. Transaction Activity Log

Users should be able to keep track of all the expenses added by them or their friends.

5. Support of “Transactions in Multiple Currency”

The expenses made could be in any currency as the user could be living in any country, the user should be able to add the expenses in any currency they prefer.

Optional Features

1. Monthly expense report

The user should be able to keep track of all the expenses made during the month and should be able to see the net cash flow during the month in form of an expense report.

2. Users can ping their friends

The user should be able to remind their friends of the pending settlements or any other expenses made. Having a simple messaging system can help the users with this.

3. Set profile feature

User should be able to set up their profile and personalize them as well. This makes the UI look more personal and friendly, and improves the overall user experience.

4. 2 step authentication security feature

Security is of the utmost priority as it is an application related to finances and hence there should be a feature to make the process easy.

Platforms:

We plan on using VS Code and Atom as our primary code editors.

Development Technologies:

We will try to incorporate the following technologies in our project:

HTML, CSS, JavaScript, ReactJS, Firebase or MongoDB, Express, NodeJS .