

Expense Management System like

Splitwise

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### **System description**

This will be an expense management system where the users can divide and manage their shared expenses. The app keeps balances between people, as in who owes how much to whom. This system makes it easy to split bills with friends and family. The app can organize all the shared expenses in one place so that everyone can see who they owe.

The system should allow the users to login using email or phone number. The system will be able to perform the following tasks: The users can make different sections for the different groups of expenses that they have been a part of. The users will be able to add their friends and groups to the expenses. The bills or money can be split equally or unequally(e.g. Weighted splitting) among the users as per the input from the users. The system will guide the users in simplifying their debts. The expenses should be synced in the cloud so no loss may arise. The users will be able to use the system in various languages. The system will be able to support any currency that the user is dealing in. The system should notify the user about recurring expenses in considerable time.

It should support payment gateways for payments. The algorithm should show the series of payments such that the expenses are balanced with a minimum number of transactions. For example, A needs to pay 50 to B, and B needs to pay 50 to C; the system should suggest that A pay 50 to C.

### **Planned technology stack/ platform**

* Front end
  + HTML
  + CSS
  + Javascript
* Back end
  + Java
  + Django
  + Rest API
* Database
  + Firebase
* Tools
  + Git