**Backpacks And Beyond Book Keeping App**

Programmer: Micah Jenkins

“Customer”: Genny Jenkins – Backpacks and Beyond

DONE BY: (preferably end of thanksgiving break, so that it can be tested more thoroughly) January 1st 2016

Description:

She wants a program where she can type in the receipt amounts, dates, and types AND donation names, dates, amounts. The program will keep track of how much money the charity has and will produce several types of reports at the end of the year.

Considerations:

* Needs to be as user friendly as possible.
* For the first year, she should probably keep a written book too to make sure it works out properly.
* Needs to be able to enter old and new info and manually update the balance (password protected?)
  + Add donations
  + Add expenses
* Need to be able to view balance, total in, total out, without having to create a report
* Needs to hold several years of info

Ideas:

* Password protected
* Reports in CSV format so she can print excel sheets
* Needs a load feature in the background
* Only load and store info for each Contributer class object and maybe totals. All other info can be calculated if it is needed for a report or something.
  + Only calculate other info if a report is requested otherwise, it just takes up time unnecessarily
  + Format: Balance,Year,In,Out,Total,name,date,$,date,$name,date,$,category,date,$,Year
* Use a hash table to organize the Donators over several years?

Objects: (Subject to change)

* Transaction: date, amount(+ for donation, - for expense)
* These could be the same object?
  + Sponsor: name, LL of transactions
  + Expense: category, LL of transactions
  + If they were combined to be one object 🡺 Contributer: name, LL of transactions, total, bool isExpense
* Make these the same class!!!!
  + Donations: vector of Contributer (all isExpense would be false), monthly totals, total
  + Expenses: vector of Contributer (all isExpense would be true), monthly totals, total
* Book: Expenses, Donations
* MasterBook:
  + Option 1: hash by year of Books, running account total, maybe a vector that holds all the years?

(INSERT PICTURES FROM OUR MEETING HERE)