User Requirements

1. Allow user to create a transaction
2. Allow user to create an account
3. Allow user to view transactions
4. Allow user to view account history/information
5. Allow user to view a summary of transactions

System Requirements

1. System shall allow users to enter a transaction
   1. System shall present an interface to enter a transaction
   2. System shall allow user to enter amount, description, account, category, date, and notes about transaction
   3. System shall create a transaction and update database accordingly
2. System shall allow users to create accounts
   1. System shall present an interface to create an account
   2. System shall allow users to enter a name and starting balance for account
   3. System shall present an interface to rename accounts
   4. System shall create accounts and update database accordingly
3. System shall allow users to view transaction history
   1. System shall present an interface to view transaction history
   2. System shall allow users to filter transactions by time
   3. System shall allow users to see transaction history by category
4. System shall allow users to view account history and information
   1. System shall present an interface to view current balances of accounts
   2. System shall present an interface to see transaction history of account
5. System shall allow users to view summary of transactions
   1. System shall present an interface to display costs and income
   2. System shall allow user to filter summary by time and category
6. System shall be written in python
7. System shall utilize SQL as database
8. System will run on Windows and Linux operating systems

Database Entities and Attributes

* Accounts have an account id(PK), name, and balance. An account may have one or many transactions
* Transactions have transaction id/#(PK), amount ,account id(FK), description (what is the transaction for), category id(FK), timestamp/date, notes
* Categories has category id(PK) and name and categories may have one or many transactions.
* Transaction can only have one category
* Transaction can only be apart of one account