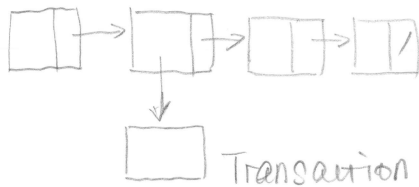


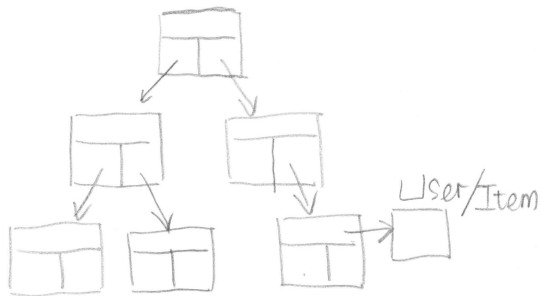
## Data Structures:

### List:



Each node in the list will point to an instance of class Transaction. Data structure of list is used to implement class History.

### BSTree:

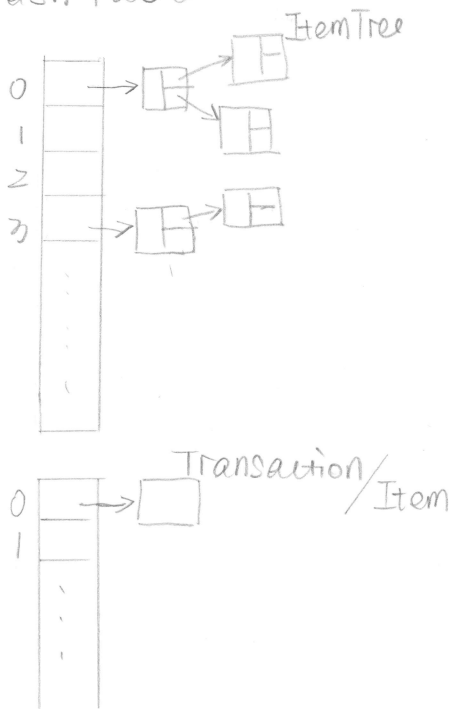


Data Structure of BSTree is used to implement two classes: UserCollection and ItemTree.

In UserCollection, each node in BSTree will point to an instance of class User.

In ItemTree, each node in ItemTree will point to an instance of class Item.

### HashTable



Data Structure of HashTable is used in three classes: ItemCollection, TransactionFactory, and ItemFactory.

In ItemCollection, hash index will point to an instance of class ItemTree.

In TransactionFactory, hash index will point to an instance of class Transaction.

In ItemFactory, hash index will point to an instance of class Item.