

Method/Class	Description
User(string username, string privilege, string password, float credit)	Initializes a User object with a username, privilege, password, credit.
Admin(String username, String password, float credit)	Initializes an Admin User object with a privilege "AA"
FullStandard(String username, String password, float credit)	Initializes an Admin User object with a privilege "FS"
BuyStandard(String username, String password, float credit)	Initializes an Admin User object with a privilege "BS"
SellStandard(String username, String password, float credit)	Initializes an Admin User object with a privilege "SS"
Transaction(Backend backend, string transaction_code)	Forms transaction codes based on user actions
Item(string item_name, User seller, User top_bidder, int days_left, float top_bid)	Initializes item information with name, seller, top bidder, days left and top bid amount
Backend(List[Transaction] Transaction, List[User] User, List[Items] items, string transaction_filename, string user_filename, string items_filename)	Organises merged transaction files
Backend.set_merged_daily_transaction()	Sets merged transaction information
Backend.set_available_users()	Set users and information
Backend.set_available_items()	Set items and information
Backend.find_user(String username)	Finds username of user
Backend.find_item(String item_name, User seller)	Finds item name and seller information
Backend.write_new_available_users()	Write new user information into daily file
Backend.write_new_available_items()	Write new item information into daily file
Create(User new_user)	Performs the creation of a new user by getting and setting user information in the system.
Create.process_transaction(Backend backend)	Performs the create transaction to the new user
Delete(User old_user)	The class deletes the user by using a getter and setter to retrieve user information and delete them from the system.
Delete.process_transaction(Backend backend)	Updates the deleted user on the user side
Refund(User seller, User buyer, float refund_amount)	Refund Class is used to process refunds that are requested by users.

Refund.process_transaction(Backend backend)	Process the refund and apply the credit values to the buyer and seller
Advertise(Item new_item)	Advertise allows the user to create an item and put it up for sale on the auction by getting and setting the item.
Advertise.process_transaction(Backend backend)	Updates the item list with the new item made on advertise
Bid(Item item_to_edit, float new_bid, User bidder)	When there is an item on sale in the auction, the user is able to place a bid on the item.
Bid.process_transaction(Backend backend)	Updates/place the bid on the item
AddCredit(User user_to_edit, float new_credit)	AddCredit allows it so the user can add credits into their account
AddCredit.process_transaction(Backend backend)	Applies the credit and updates it to the user