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Design Document (Deliverable 1):

TextUI	calls
TextUI	allows only a single instantiation of the TextUI class (private field) and enables the main function with easy access to this driver class
ViewProductsForSale	… the Product class in order to print all currently being sold product ids and names to the user's screen
ViewHistoryProducts	… the Product class in order to print a history of all product bids to the user's screen
GetSeller	… the User class in order to return the seller requested by name, passed in as an input parameter, returns null if the seller is not found
GetBuyer	… the User class in order to return the buyer requested by name, passed in as an input parameter, returns null if the buyer is not found
MakeNewUser	… the User class in order to create a new user (buyer/seller) and inserts the new user within its respective classification
AddNewProduct	… the Product and User classes in order to append a new product to the seller's list of products for sale
AddBidToProduct	… the Product and User classes in order to locate the item the buyer wants to place a bid on, then sets the buyers current bid on that item (given that the item is in stock and currently being sold)

Message	calls
Message	… the User class in order to determine which buyer/seller combination are both sending and receiving any given message
GetSender	… the User class in order to verify and return the name of the user sending the message

GetReceiver	… the User class in order to verify and return the name of the user receiving the message
GetContent	accesses and returns a string of information containing the message content being sent between sender and receiver

Product	calls
Product	requires name, basePrice, quality, and name of seller as parameters in order to instantiate a new product
GetProductName	accesses the name_ private field and returns the name of that given product
GetStatus	accesses the status_ private field and returns the status of that given item
SetStatus	accesses the status_ private field and sets whether or not the product
GetBasePrice	accesses the basePrice_ private field and returns the basePrice of that given item
GetHighestBidInfo	accesses the bidList_ private field and returns the top value (highest bid, priority queue) of that given item
SetCurrentBid	accesses the bidList_ private field and sets the current bid of the product as determined by the seller of that product
GetQuality	Accesses the quality_ private field and returns the quality of that given item

User	Calls
User	requires name, phone number, and account balance of the buyer/seller as parameters in order to instantiate a new user, the address field is only needed in cases where the seller intends to have products picked up and when the buyer is being sent products via delivery
GetUsername	accesses the username_ private field and returns the username of that given user
UpdateUsername	accesses the username_ private field and updates the username of that given user with a passed in username parameter
GetAddress	accesses the address_ private field and returns the address of that given user

UpdateAddress	accesses the address_ private field and updates the address of that given user with a passed in address parameter
GetPhoneNum	accesses the phoneNum_ private field and returns the phone number of that given user
UpdatePhoneNum	accesses the phoneNum_ private field and updates the phone number of that given user with a passed in phone number parameter
GetAccountBalance	accesses the accountBalance_ private field and returns the account balance of that given user
UpdateAccountBalance	accesses the accountBalance_ private field and updates the account balance of that given user with an amount (passed in) to increment/decrement with
ReadMessage	… the Message class in order to assess all messages that have been sent to that given user
SendMessage	… the Message class in order to send a new message to a user of the opposite classification
GetRate	accesses the rate_ private field and returns the rating of that given user
RateUser	accesses the rate_ private field and updates the rating of that given user by taking an average of all previously rated values plus the appension of a new rating value