

User Commands:

- All of the following commands must be supported from the client console.
- The ability to dump a log of all transactions must be supported from a supervisory client (which you can implement as part of your group project web site)

Command	Parameters	Purpose	Pre-conditions	Post-Conditions	Example
ADD	userid, amount	Add the given amount of money to the user's account	none	the user's account is increased by the amount of money specified	ADD,jsmith,200.00
QUOTE	userid,StockSymbol	Get the current quote for the stock for the specified user	none	the current price of the specified stock is displayed to the user	QUOTE,jsmith,ABC
BUY	userid,StockSymbol,amount	Buy the dollar amount of the stock for the specified user at the current price.	The user's account must be greater or equal to the amount of the purchase.	The user is asked to confirm or cancel the transaction	BUY,jsmith,ABC,200.00
COMMIT_BUY	userid	Commits the most recently executed BUY command	The user must have executed a BUY command within the previous 60 seconds	(a) the user's cash account is decreased by the amount user to purchase the stock (b) the user's account for the given stock is increased by the purchase amount	COMMIT_BUY,jsmith
CANCEL_BUY	userid	Cancels the most recently executed BUY Command	The user must have executed a BUY command within the previous 60 seconds	The last BUY command is canceled and any allocated system resources are reset and released.	CANCEL_BUY,jsmith
SELL	userid,StockSymbol,amount	Sell the specified dollar amount of the stock currently held by the specified user at the current price.	The user's account for the given stock must be greater than or equal to the amount being sold.	The user is asked to confirm or cancel the given transaction	SELL,jsmith,ABC,100.00
COMMIT_SELL	userid	Commits the most recently executed SELL command	The user must have executed a SELL command within the previous 60 seconds	(a) the user's account for the given stock is decremented by the sale amount (b) the user's cash account is increased by the sell amount	COMMIT_SELL,jsmith
CANCEL_SELL	userid	Cancels the most recently executed SELL Command	The user must have executed a SELL command within the previous 60 seconds	The last SELL command is canceled and any allocated system resources are reset and released.	CANCEL_SELL,jsmith
SET_BUY_AMOUNT	userid,StockSymbol,amount	Sets a defined amount of the given stock to buy when the current stock price is less than or equal to the BUY_TRIGGER	The user's cash account must be greater than or equal to the BUY amount at the time the transaction occurs	(a) a reserve account is created for the BUY transaction to hold the specified amount in reserve for when the transaction is triggered (b) the user's cash account is decremented by the specified amount (c) when the trigger point is reached the user's stock account is updated to reflect the BUY transaction.	SET_BUY_AMOUNT,jsmith,ABC,50.00
CANCEL_SET_BUY	userid,StockSymbol	Cancels a SET_BUY command issued	The must have been a SET_BUY Command issued for the given stock by the user	(a) All accounts are reset to the values they would have had had the SET_BUY Command	CANCEL_SET_BUY,jsmith,ABC

		for the given stock		not been issued (b) the BUY_TRIGGER for the given user and stock is also canceled.	
SET_BUY_TRIGGER	userid,StockSymbol,amount	Sets the trigger point base on the current stock price when any SET_BUY will execute.	The user must have specified a SET_BUY_AMOUNT prior to setting a SET_BUY_TRIGGER	The set of the user's buy triggers is updated to include the specified trigger	SET_BUY_TRIGGER,jsmith,ABC,20.00
SET_SELL_AMOUNT	userid,StockSymbol,amount	Sets a defined amount of the specified stock to sell when the current stock price is equal or greater than the sell trigger point	The user must have the specified amount of stock in their account for that stock.	A trigger is initialized for this username/stock symbol combination, but is not complete until SET_SELL_TRIGGER is executed.	SET_SELL_AMOUNT,jsmith,ABC,550.50
SET_SELL_TRIGGER	userid,StockSymbol,amount	Sets the stock price trigger point for executing any SET_SELL triggers associated with the given stock and user	The user must have specified a SET_SELL_AMOUNT prior to setting a SET_SELL_TRIGGER	(a) a reserve account is created for the specified amount of the given stock (b) the user account for the given stock is reduced by the max number of stocks that could be purchased and (c) the set of the user's sell triggers is updated to include the specified trigger.	SET_SELL_TRIGGER,jsmith,ABC,120.00
CANCEL_SET_SELL	userid,StockSymbol	Cancels the SET_SELL associated with the given stock and user	The user must have had a previously set SET_SELL for the given stock	(a) The set of the user's sell triggers is updated to remove the sell trigger associated with the specified stock (b) all user account information is reset to the values they would have been if the given SET_SELL command had not been issued	CANCEL_SET_SELL,jsmith,ABC
DUMPLOG	userid,filename	Print out the history of the users transactions to the user specified file	none	The history of the user's transaction are written to the specified file.	DUMPLOG,userid,filename
DUMPLOG	filename	Print out to the specified file the complete set of transactions that have occurred in the system.	Can only be executed from the supervisor (root/administrator) account.	Places a complete log file of all transactions that have occurred in the system into the file specified by filename	DUMPLOG,out.dump
DISPLAY_SUMMARY	userid	Provides a summary to the client of the given user's transaction history and the current status of their accounts as well as any set buy or sell triggers and their parameters	none	A summary of the given user's transaction history and the current status of their accounts as well as any set buy or sell triggers and their parameters is displayed to the user.	DISPLAY_SUMMARY,userid