



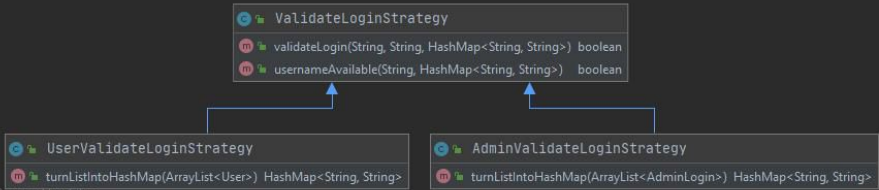
TradeCreator		
serialVersionUID	long	
pendingTrades	ArrayList<Trade>	
pendingTradeRequests	ArrayList<Trade>	
tradeHistories	TradeHistories	
completeThreshold	int	
borrowLendThreshold	int	
tradeIdGenerator	int	
getTradeHistories()	TradeHistories	
getPendingTrades()	ArrayList<Trade>	
getPendingTradeRequests()	ArrayList<Trade>	
onStartup()	void	
fetchPastDateTrades()	ArrayList<Trade>	
createTradeRequest(TradingUser, TradingUser, ArrayList<Integer>, ArrayList<Integer>, LocalDateTime, String)	int	
createTemporaryTradeRequest(TradingUser, TradingUser, ArrayList<Integer>, ArrayList<Integer>, LocalDateTime, String)	int	
acceptTradeRequest(Trade, String)	void	
declineTradeRequest(Trade)	void	
editTradeRequest(Trade, LocalDateTime, String, String)	void	
searchPendingTradeRequest(int)	Trade	
searchPendingTradesByUser(TradingUser)	ArrayList<Trade>	
searchPendingTradeRequestsByUser(TradingUser)	ArrayList<Trade>	
searchPendingTrade(int)	Trade	
searchTrades(int)	Trade	
beforeTrade(TradingUser, TradingUser)	Boolean	
confirmTrade(UserManager, TradingUser, Trade, ItemManager, TradingUser, TradingUser)	void	
afterTrade(UserManager, Trade, ItemManager, TradingUser, TradingUser)	void	
afterReportTrade(UserManager, Trade, TradingUser, TradingUser)	void	
checkPendingTrades(UserManager, ItemManager)	void	
checkPendingTradeRequests(UserManager, ItemManager)	void	
removePendingTradeRequests(ArrayList<Trade>)	void	
removePendingTrades(ArrayList<Trade>)	void	
setBorrowLendThreshold(int)	void	
getBorrowLendThreshold()	int	
setCompleteThreshold(int)	void	
getCompleteThreshold()	int	

UserManager		
serialVersionUID	long	
listUsers	ArrayList<User>	
incompleteThreshold	int	
strategy	UserValidateLoginStrategy	
onStartup()	void	
validateLogin(String, String)	boolean	
isTradingUser(String)	boolean	
getListUsers()	ArrayList<User>	
addNewLogin(String, String, boolean, MetroArea)	boolean	
createTradingUser(String, String, MetroArea)	TradingUser	
createBrowsingUser(String, String, MetroArea)	BrowsingUser	
addToWishlist(String, String)	boolean	
removeFromWishList(TradingUser, String)	void	
reExchangeItems()	void	
checkIfUserContain(TradingUser, String)	boolean	
searchUser(String)	User	
messageUser(String, String, String)	void	
getIncompleteThreshold()	int	
setIncompleteThreshold(int)	void	
increaseUserIncompleteTrades(TradingUser)	void	
getUserIncompleteTrades(TradingUser)	int	
setUserMetro(String, MetroArea)	void	
searchUsersByMetro(MetroArea)	ArrayList<User>	
getUsersMetro(User)	MetroArea	

TradeHistories		
currentTemporaryTrades	ArrayList<TemporaryTrade>	
completedTrades	ArrayList<Trade>	
deadTrades	ArrayList<Trade>	
addCurrentTemporaryTrade(TemporaryTrade)	void	
addCompletedTrade(Trade)	void	
getOrderedTrades(String)	ArrayList<Trade>	
addDeadTrade(Trade)	void	
getDeadTrades()	ArrayList<Trade>	
searchDeadTrades(int)	Trade	
searchCompletedTrades(int)	Trade	
getCompletedTrades()	ArrayList<Trade>	
getOrderedItemsD(String)	ArrayList<Integer>	
getNRecentItems(ItemManager, String, int)	ArrayList<Item>	
getStartOfWeek()	LocalDateTime	
getNumTradesThisWeek(String)	int	
getNumTradesPerUser(String)	HashMap<String, Integer>	
getTopNTradingPartners(String, int)	ArrayList<String>	
searchTemporaryTrade(int)	TemporaryTrade	
searchActiveTempTradesByUser(TradingUser)	ArrayList<TemporaryTrade>	
searchDeadTradesByUser(TradingUser)	ArrayList<Trade>	
searchCompletedTradesByUser(TradingUser)	ArrayList<Trade>	
fetchExpiredTempTrades()	ArrayList<TemporaryTrade>	
confirmReExchange(ItemManager, TradingUser, TemporaryTrade)	void	

AdminUser		
adminLogins	ArrayList<AdminLogin>	
adminMessages	ArrayList<String>	
strategy	AdminValidateLoginStrategy	
validateLogin(String, String)	boolean	
isValidUsername(String)	boolean	
addNewLogin(String, String)	boolean	
addAdminMessage(String)	void	
getAdminMessages()	ArrayList<String>	
changeIncompleteThreshold(UserManager, int)	void	
changeCompleteThreshold(TradeCreator, int)	void	
onStartup()	void	
freezeUser(TradingUser)	void	
unfreezeAccount(TradingUser)	void	
changeBorrowLendThreshold(TradeCreator, int)	void	
unsendTradeRequest(int, TradeCreator)	void	
cancelTradeRequest(int, TradeCreator)	void	
undoTrade(int, TradeHistories, ItemManager, UserManager)	void	

ItemManager		
items	ArrayList<Item>	
validationRequestIDGenerator	int	
validationRequests	ArrayList<ItemValidationRequest>	
itemIdGenerator	int	
createItem(String, int, String, String)	void	
createItemValidationRequest(String, String, String)	void	
approveValidationRequest(ItemValidationRequest)	void	
getValidationRequests()	ArrayList<ItemValidationRequest>	
getAvailableItems(String)	ArrayList<Item>	
searchItem(int)	Item	
exchangeItems(Trade, TradingUser, TradingUser)	void	
undoExchangeItems(Trade, TradingUser, TradingUser)	void	
reExchangeItems(TemporaryTrade)	void	
removeFromInventory(int)	void	
checkIfUserHas(TradingUser, int)	boolean	



Trade

tradeID

int

username1

String

username2

String

user1AcceptedRequest

boolean

user2AcceptedRequest

boolean

user1TradeConfirmed

boolean

user2TradeConfirmed

boolean

usersAlertedToPastDue

boolean

user1NumRequests

int

user2NumRequests

int

timeOfTrade

LocalDateTime

meetingPlace

String

itemIDsSentToUser1

ArrayList<Integer>

itemIDsSentToUser2

ArrayList<Integer>

isTradeCompleted()

boolean

isTradeRequestAccepted()

boolean

getUsername1()

String

getUsername2()

String

setUser1AcceptedRequest(boolean)

void

setUser2AcceptedRequest(boolean)

void

setUser1TradeConfirmed(boolean)

void

setUser2TradeConfirmed(boolean)

void

incrementUser1NumRequests()

void

incrementUser2NumRequests()

void

getItemIDsSentToUser1()

ArrayList<Integer>

getItemIDsSentToUser2()

ArrayList<Integer>

getTimeOfTrade()

LocalDateTime

setTimeOfTrade(LocalDateTime)

void

getMeetingPlace()

String

setMeetingPlace(String)

void

setUser1NumRequests(int)

void

setUser2NumRequests(int)

void

getUser1NumRequests()

int

getUser2NumRequests()

int

getTradeID()

int

getUsersAlertedToPastDue()

boolean

setUsersAlertedToPastDue(boolean)

void

getUser1AcceptedRequest()

boolean

getUser2AcceptedRequest()

boolean

getUser1TradeConfirmed()

boolean

getUser2TradeConfirmed()

boolean

TemporaryTrade

tradeUntil

LocalDateTime

user1ItemReturnRequestAccepted

boolean

user2ItemReturnRequestAccepted

boolean

getDueDate()

LocalDateTime

setDueDate(LocalDateTime)

void

getUser1ItemReturnRequestAccepted()

boolean

getUser2ItemReturnRequestAccepted()

boolean

setUser1ItemReturnRequestAccepted(boolean)

void

setUser2ItemReturnRequestAccepted(boolean)

void

ItemValidationRequest

ID

int

itemName

String

itemDescription

String

usernameOfCreator

String

getItemName()

String

getItemDescription()

String

getUsernameOfCreator()

String

getID()

int

MetroArea

TORONTO

VANCOUVER

OTTAWA

MONTREAL

values()

MetroArea[]

valueOf(String)

MetroArea

User

username

String

password

String

metro

MetroArea

messages

ArrayList<String>

getUsername()

String

getMetro()

MetroArea

setMetro(MetroArea)

void

setPassword(String)

void

getPassword()

String

checkPassword(String)

boolean

addMessage(String)

void

getMessages()

ArrayList<String>

BrowsingUser

username

String

password

String

metro

MetroArea

checkPassword(String)

boolean

getUsername()

String

getPassword()

String

getMetro()

MetroArea

setMetro(MetroArea)

void

setPassword(String)

void

addMessage(String)

void

getMessages()

ArrayList<String>

TradingUser

username

String

password

String

numLent

int

numBorrowed

int

numIncompleteTrades

int

frozen

boolean

active

boolean

wishlistItemNames

ArrayList<String>

messages

ArrayList<String>

metro

MetroArea

getUsername()

String

setActive(boolean)

void

isActive()

boolean

getNumBorrowed()

int

getNumIncompleteTrades()

int

getNumLent()

int

increaseNumBorrowed(int)

void

increaseNumLent(int)

void

increaseNumIncompleteTrades(int)

void

setPassword(String)

void

getPassword()

String

checkPassword(String)

boolean

getWishlistItemNames()

ArrayList<String>

addItemToWishList(String)

boolean

removeItemFromWishList(String)

void

containItemInWishlist(String)

boolean

addMessage(String)

void

getMessages()

ArrayList<String>

getFrozen()

boolean

setFrozen(boolean)

void

setMetro(MetroArea)

void

getMetro()

MetroArea

AdminLogin

username

String

password

String

getUsername()

String

getPassword()

String

Frame

MAINMENU

CREATEUSERACCOUNT

LOGIN

TRADINGUSERACTIONSMENU

ADMINACTIONSMENU

BROWSINGUSERACTIONSMENU

VIEWALLOTHERUSERSMENU

VIEWUSERMENU

TRADETOSTRING

VIEWPENDINGTRADESMENU

VIEWUSERSTATSMENU

VIEWITEMSANDWISHLISTMENU

SETACTIVESTATUSMENU

CREATEITEMVALIDATIONREQUESTMENU

SETACTIVECITYMENU

SENDTRADERREQUESTMENU

VIEWITEMVALIDATIONREQUESTS

SENDMESSAGEMENU

THRESHOLDSMENU

ADDNEWADMIN

ADMINVIEWTRADE

ADMINVIEWUSER

EDITTRADE

ADMINFREEZE

ACCEPTTRADEMENU

CONFIRMTRADEMENU

SUGGESTTRADE

CONFIRMREEXCHANGEMENU

ADDDITEMTOWISHLISTMENU

VIEWCURRENTTHRESHOLDS

ITEMVIEWER

REMOVEFROMINVENTORY

values()

Frame[]

valueOf(String)

Frame

Item

name

String

description

String

id

int

owner

String

inPossessionOf

String

setDescription(String)

void

getName()

String

getDescription()

String

getId()

int

getInPossessionOf()

String

getOwner()

String

setInPossessionOf(String)

void

setOwner(String)

void