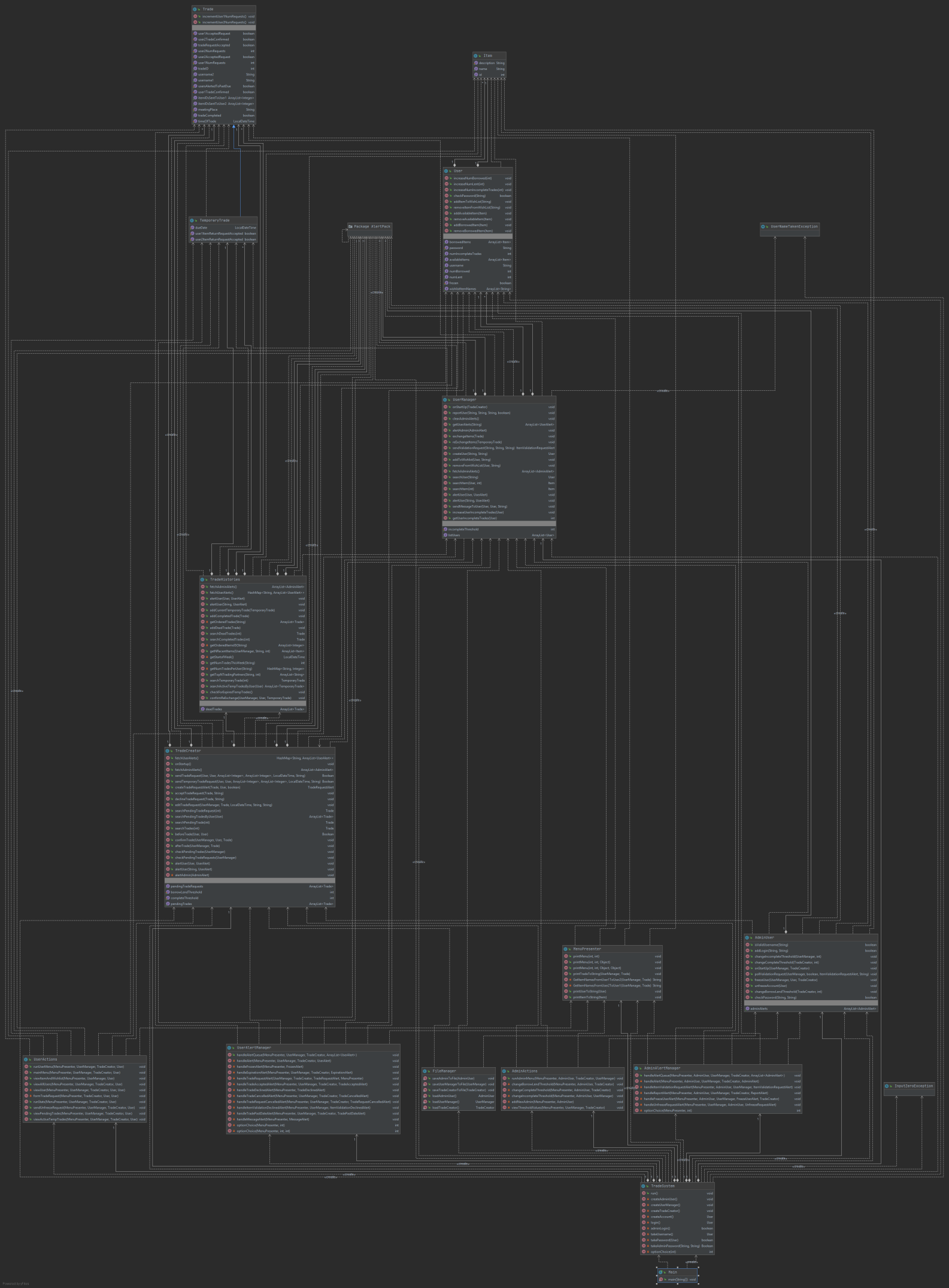
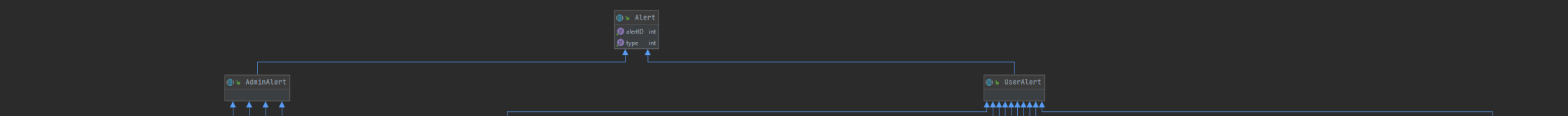

Trade
incrementUserNumRequests() void
incrementUserNumRequests() void
user1AcceptedRequest boolean
user2TradeConfirmed boolean
tradeRequestAccepted boolean
user1NumRequests int
user2AcceptedRequest boolean
user1NumRequests int
trade0 int
username2 String
username1 String
usersAlertedToPastDue boolean
user1TradeConfirmed boolean
itemIDsSentToUser1 ArrayList<Integer>
itemIDsSentToUser2 ArrayList<Integer>
meetingPlace String
tradeCompleted boolean
timeOfTrade LocalDateTime
Item
description String
name String
id int
User
increaseNumBorrowed(int) void
increaseNumLent(int) void
incrementNumIncompleteTrades(int) void
checkPassword(String) boolean
addItemToWishList(String) void
removeItemFromWishList(String) void
addAvailableItem(Item) void
removeAvailableItem(Item) void
addBorrowedItem(Item) void
removeBorrowedItem(Item) void
borrowedItems ArrayList<Item>
password String
numIncompleteTrades int
available Items ArrayList<Item>
username String
numBorrowed int
numLent int
frozen boolean
wishlistItemNames ArrayList<String>
TemporaryTrade
dueDate LocalDateTime
user1ItemReturnRequestAccepted boolean
user2ItemReturnRequestAccepted boolean
Package AlertPack
UserNameTakenException
UserManager
onStartup(TradeCreator) void
reportUser(String, String, String, boolean) void
checkAdminAlerts() void
getUserAlerts(String) ArrayList<UserAlert>
alertAdmin(AdminAlert) void
exchangeItems(Trade) void
isExchangeItems(TemporaryTrade) void
sendValidationRequest(String, String, String) ItemValidationRequestAlert
createUser(String, String) User
addToWishlist(User, String) void
removeFromWishList(User, String) void
fetchAdminAlerts() ArrayList<AdminAlert>
searchUser(String) User
searchItem(User, int) Item
searchItem(int) Item
alertUser(User, UserAlert) void
alertUser(String, UserAlert) void
sendMessageToUser(User, User, String) void
increaseUserIncompleteTrades(User) void
getUserIncompleteTrades(User) int
incompleteThreshold int
bidUsers ArrayList<User>
TradeHistories
fetchAdminAlerts() ArrayList<AdminAlert>
fetchUserAlerts() HashMap<String, ArrayList<UserAlert>>
alertUser(User, UserAlert) void
alertUser(String, UserAlert) void
addCurrentTemporaryTrade(TemporaryTrade) void
addCompletedTrade(Trade) void
getOrderedTrades(String) ArrayList<Trade>
addDeadTrades(Trade) void
searchOpenTrades(int) Trade
searchCompletedTrades(int) Trade
getOrderedItemsOf(String) ArrayList<Integer>
getRecentItems(UserManager, String, int) ArrayList<Item>
getXeteOfWeek() LocalDateTime
getNumTradesThisWeek(String) int
getNumTradesPerUser(String) HashMap<String, Integer>
getTopNTradingPartners(String, int) ArrayList<String>
searchTemporaryTrades(int) TemporaryTrade
searchActiveTempTradesByUser(User) ArrayList<TemporaryTrade>
checkForExpiredTempTrades() void
confirmMeExchange(UserManager, User, TemporaryTrade) void
deadTrades ArrayList<Trade>
TradeCreator
fetchUserAlerts() HashMap<String, ArrayList<UserAlert>>
onStartup() void
fetchAdminAlerts() ArrayList<AdminAlert>
sendTradeRequest(User, User, ArrayList<Integer>, ArrayList<Integer>, LocalDateTime, String) Boolean
sendTemporaryTradeRequest(User, User, ArrayList<Integer>, ArrayList<Integer>, LocalDateTime, String) Boolean
createTradeRequestAlertTrade, User, boolean) TradeRequestAlert
acceptTradeRequest(Trade, String) void
declineTradeRequest(Trade, String) void
addTradeRequest(UserManager, Trade, LocalDateTime, String, String) void
searchPendingTradeRequests(int) Trade
searchPendingTradesBy(User)(User) ArrayList<Trade>
searchPendingTrade(int) Trade
searchTrade(int) Trade
beforeTrade(User, User) Boolean
confirmTrade(UserManager, User, Trade) void
afterTrade(UserManager, Trade) void
checkPendingTrades(UserManager) void
checkPendingTradeRequests(UserManager) void
alertUser(User, UserAlert) void
alertUser(String, UserAlert) void
alertAdmin(AdminAlert) void
pendingTradeRequests ArrayList<Trade>
borrowLendThreshold int
completeThreshold int
pendingTrades ArrayList<Trade>
MenuPresenter
printMenu(int, int) void
printMenu(int, int, Object) void
printMenu(int, int, Object, Object) void
printTradeToString(UserManager, Trade) void
GetItemNamesFromUserToUser(UserManager, Trade) String
GetItemNamesFromUsesToUser1(UserManager, Trade) String
printUserToString(User) void
printItemToString(Item) void
AdminUser
isValidUsernameString() boolean
addLogin(String, String) boolean
changeIncompleteThreshold(UserManager, int) void
changeCompleteThreshold(TradeCreator, int) void
onStartUp(UserManager, TradeCreator) void
goBlackvalidationRequest(UserManager, boolean, ItemValidationRequestAlert, String) void
freezeUser(UserManager, User, TradeCreator) void
unfreezeAccount(User) void
changeBorrowLendThreshold(TradeCreator, int) void
checkPassword(String, String) boolean
adminAlerts ArrayList<AdminAlert>
UserActions
runUserMenu(MenuPresenter, UserManager, TradeCreator, User) void
mainMenu(MenuPresenter, UserManager, TradeCreator, User) void
viewItemAlertWishlist(MenuPresenter, UserManager, User) void
viewUsers(MenuPresenter, UserManager, TradeCreator, User) void
viewUser(MenuPresenter, UserManager, TradeCreator, User, User) void
formTradeRequest(MenuPresenter, TradeCreator, User, User) void
runStats(MenuPresenter, UserManager, TradeCreator, User) void
sendUnfreezeRequest(MenuPresenter, UserManager, TradeCreator, User) void
viewPendingTrades(MenuPresenter, UserManager, TradeCreator, User) void
viewActiveTempTrades(MenuPresenter, UserManager, TradeCreator, User) void
UserAlertManager
handleAlertQueue(MenuPresenter, UserManager, TradeCreator, ArrayList<UserAlert>) void
handleAlert(MenuPresenter, UserManager, TradeCreator, UserAlert) void
handleFrozenAlert(MenuPresenter, FrozenAlert) void
handleExpirationAlert(MenuPresenter, UserManager, TradeCreator, ExpirationAlert) void
handleTradeRequestAlert(UserManager, TradeCreator, TradeRequestAlert, MenuPresenter) void
handleTradeAccepteAlert(MenuPresenter, UserManager, TradeCreator, TradeAccepteAlert) void
handleTradeDeclineAlert(MenuPresenter, TradeDeclineAlert) void
handleTradeCancelAlert(MenuPresenter, UserManager, TradeCreator, TradeCancelAlert) void
handleTradeRequestCancelAlert(MenuPresenter, UserManager, TradeCreator, TradeRequestCancelAlert) void
handleItemValidationDeclineAlert(MenuPresenter, UserManager, ItemValidationDeclineAlert) void
handleTradePastDueAlert(MenuPresenter, UserManager, TradeCreator, TradePastDueAlert) void
handleMessageAlert(MenuPresenter, MessageAlert) void
optionChoice(MenuPresenter, int) int
optionChoice(MenuPresenter, int, int) int
FileManager
saveAdminToFile(AdminUser) void
saveUserManagerToFile(UserManager) void
saveTradeCreatorToFile(TradeCreator) void
loadAdmin(User) AdminUser
loadUserManager() UserManager
loadTradeCreator() TradeCreator
AdminActions
runAdminMenu(MenuPresenter, AdminUser, TradeCreator, UserManager) void
changeBorrowLendThreshold(MenuPresenter, AdminUser, TradeCreator) void
changeCompleteThreshold(MenuPresenter, AdminUser, TradeCreator) void
changeIncompleteThreshold(MenuPresenter, AdminUser, UserManager) void
addNewAdmin(MenuPresenter, AdminUser) void
viewThresholdValues(MenuPresenter, UserManager, TradeCreator) void
AdminAlertManager
handleAlertQueue(MenuPresenter, AdminUser, UserManager, TradeCreator, ArrayList<AdminAlert>) void
handleAlert(MenuPresenter, AdminUser, UserManager, TradeCreator, AdminAlert) void
handleItemValidationRequestAlert(MenuPresenter, AdminUser, UserManager, ItemValidationRequestAlert) void
handleReportAlert(MenuPresenter, AdminUser, UserManager, TradeCreator, ReportAlert) void
handleFreezeUserAlert(MenuPresenter, AdminUser, UserManager, FreezeUserAlert, TradeCreator) void
handleUnfreezeRequestAlert(MenuPresenter, UserManager, AdminUser, UnfreezeRequestAlert) void
optionChoice(MenuPresenter, int) int
InputZeroException
TradeSystem
run() void
createAdminUser() void
createUserManager() void
createTradeCreator() void
createAccount() User
login() User
adminLogin() boolean
takeUsername() User
takePassword(User) boolean
takeAdminPassword(String, String) Boolean
optionChoice(int) int
Main
main(String[]) void
«create»
«right»
«left»


Alert
alertID int
type int
AdminAlert
UserAlert
ItemValidationRequestAlert
name String
description String
itemID int
owner String
UnfreezeRequestAlert
incompThreshold int
incompleteT int
lent int
thresholdRequired int
username String
borrowed int
ReportAlert
senderUserName String
reportedUserName String
isTradeComplete boolean
reportDescription String
FreezeUserAlert
lent int
thresholdRequired int
username String
borrowed int
TradeRequestAlert
senderUserName String
isTempTrade boolean
tradeID int
TradeDeclinedAlert
decliningUserName String
tradeID int
ItemValidationDeclinedAlert
name String
description String
message String
itemID int
owner String
TradePastDateAlert
username String
tradeId int
dueDate LocalDateTime
MessageAlert
senderUsename String
message String
TradeAcceptedAlert
acceptingUsename String
tradeID int
FrozenAlert
thresholdIncomplete int
numBorrowedofUser int
numLentofUser int
numIncomplete int
threshholdNumofUser int
ExpirationAlert
username String
tradeId int
dueDate LocalDateTime
TradeCancelledAlert
tradeID int
TradeRequestCancelledAlert
tradeID int
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