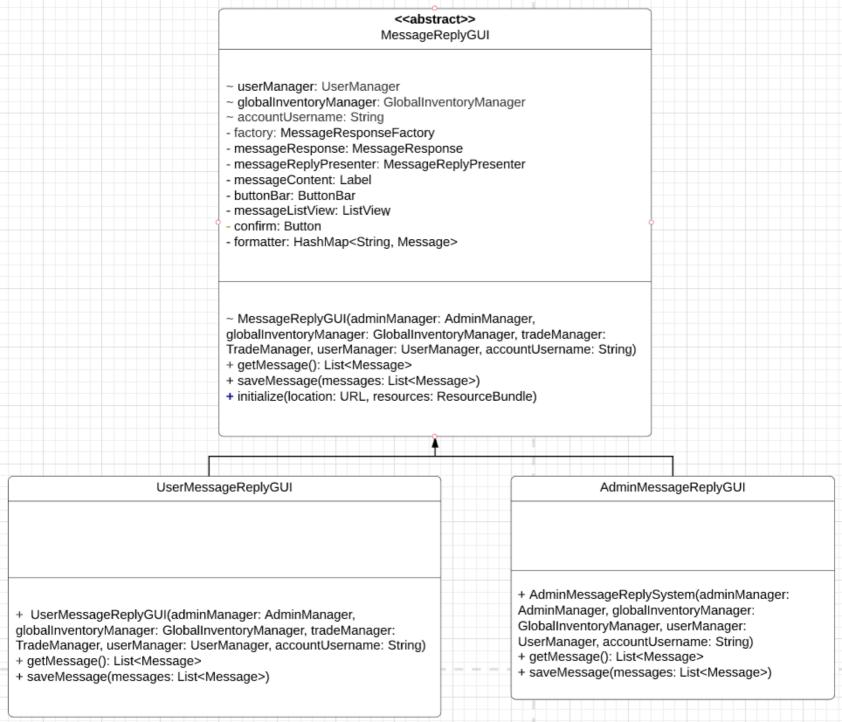
adminGUI

AdminController	AdminAccountController
-messageInboxButton: Button - manageAdminAccountButton:Button -userBrowsingButton:Button -tradeUndoButton: Button -exitButton:Button -admin: Admin; -adminGUIPresenter:AdminGUIPresenter -adminManager: AdminManager -tradeManager: TradeManager	-changePassWordButton: Button - adminCreationButton:Button -exitButton:Button -admin: Admin; -adminGUIPresenter:AdminGUIPresenter -adminManager: AdminManager -userManager: UserManager -NewPasswordFXML: String -NewAdminFXML: String
-userManager: UserManager - globalInventoryManager: GlobalInventoryManager	+AdminAccountController(admin: Admin, adminManager: AdminManager, userManager: UserManager) +initialize(location: URL, resources: ResourceBundle)
-AdminAccountFXML: String -TradeUndoFXML: String -AdminMessageGUI: String -AdminBrowsing: String	AdminNewAdminController
+AdminController(admin: Admin, adminManager:	-admin: Admin; -adminGUIPresenter:AdminGUIPresenter -adminManager: AdminManager -userManager: UserManager -resultOfCreationLabel: Label -addNewAdminButton: Button -exitButton: Button -newAdminUserNameTextField: TextField -newAdminPasswordTextField: TextField
	+AdminNewAdminController(admin: Admin, adminManager: AdminManager, userManager: UserManager) +initialize(location: URL, resources: ResourceBundle)

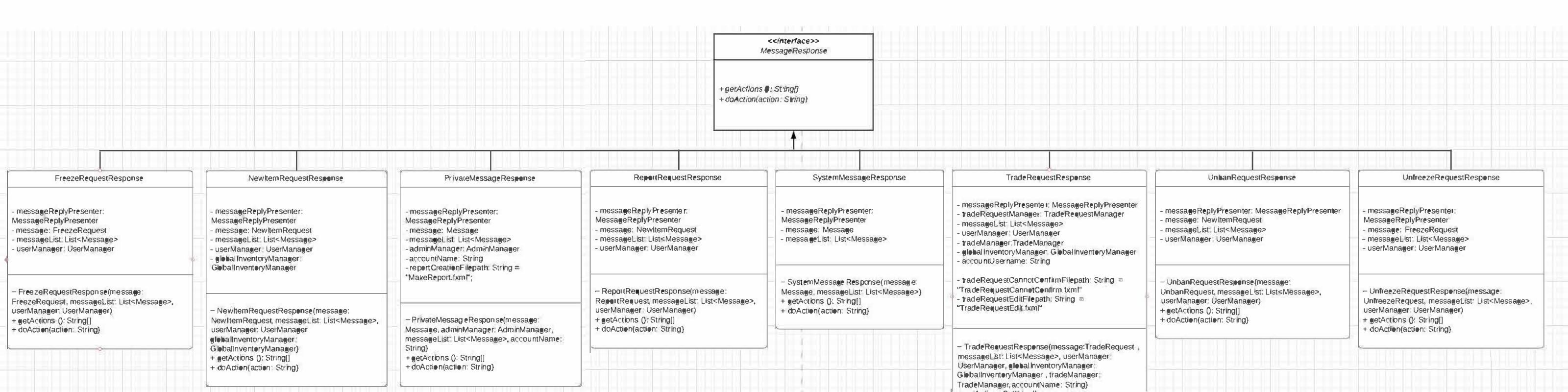
AdminBrowsingUsersController	AdminNewPasswordController
- users: UserManager - browse: AdminBrowsingUsersPresenter - globalinventory: GlobalInventoryManager - user: String - lendingLimit: boolean - weeklyLimit: boolean - incompleteLimit: boolean - allLimit: boolean	-admin: Admin; -adminGUIPresenter: AdminGUIPresenter -adminManager: AdminManager -userManager: UserManager -resultOfPasswordChangeLabel: Label -addNewPasswordButton: Button -exitButton: Button -newPasswordTextField: TextField -confirmNewPasswordField: TextField
+AdminBrowsingUsersController(system: UserManager, globalinventory: GlobalInventoryManager): void +initialize(location: URL, resources: ResourceBundle): void - search(): void - incompleteLimit(): void - weeklyLimit(): void - ban(): void - freeze(): void	+AdminNewPasswordController(admin: Admin, adminManager: AdminManager, userManager: UserManager) +initialize(location: URL, resources: ResourceBundle)
- lending(): void - undoDelete(): void	AdminGUIPresenter
- optionInput(): void - exit(): void	
AdminBrowsingUsersController	+adminBrowsingWindow():String +adminAccountWindow(): String +adminPasswordChangeWindow(): String
+ optionPrompt(): String + invalidName(): String + enterValuePrompt(): String + banStateChangeSuccess(): String + freezeStateChangeSuccess(): String + weeklyLimitChangeSuccess(): String + incompleteLimitChangeSuccess(): String + thresholdChangeSuccess(): String + wrongFormat(): String + wrongFormat(): String + deletedItemRestored(): String + enterUsername(): String + searchText(): String + banUnbanText(): String + freezeText(): String + incompleteText(): String + weeklyText(): String + lendingText(): String + enterText(): String + thresholdText(): String + exitText(): String + exitText(): String + undoText(): String	+adminAccountCreationWindow(): String +adminTradeUndoSearchWindow(): String +undoUserTradeWindow(): String +adminMessageWindow(): String +lnvalidUserNameLabel(): String +nvalidUserNameLabel(): String +passwordCannotBeEmpty(): String +newPasswordCreated(admin: Admin): String +newAdminCreated(): String +newAdminCreated(): String +AdminCreationFailed(): String +newPasswordNotSaved(): String +exitButton(): String +searchButtonText(): String +saveChangeButtonText(): String +adminCreationButtonText(): String +adminCreationButtonText(): String +adminCreationButton(): String +adminAccountButton(): String +userBrowsingButton(): String +tradeUndoButton(): String +tradeUndoButton(): String +deleteSelectedTradeButton(): String +newAdminButton(): String



messagereplyGUI



N-lap-a-sour	M
MakeReportGUI	MessageReplyPresenter
- title: Label - messageContent: Label - button1: Button - button2: Button - userInput: TextField - messageReplyPresenter: MessageReplyPresenter - message: Message - adminManager: AdminManager; - accountName: String	+MessageReplyPresenter() +printNoMessages() String +messageString(m: Message): String +messageStringSideBar(m: Message, index: int) +systemMessageAction(): String[] +privateMessageAction(): String[] +tradeRequestWarning(): String
+ MakeReportGUI(message: Message, adminManager: AdminManager, accountName: String) + initialize(location: IJRL, resources: ResourceBundle)	+tradeRequestCancel(): String +requestAction(m: Request): String[] +exit(): String +success(): String +error(): String
TradeRequestCannotConfirmGUI	+delete(): String
- title: Label - button1: Button - button2: Button - messageContent: Label - tradeRequestManager: TradeRequestManager - messages: List <message> - userManager: UserManager - messageReplyPresenter: MessageReplyPresenter</message>	+confirm(): String +emptyString(): String +instructions(): String +reportPrompt(): String +report(): String +report(): String +report(): String +reportTitle(): String +reportReasonEmpty(): String +reportSuccess(): String +titleTradeRequestCannotConfirm(): String +tradeRequestCannotConfirmPrompt(m : TradeRequest): String +keep(): String +edit(): String
+ TradeRequestCannotConfirmGUI(tradeRequestManager: TradeRequestManager , userManager: UserManager, messages: List <message>) + initialize(location: URL, resources: ResourceBundle)</message>	+titleTradeRequestEdit(): String +datePrompt(oldDate: String): String +placePrompt(oldPlace: String): String +wrongFormat(): String +enterDateInPast(): String +noEdit(): String
TradeRequestEditGUI	
- title: Label - button1: Button - button2: Button - dateLabel: Label - placeLabel: Label - placeTextField: TextField - placeTextField: TextField - tradeRequestManager: TradeRequestManager - accountUsername: String - userManager: UserManager - messages: List <message> - messageReplyPresenter: MessageReplyPresenter</message>	
+ TradeRequestEditGUI(tradeRequestManager: TradeRequestManager , userManager: UserManager, messages: List <message>, accountUsername: String) + initialize(location: URL, resources: ResourceBundle)</message>	

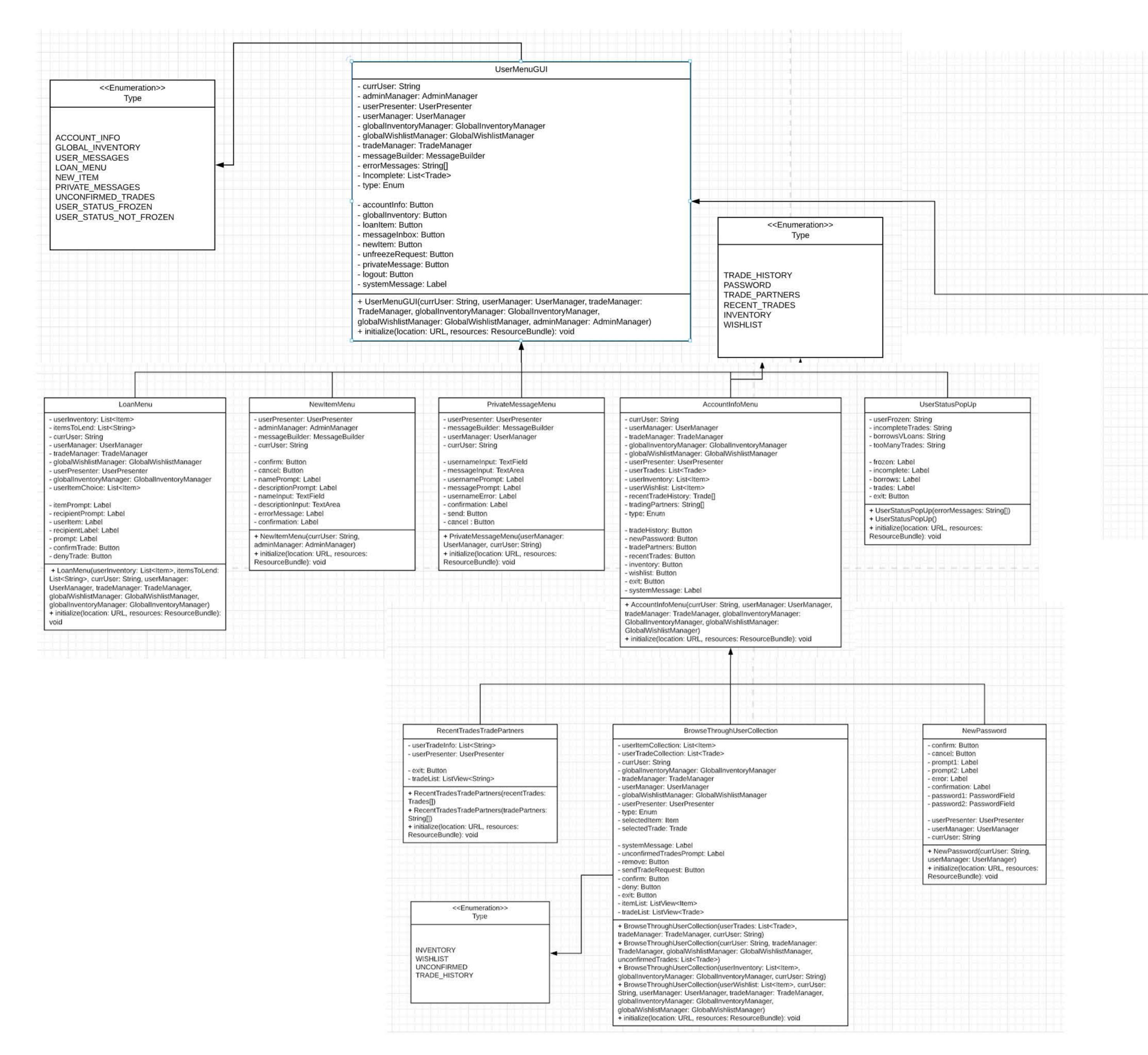


mainMenuGUI

StartScreen	GateWayBuilder
- mainMenuPresenter MainMenuPresenter - mainMenuFXMLFile String	Lact Admin Account Cotours vo (filanothy Ctring)
+ start(primaryStage: Stage): void + main(args: String[]): void	+ getAdminAccountGateways(filepath: String): AdminAccountGateways + getAdminMessageGateways(filepath: String):
+ getAdminManager AdminManager(adminList: Map <string, admin="">, messageList: List<message>): AdminManager + getTradeManager TradeManager(tradeList: Map<string,< td=""><td>AdminMessageGateway + getUserGateway(filepath: String): UserGateway + getUserTradesGateway(filepath: String): UserTradesGateway + getGlobalWishlistGateway(filepath: String):</td></string,<></message></string,>	AdminMessageGateway + getUserGateway(filepath: String): UserGateway + getUserTradesGateway(filepath: String): UserTradesGateway + getGlobalWishlistGateway(filepath: String):
	GlobalWishlistGateway + getGlobalInventoryGateways(filepath: String): GlobalInventoryGateways
List <trade>>): TradeManager + getGlobalInventoryManager GlobalInventoryManager(globalInventory: GlobalInventory):</trade>	MainMenuPresenter
GlobalInventoryManager + getGlobalWishlistManager(globalWishlist: GlobalWishList): GlobalWishlistManager + getDemoUserManager(username: String, password: String): DemoUserManager	+ printExit(): void + corruptedData(): return String + userLoginOption(): return String + userSignUpOption(): return String + adminLoginOption(): return String
< <enumeration>> SelectedOption</enumeration>	+ demoLoginOption(): return String
USER_LOGIN USER_SIGNUP ADMIN_LOGIN DEMO_LOGIN	+ exitOption(): return String + savingError(): return String + failedLogin(): return String + login(): return String + returnToMainMenu(): return String
	+ signUp(): return String + stringReset(): return String + takenOrInvalidUsername(): return String + successfulAccountCreation(): return String + wrongLogin(): return String + programName(): return String

	MainMenuController	LoginController
- userLoginButton: Button - userSignUpButton: Button - adminLoginButton: Button - demoLoginButton: Button - exitButton: Button - errorMessage: Label - adminManager: AdminManager - userManager: UserManager - tradeManager: TradeManager - globallnventoryManager: GlobalInventoryManager - globalWishListManager: GlobalWishListManager - loginFXMLFile: String - adminFilePath: String - userFilePath: String - globalInventoryFilePath: String - globalWishlistFilePath: String - globalWishlistFilePath: String - adminMessagesFilePath: String - tradeFilePath: String - tradeFilePath: String - dataFolderPath: String - adminAccountGateways: AdminAccountGateways - userGateway: UserGateway - globalInventoryGateways: GlobalInventoryGateways - adminMessageGateway: AdminMessageGateway - mainMenuPresenter: MainMenuPresenter	- username: Textfield - password: TextField - loginButton: Button - exitButton: Button - errorMessage: Label - userSelectedOption: SelectedOption - mainMenuPresenter: MainMenuPresenter - userManager: UserManager - tradeManager: TradeManager - adminManager: AdminManager - globalInventoryManager: GlobalInventoryManager - globalWishlistManager: GlobalWishlistManager - userMenuGUIFile: String - adminMenuGUIFile: String - demoMenuGUIFile: String - bannedUserMenuGUIFile: String - bannedUserMenuGUIFile: String	
	+ LoginController(selectedOption SelectedOption, userManager UserManager, tradeManager TradeManager, adminManager AdminManager, globalInventoryManager GlobalInventoryManager, globalWishlistManager GlobalWishlistManager) - changeScreenButtonPushed(actionEvent ActionEvent): void - goToOtherScene(otherScene: String, MenuToOpen: OpenMenu, username: String): void	
SelectedOp - userLogin - userSignU - adminLog - programD - closeButt + initialize() - deserializ - serialize()	ButtonPressed(): void JpButtonPressed(): void JpButtonPressed(): void JemoButtonPressed(): void	+ initialize(location: URL, resources: ResourceBundle): void - userLogin(): void - userSignUp(): void - adminLogin(): void - programDemo(): void

userGUI



UserPresenter

+ userAccountFrozen(): String

+ promptUserToConfirmTrades(): String

+ userMenuPromptAccountInfo(): String

+ userMenuPromptLoanMenu(): String

+ userMenuPromptNewItem(): String

+ userMenuPromptUnfreeze(): String

+ userMenuPromptLogout(): String

+ setNewPasswordPrompt(): String

+ wishlistPromptTradeOffer(): String

+ isEmpty(collection: String): String

+ tooManyIncompleteTrades(): String

+ tooManyTradesThisWeek(): String

+ accountInfoPromptTradeHistory(): String

+ accountInfoPromptTradingPartners(): String

+ accountInfoPromptRecentTrades(): String

+ accountInfoPromptPassword(): String

+ accountinfoPromptinventory(): String

+ newItemMessageSentToAdmin(): String

+ unconfirmedMeetingAliDone(): String

+ itemNotInOtherUsersWishlist(): String

+ userLoanPromptOfferedItemLabel(): String + userLoanPromptRecipientLabel(): String

+ userPrivateMessageConfirmation(): String

+ userMessagePromptSecundus(): String

+ newItemMenuInputErrorPrompt(): String

+ emptyPersonalInventoryWhileLoaning(): String

+ accountInfoPromptWishlist(): String

+ confirmMeetingPrompt(): String

+ denyMeetingPrompt(): String

+ unfreezeRequestSent(): String

+ emptyGlobalInventory(): String

+ userLoanPromptConfirm(): String

+ userLoanPromptCancel(): String

+ returnToMainMenu(): String

+ invalidUsername(): String

+ userMessagePrompt(): String

+ invalidMessageInput(): String

+ selectedValidObject(): String

+ ioErrorMessage(): String

+ invalidPasswordInputs(): String

+ passwordConfirmation(): String

+ noRecentTrades(): String

+ userNotFrozen(): String

+ userLoanPrompt(): String

+ noTradingPartners(): String

+ menuPromptRemove(): String

+ menuPromptExit(): String

+ itemRemoved(): String

+ userMenuPromptGlobalInventory(): String

+ userMenuPromptMessageMenu(): String

+ userMenuPromptPrivateMessage(): String

+ createNewItemPrompt(select: int): String

+ setNewPasswordPromptSecundus(): String

+ tooManyBorrowsVLoans(difference: int): String

globalInventoryGUI

GolbalinventoryMenuController	
- TableView: TableView - itemName: TableColumn - ItemDescription: TableColumn - addToWishlist: Button - trade: Button - exit: Button - message: Label - globalInventoryManager: GlobalInventoryManager - globalInventoryPresenter: GlobalInventoryPresenter - userManager: UserManager - user: String - tradeManager: TradeManager - globalWishlistManager: globalWishlistManager - MultiltemMenuFXML: "MultiltemMenu.fxml"	MultiltemMenu - globalInventoryMenuPresenter: GlobalInventoryMenuPresenter - user: String - globalInventoryManager: GlobalInventoryManager - globalWishlistManager: GlobalWishlistManager - userManager: UserManager - item: Item - selectedItems: ObservableList <item> - userItems: ObservableList<item> - tradeMenuFXML:"/frontend/tradeGUI/TradeMenu.fxml"</item></item>
+ GlobalInventoryMenuController(user: String, globalInventoryManager: GlobalInventoryManager, userManager: UserManager, tradeManager: TradeManager, globalWishlistManager: globalWishlistManager) + initialize(location: URL, resources: ResourceBundle): void	+ MultiltemMenu(item:Item, user: String, globalInventoryManager: GlobalInventoryManager, userManager: UserManager, globalWishlistManager: GlobalWishlistManager) + initialize(location: URL, resources: ResourceBundle): void
GlobalInventoryMenuPresenter	
+ itemName(): String + itemOwner(): String + itemDescription(): String + addToWishlist(): String + noltemSelected(): String + noltemSelected(): String + addedToWishlist(item: Item): String + whatToDo(item: Item): String + whatToDo(item: Item): String + menuPrompExit(): String + menuPrompExit(): String + FrozenAcc(): String + ownItem():String + alreadHave(): String + error(): String + itemSelected(): String + itemSelected(): String + itemSelected(item: Item): String + select(): String + select(): String + remove(): String + remove(): String + trade(): String + frozenAcc(): String + name(): String + description(): String + ownerName(): String	

tradeGUI

TradeMenuMainController	TradeMenu
- globalInventoryManager: GlobalInventoryManager - allUsers: UserManager - userA: String - itemsToTradeB: List <item> - itemsToTradeA: List<item> - globalWishlistManager: GlobalWishlistManager - userB: String - titleScreen: Label - timeOTTrade: TextField - meetTrade: TextField - meetTrade: MenuButton - temporary: MenuItem - permanent: MenuItem - oneOrTwoWayTrade: MenuButton - oneWayTrade: MenuItem - twoWayTrade: MenuItem - submit: Button - returnToMainMenu: Button - primaryDate: DatePicker - filepath: String = "MultiTradeItemMenu.fxml"</item></item>	+TRADE; String = "Trade" +TRADELEND; String = "Trade lending" +TRADETYPE; String = "What type of trade?" +TEMP: String = "Temporary" +PERM: String = "Permanent" +ONETWOWAY; String = "Is it a one way or two way trade?" +ONEWAY; String = "Two way trade" +TWOWAY; String = "Two way trade" +SUBMIT; String = "Submit" +SUCCESS; String = "Success" +EXIT; String = "Exit the program" +WRONGFORMAT; String = "Wrong format" +ERROR; String = "You didn't complete the trade! Check if you're missing anything." +NOITEMS; String = "Looks like you don't have any items to give to the other user, try again after adding items!" +SUGGEST; String = "Here are a list of items that you should lend in the trade: " +PASTDATE; String = "Entered a date in the past" +INVENTORY PROMPT: String = "Please select from your items the items you want to trade" +SELECT ITEM; String = "Items selected"
+ TradeMenuMainController(globalInventoryManager: GlobalInventoryManager, globalWishlistManager: GlobalWishlistManager, allUsers: UserManager, itemsToTradeB: List <item>, userA: String) + initialize(location: URL, resources: ResourceBundle)</item>	+ inventoryPrompt(username: String): String + itemSelected(itemName: String): String MultiTradeItemMenu
TradeMenuMainLendController	- globalInventoryMenuPresenter: GlobalInventoryMenuPresenter
- allUsers: UserManager - userA: String - itemsToTradeB: List <item> - itemsToTradeA: List<item> - userB: String - titleScreen: Label - timeOfTrade: TextField - meetTrade: TextField - typesOfTrade: MenuButton - temporary: MenuItem - permanent: MenuItem - submit: Button - returnToMainMenu: Button - primaryDate: DatePicker</item></item>	- user: String - globalInventoryManager: GlobalInventoryManager - selectedItems: ObservableList <item> - userItems: ObservableList<item> - userItem: TableView<item> - itemName: TableColumn<item, string=""> - itemOwner: TableColumn<item, string=""> - itemDescription: TableColumn<item, string=""> - tradingitemName: TableColumn<item, string=""> - tradingitemOwner: TableColumn<item, string=""> - tradingitemOwner: TableColumn<item, string=""> - tradingitemDescription: TableColumn<item, string=""> - tradingItem: TableView<item> - select: Button - remove: Button - trade: Button - trade: Button - title: Label - message: Label - userItemLabel: Label</item></item,></item,></item,></item,></item,></item,></item,></item></item></item>
+ TradeMenuMainLendController(allUsers: UserManager, itemsToTradeA: List <item>, userA: String, userB: String) + initialize(location: URL, resources: ResourceBundle): void</item>	- tradingItemLabel: Label - exit: Button + MultiItemMenu(user: String, globalInventoryManager: GlobalInventoryManager) + initialize(location: URL, resources: ResourceBundle): void + getItems(): List <item></item>