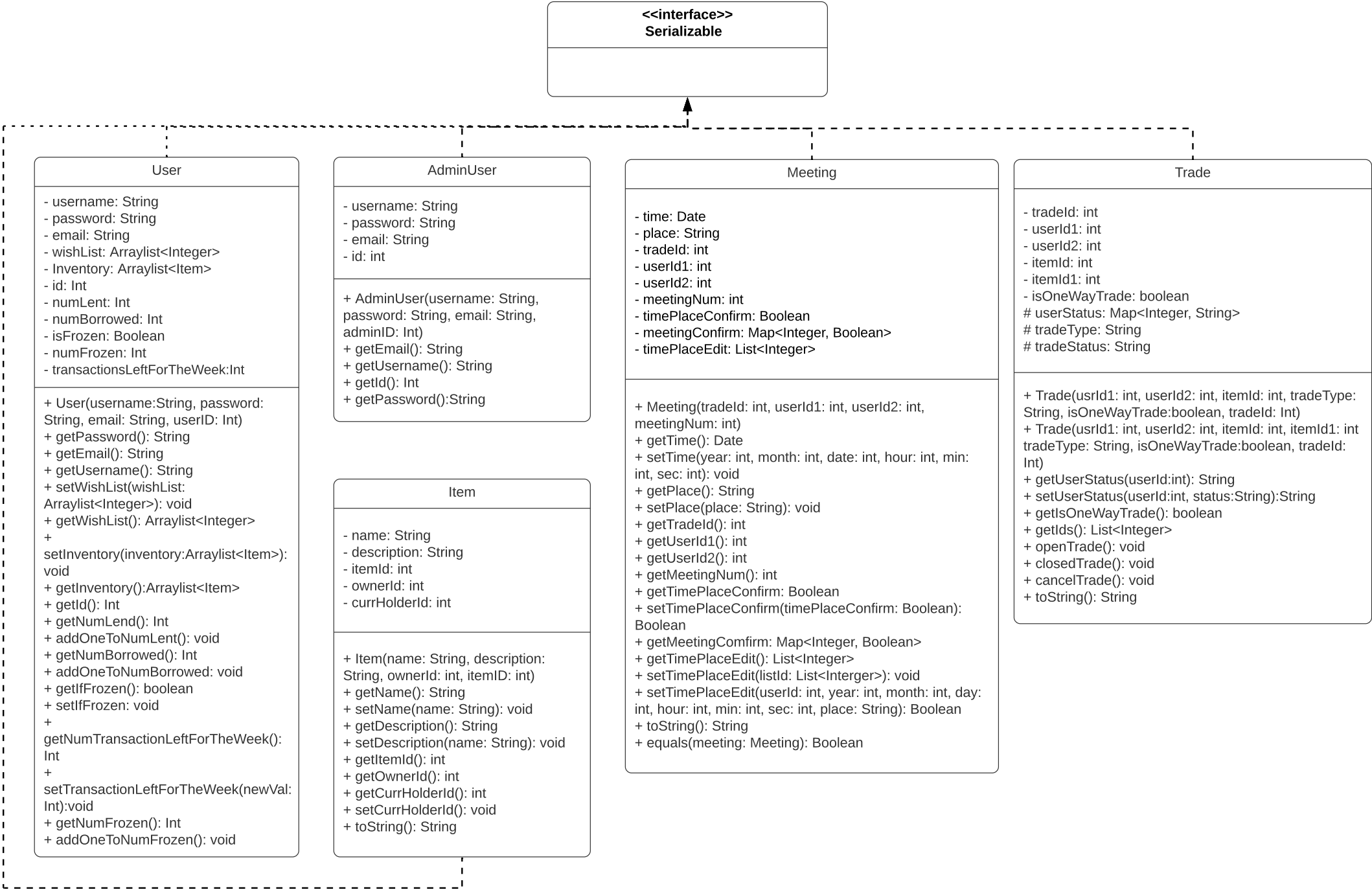
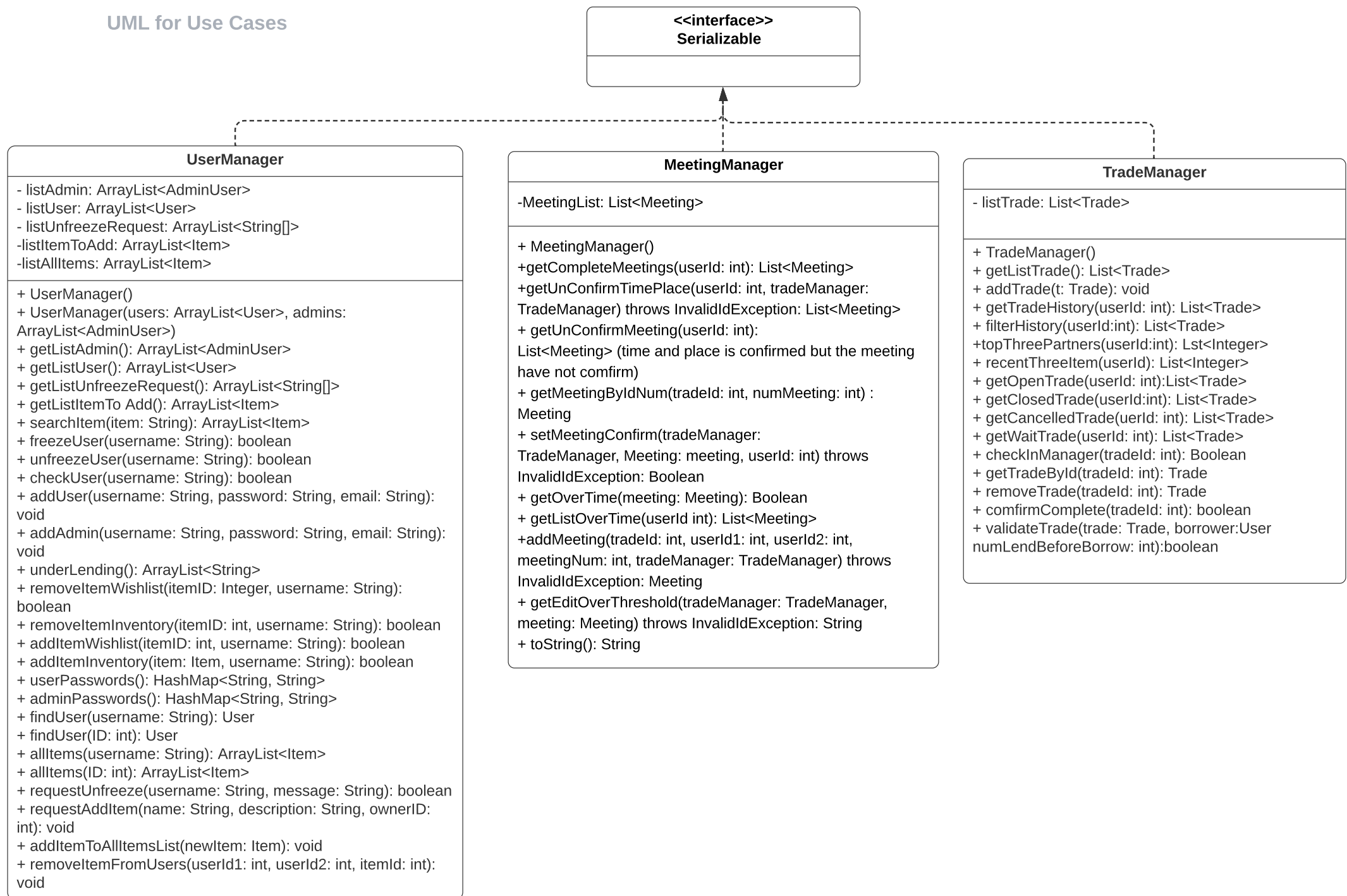


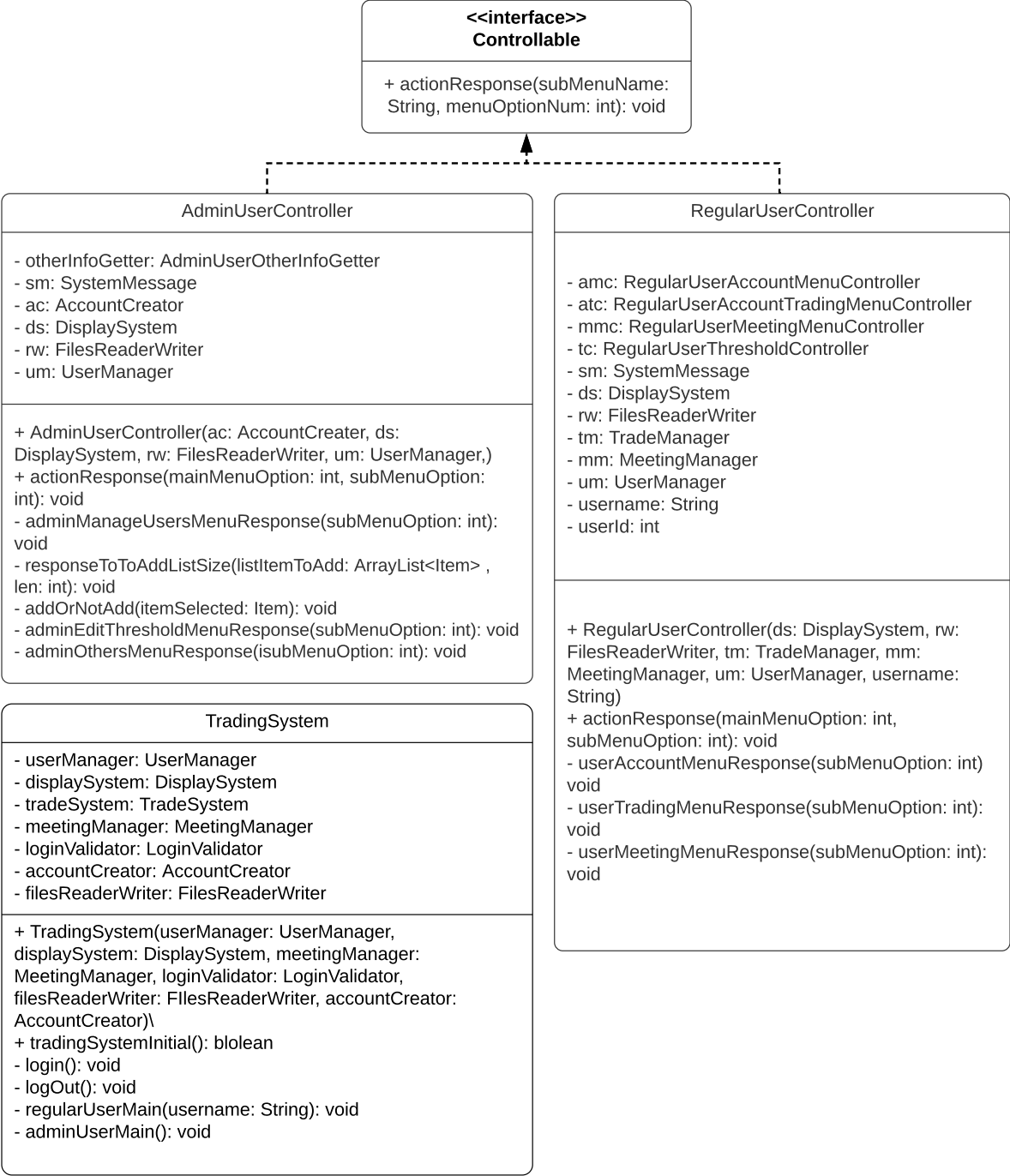
UML for Entities



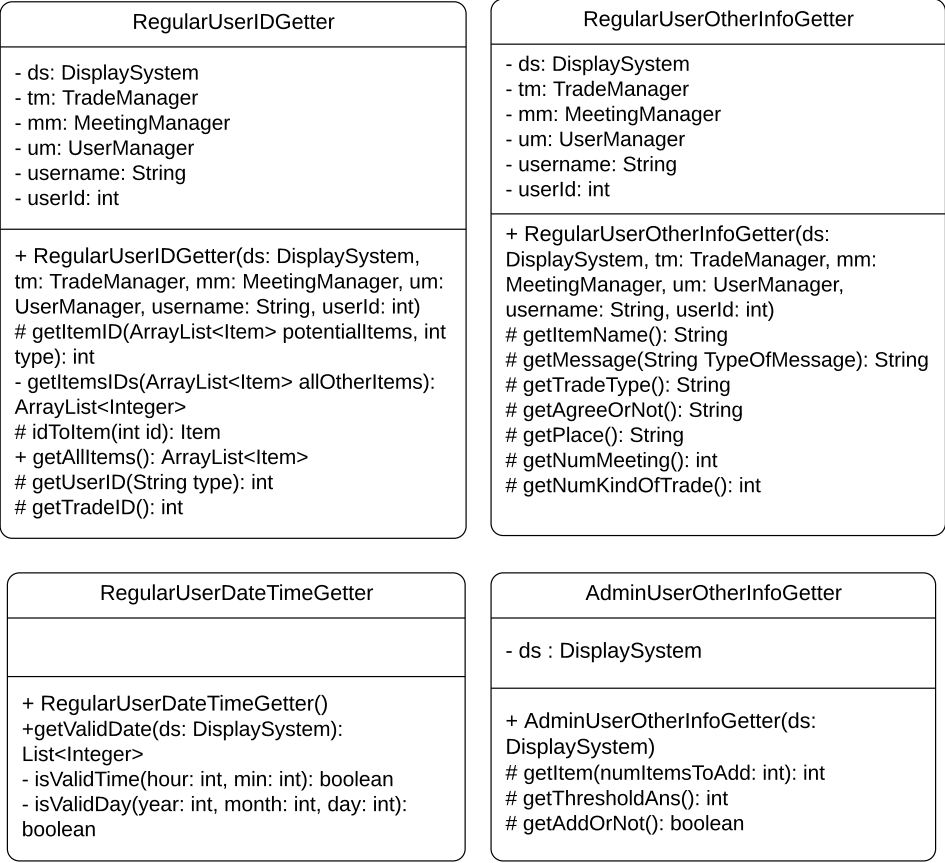
UML for Use Cases



UML for Main Controller Classes



UML for Controllers' Getter Classes



UML for RegularUserController's Sub-controller Classes

RegularUserTradingMenuController
<ul style="list-style-type: none">- tc: RegularUserThresholdController- otherInfoGetter: RegularUserOtherInfoGetter- idGetter: RegularUserIDGetter- sm: SystemMessage- ds: DisplaySystem- tm: TradeManager- mm: MeetingManager- um: UserManager- username: String- userId: int
<ul style="list-style-type: none">+ RegularUserTradingMenuController(ds: DisplaySystem,tm: TradeManager, mm: MeetingManager, um: UserManager, username: String, userId: int)# seeTopThreePartners(): void# confirmTradeComplete(): void# viewOpenTrades(openTrade: List<Trade>): void# respondToTradeRequests(thisUser: User): void- tradeRequestsToRespond(): List<Trade>- respondResult(tradeID: int, trade: Trade, itemid22: int, userId11: int, userId22: int, itemid11: int): void- respondAgree(tradeID: int, trade: Trade, itemid22: int, userId11: int, userId22: int, itemid11: int): void# requestTrade(thisUser: User): void- determineTradeID(): int- getValidationForItems(numKindOfTrade: int, itemid2: int, userId1: int, userId2: int, itemid: int): boolean- getTrade(numKindOfTrade: int, itemid2: int, userId1: int, userId2: int, itemid: int, tradeID: int, tradeType: String): Trade- requestResult(thisUser: User, ok: boolean, trade: Trade, userId1: int): void- requestFail(thisUser: User): void- requestSuccess(thisUser: User, trade: Trade): void- validateItems(borrower: int, lender: int, itemid: int): boolean- validateItems(borrower1Lender2: int, borrower2lender1: int, itemid1: int, itemid2: int): boolean

RegularUserMeetingMenuController
<ul style="list-style-type: none">- sm: SystemMessage- idGetter: RegularUserIDGetter- dateTimeGetter: RegularUserDateTimeGetter- otherInfoGetter: RegularUserOtherInfoGetter- ds: DisplaySystem- tm: TradeManager- mm: MeetingManager- um: UserManager- username: String- userId: int
<ul style="list-style-type: none">+ RegularUserMeetingMenuController(ds: DisplaySystem, tm: TradeManager, mm: MeetingManager, um: UserManager, username: String, userId: int)# seeMeetings(meetings: List<Meeting>, type: String): void# confirmMeetingTookPlace(): void# confirmMeetingTandP(): void# EditMeetingTandP(): void# unconfirmedTandPMeetings(): void- getMeeting(): Meeting

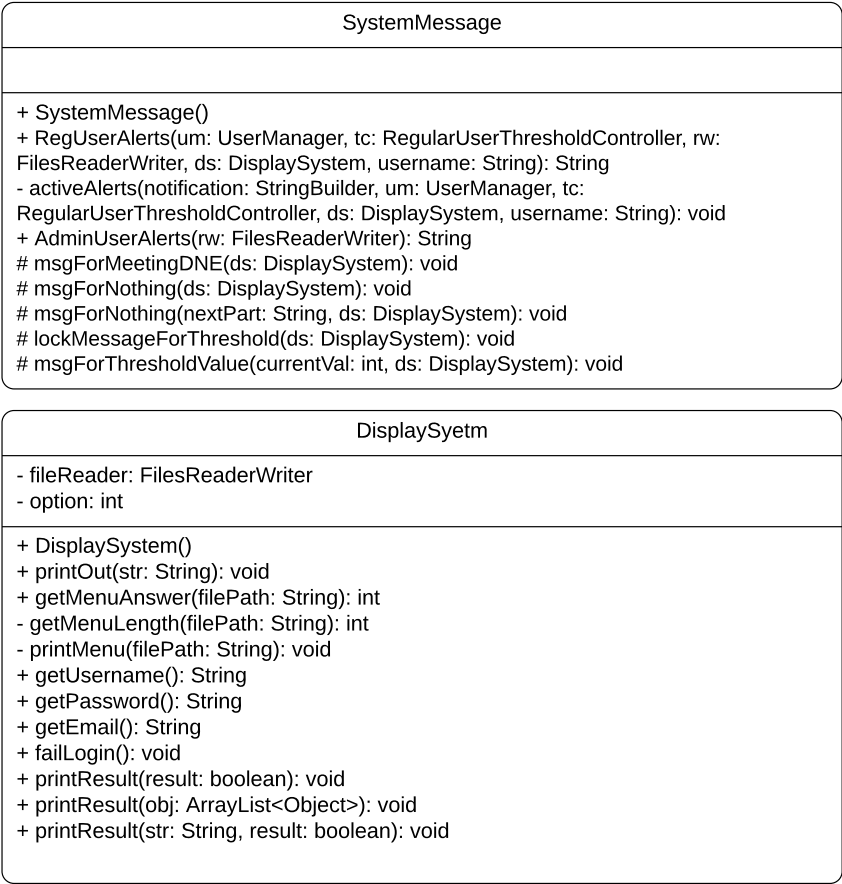
RegularUserThresholdController
<ul style="list-style-type: none">- ds: DisplaySystem- tm: TradeManager- mm: MeetingManager- um: UserManager- username: String- userId: int- thresholdReassessed: boolean
<ul style="list-style-type: none">+ public RegularUserThresholdController(ds: DisplaySystem,tm: TradeManager, mm: MeetingManager, um: UserManager, username: String, userId: int)# reassessNumTransactionsLeftForTheWeek(thisUser: User): void# changeNumTradesLeftForTheWeek(thisUser: User): void# isFirstDayOfTheWeek(): boolean# freezeUserOrNot(User thisUser): boolean- numUncompletedTransactions(): int

RegularUserAccountMenuController
<ul style="list-style-type: none">- sm: SystemMessage- idGetter: RegularUserIDGetter- otherInfoGetter: RegularUserOtherInfoGetter- ds: DisplaySystem- tm: TradeManager- mm: MeetingManager- um: UserManager- username: String- userId: int
<ul style="list-style-type: none">+ RegularUserAccountMenuController(ds: DisplaySystem, tm: TradeManager, mm: MeetingManager, um: UserManager, username: String, userId: int)# viewWishListInventory(): void# addToWishList(allOtherItems: ArrayList<Item>): void# requestAddItem(): void# RequestToUnfreeze(): void# seeMostRecentThreeItems(): void# removeFromInventory(): void# removeFromWishList(allOtherItems: ArrayList<Item>): void# searchItem(): void# browseBooks(allOtherItems: ArrayList<Item>): void

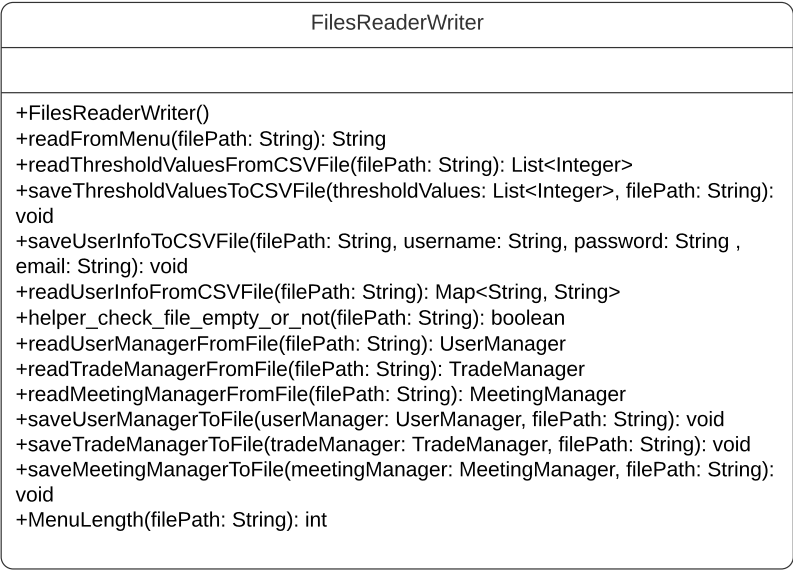
AccountCreator
<ul style="list-style-type: none">- um: UserManager- ds: DisplaySystem- fr: FileReaderWriter
<ul style="list-style-type: none">+ AccountCreator(um: UserManager, ds: DisplaySystem, fr: FileReaderWriter)+ CreateAccount(type: String): boolean

LoginValidator
<ul style="list-style-type: none">- userLoginInfo: Map<String, String>- adminUserLoginInfo: Map<String, String>
<ul style="list-style-type: none">+ LoginValidator(userLoginInfo: Map<String, String>, adminUserLoginInfo: Map<String, String>)+ VerifyLogin(username: String, password: String): String

UML for Presenter



UML for Gateway



UML for DemoMain

