Entities

Phase 1 – Group 0041

Account

name : String
password : String

+ getPassword() : String
+ getName() : String

Admin

isInitialAdmin: Boolean

+ Admin(name : String, password : String)
+ getIsInitialAdmin() : boolean
+ setIsInitialAdmin(isInitialAdmin : boolean) : void

User

-wishlist: ArrayList<Item>
-inventory: ArrayList<Item>
-draftInventory : ArrayList<Item>
-ItemHistory : HashMap<Item,String>
-isFrozen :Boolean
-eligibility : int
-tradeHistory: List<Transaction>
-topTradingPartners:List<User>
-pendingRequests: List<TradeRequest>
- pendingTrades: List<Transactions>
- isPseudoFrozen: Boolean
-cancelledTransactions: List<Transaction>
- agreedUponMeeting: List<Transaction>

+User(name: String, password:String)
- getWishlist(): List<Item>
- getInventory(): List<Item>
- getDraftInventory(): List<Item>
+ getTradeHistory(): List<Transaction
+getTopTradingPartners(): List<User>
+ getPendingRequests(): List<TradeRequests>
+ getItemHistory(): HashMap<Item, String>
- getOutboundRequests(): List<TradeRequests>
- getPendingTrades(): List<Transaction>
- getCancelledTransactions(): List<Transaction>
- getAgreedUponMeeting(): List<Transaction>
- getIsFrozen(): boolean
- getIsPseudoFrozen() : boolean
-getEligibility(): boolean
+ setTopTradingPartners(topTradingPartner:List<User>): void
+setOutboundRequest(outboundRequest: TradeRequest) : void
+ addTradeHistory(tradeHistory :Transaction) : void
+setIsPseudoFrozen(isPseudoFrozen :boolean): void
+ setIsFrozen(isFrozen: boolean) : void
+increaseEligibility():void
+decreaseEligibility():void

Transaction

- tradeStatus : int
- temp : boolean
- initialMeeting : Meeting
- returnMeeting : Meeting

+ Transaction(temp : boolean) : void
+ getTradeStatus() : int
+ setTradeStatus(tradeStatus : int) : void
+ getTemp() : boolean
+ setTemp(temp : boolean) : void
+ getInitialMeeting() : Meeting
+ setInitialMeeting(meeting : Meeting) : void
+ getReturnMeeting() : Meeting
+ setReturnMeeting(meeting : Meeting) : void

OneWay

- borrower : User
- lender : User
- item : Item

+ OneWay(borrower : User, item : Item, temp : boolean) : void
+ getBorrower() : User
+ getLender() : User
+ getLenderItem() : Item

TwoWay

- firstTrader : User
- secondTrader : User
- items : List<Item>

+ TwoWay(item1 : Item, item2 : Item, temp : boolean) : void
+ getFristTrader() : User
+ getSecondTrader() : User
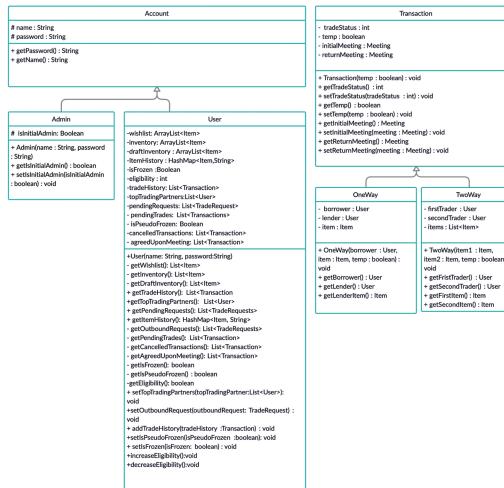+ getFirstItem() : Item
+ getSecondItem() : Item

Meeting

- date: Calendar
- place: String
- confirmed: Boolean
- edits: int
- editHistory: Hashmap<String, Integer>
- lastEdit: String
- confirm: Hashmap<String, Integer>

- Meeting(date: Calendar, place: String)
+ confirmedByBothSides(): boolean
+ initialConfirm(side1: String, side2: String): void
+ meetingConfirmed(name: String): void
+ getOtherSide(name: String): String
+ initialHistory(name: String, num: int): void
+ changeLastEdit(name: String): void
+ viewLastEdit(): String
+ changeHistory(user: User, i: int): void
+ getEditHistory(user: String): int
+ getDate(): Calendar
+ getPlace(): String
+ getConfirmed(): Boolean
+ getEdits(): int
+ setDate(date: Calendar): void
+ setPlace(place: String): void
+ setConfirmedTrue(): void
+ setEdits(edits: int): void
+ toString()

TradeRequest

- requester : User
- receiver : User
- requestType : int
- requesterItem : Item
- receiverItem : Item
- message : String
- temp : boolean
- status : int

+ TradeRequest(requestType : int, requester : User, receiver : User, itemList : List<Item>, message : String, temp : boolean) : void
+ getMessage() : String
+ getRequestType() : int
+ setRequestType(requestType : int) : void
+ getStatus() : int
+ setStatus(status : int) : void
+ getRequester() : User
+ getReceiver() : User
+ getRequesterItem() : Item
+ getReceiverItem() : Item
+ getTemp() : boolean

Item

- name: String
- owner: User
-currentHolder: User
- description: String

+ Item(name: String, owner: User, description: String)
+ getName(): String
+ setName(name: String) : void
+ getOwner(): void
+ getCurrentHolder(): User
+ setOwner(owner: User) : void
+ setCurrentHolder(holder: User): void
+ updateDescription(description: String): void
+ getDescription(): String