Visitor

+ID
+name
+email

+browseItems()
+applyForUser()
+commentOnListing()

System

+displayItems()
+verifyAntiBotQuestion()
+notify()

Item

+ID
+description
+price
+owner
+status

+updateStatus()
+removeFromListing()

Transaction

+transactionID
+amount
+buyer
+seller
+status

+executeTransaction()
+applyVIPDiscount()

VIP

+status
+transactionCount
+complaintCount

"applies to be a User"

"verifies anti-bot"

"browses and comments on items"

"displays listings"

"initiates notifications"

"updates status on sale/rent"

"participates in live VIP bidding sessions"

"interacts with the system"

"notifies changes in status or bids"

"bids and completes transactions"

"lists items for sale/rent"

"receives discount on transactions"

"applies VIP discount if applicable"

"linked to User ratings"

UML Class Diagram

[Top partial class]
- +complaintCount
- +rating
- +receiveDiscountOnTransaction()

User
- +ID
- +name
- +email
- +balance
- +status
- +rating

- +depositMoney()
- +withdrawMoney()
- +listItemForSaleOrRent()
- +placeBid()
- +acceptBid()
- +rateTransactionPartner()
- +fileComplaint()
- +applyForVIP()

Account
- +balance
- +transactionHistory

- +addBalance()
- +deductBalance()

Rating
- +ratingID
- +raterID
- +rateeID
- +score

- +calculateAverageRating()
- +evaluateSuspensionCriteria()

SuperUser
- +ID
- +name

- +approveUserApplication()
- +reactivateUser()
- +suspendUser()
- +resolveComplaint()

Relationship labels:
- "transfers funds"
- "executes payments"
- "inherits all User privileges"
- "manages account balance"
- "rates transaction partners"
- "files complaints"
- "calculates average ra[ting]"
- "approves/suspends/reactivates"
- "triggers suspension if criteria met"

+processQuitRequest()

"handles complaints from Users"

Complaint