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Design Level Diagram: BUY ITEM

UserBean
- name: String
- username: String
- lastName: String
- profilePicture: String
- address: Location

+ getName(): String
+ getLastName(): String
+ getProfilePicture(): String
+ getAddress(): Location

<< Entity >> User
- name: String
- lastName: String
- username: String
- gender: Gender (enum)
- birthDate: Date
- email: String
- password: String

+ getName(): String
+ setName(String):
+ getLastName(): String
+ setLastName(String):
+ getUsername(): String
+ setUsername(String):
+ getGender(): Gender
+ setGender(Gender):
+ getBirthDate(): Date
+ setBirthDate(Date):
+ getEmail(): String
+ setEmail(String):
+ getPassword(): String
+ setPassword(String):
+ increaseCredit(Integer):
+ decreaseCredit(Integer):

<< Entity >> UserProfile
- profilePicture: String
- coverPicture: String
- bioInfo: String
- phoneNumber: String

+ setProfilePicture(String):
+ getProfilePicture(): String
+ setCoverPicture(String):
+ getCoverPicture(): String
+ setBio(String):
+ getBio(): String
+ setPhoneNumber(String):
+ getPhoneNumber(): String
+ getAccount(Integer): Account
+ addAccount(Account):
+ deleteAccount(Integer):
+ getAddress(): Location
+ setAddress(Location):

<< Control >> BuyController

+ acceptOrder()
+ rejectOrder()
+ generateCode()
+ checkRemainingTime()
+ restoreCredit()

<<Control>> GUIControllerChat

+ acceptOrder()
+ rejectOrder()

<<View>> ChatView

OrderBean
- orderID: Integer
- orderDate: date
- orderStatus: Boolean
- code : String
- buyer: UserBean

<<Entity>> Book
- author: String
- edition: Integer
- numberOfPages: Integer
- genre: BookGenre (enum)
- publishingHouse: String

+ getAuthor(): String
+ setAuthor(String):
+ getEdition():Integer
+ setEdition(Integer):
+ getNumberOfPages(): Integer
+ setNumberOfPages(Integer):
+ getGenre(): BookGenre
+ setGenre(BookGenre):
+ getPublishingHouse(): String
+ setPublishingHouse(String):

<<DAO>> OrderDAO

+ selectOrder(Integer): Order
+ updateOrder(Order)
+ deleteOrder(Integer)

<< Entity >> Order
- orderID: Integer
- orderDate: Date
- orderStatus: Boolean
- code : String
- buyer: User

+ getCode(): String
+ getOrderID(): Integer
+ setOrderID(Integer):
+ getItemInvolved(): Item
+ setItemInvolved(Item):
+ getOrderDate(): Date
+ setOrderDate(Date):
+ getOrderStatus(): Boolean
+ setOrderStatus(Boolean):
+ getBuyer(): Buyer
+ setBuyer(Buyer):

<< Entity >> ItemInSale
- price: Integer
- description: String
- condition: Condition(enum)
- availability: Boolean
- media: String[0..*]
- address: Location

+ getPrice(): Integer
+ setPrice(Integer):
+ getReferedItem(): Item
+ setReferedItem(Item):
+ getCondition(): Condition
+ setCondition(Condition):
+ getAvailability(): Boolean
+ setAvailability(Boolean):
+ getMedia(Integer): String[0..*]
+ addMedia(String):
+ deleteMedia(Integer):
+ getSeller(): User
+ setSeller(User):
+ getAddress(): Location
+ setAddress(String):

<<Entity>> Item
- name: String
- languages: String[0..*]
- publishingDate: Date

+ getGenre(): Genre
+ setGenre(Genre):
+ getName(): String
+ setName(String):
+ getPublishingDate(): Date
+ setPublishingDate(Date):

<<Entity>> Movie
- duration: Integer
- genre: MovieGenre (enum)

+ getDuration(): Integer
+ setDuration(Integer):
+ getGenre(): MovieGenre
+ setGenre(MovieGenre):

<<Entity>> VideoGames
- consoles: VGConsoles (enum)
- genre: VideoGamesGenre (enum)

+ getConsole(): VGConsole
+ setConsole(VGConsole):
+ getGenre(): VideoGameGenre
+ setGenre(VideoGameGenre):

<<DAO>> UserDAO

+ selectUser(String): User
+ updateUser(User)

<<Entity>> Wallet
- currentCredit: Integer

+ getCurrentCredit(): Integer
+ getOrder(Integer): Order
+ setCurrentCredit(Integer):
+ addOrder(Order):
+ removeOrder(Order):
+ getOrderList(): Order[0..*]

<<View>> RequestView

<<View>> ItemDetailsView

ItemInSaleBean
- itemID: Integer
- price: Integer
- mediaPath: String
- Availability: Boolean
- seller: UserBean
- referedItem: ItemBean

ItemDetailsBean
- description: String
- condition: String
- address: String
- media: String[0..*]

<<Control>> GUIControllerItemDetails

+ clickOnBuy()
+ sendRequest()

<< Control >> ItemDetailsController

+ clickOnBuy()
+ checkRequest()
+ getUserData()
+ getItemByID()
+ getItemDetails()

<<DAO>> ItemInSaleDAO

+ selectItemInSale(Integer): ItemInSale

<<DAO>> RequestDAO

+ selectRequest(String, Integer): Request
+ insertRequest(Request)

<<Entity>> Request
- buyer: User
- referredItem: ItemInSale
- requestStatus: Boolean
- note: String

+ getBuyer(): User
+ setBuyer(User):
+ getSeller():User
+ getReferredItem(): ItemInSale
+ setReferredItem(ItemInSale):
+ getStatus(): Boolean
+ setStatus(Boolean):
+ getNote(): String
+ setNote(String):

- profileInfo
- wallet
- orderList[0..*]
- involvedItem
- referedItem
- seller