

## Item

delete		
Input	Description	Output
<i>precondition: user logged in and upgraded as seller and an Item is selected</i>		
Item not found on the database		an ItemNotFoundException is thrown
valid		it deletes the object Item

modify		
Input	Description	Output
<i>precondition: user logged in and upgraded as seller and an Item is selected</i>		
the title is null, composed only by numbers, longer than 30 characters or contains a special character		the Item is not modified and a TitleInvalidException is thrown
the description is null, composed only by number or longer than 500 characters		the Item is not modified and a DescriptionInvalidException is thrown
category not selected		the Item is not modified and a CategoryInvalidException is thrown
all valid		it modifies the data of the selected instance of the object Item
Item not found on the database		an ItemNotFoundException is thrown

addPicture		
Input	Description	Output
<i>precondition: user logged in and upgraded as seller and an Item is selected</i>		
there is less than one image or more than ten	<i>precondition: the file uploaded is an image type</i>	the Item is not created and an ImageInvalidException is thrown
all valid		It creates an instance of ItemPicture linked with the selected item

getAuctionHistory		
Input	Description	Output
<i>precondition: user logged in and upgraded as seller and an Item is selected</i>		
The item has never been put in an auction		An NoHistoryException is returned
valid		It returns a list of all the old auctions and, if present, the current one

## Auction

subscribe		
Input	Description	Output
<i>precondition: user logged in and has not already subscribed</i>		
User is not allowed to subscribe due to seller's restrictions		A NotAllowedException is thrown
User can subscribe		it adds the user to the subscribedUsers ArrayList and allows the user to bid

checkTime		
Input	Description	Output
<i>precondition: the auctions starting time has been reached</i>		
currentTime < endTime		No output
currentTime = endTime		it closes the auction, calls assignToUser( ), stops checking the time and stops the possibility of place new bids
currentTime > endTime		Throws an InvalidTimeException

assignToUser		
Input	Description	Output
<i>precondition: auction has ended</i>		
No user has placed a bid (currentWinner = null)		Throws a ItemNotSoldException
currentWinner = buyer that has the bid with the last timestamp		The item is assigned to that user (winner = currentWinner)

## Auction

placeBid		
Input	Description	Output
<i>precondition: user logged in and subscribed to the auction</i>		
New bid with the currentValue + fixed value chosen by the seller		the user is set as a currentWinner and computePrice( ) is called
Two bids with the same timestamp value		Throws BidNotValidException to randomly one of them
New bid with timestamp > endTime of the auction		Throws EndedAuctionException

computePrice		
Input	Description	Output
null		Throws nullPointerException
valid		Computes new current price and updates currentValue

## Seller

createAuction		
Input	Description	Output
<i>precondition: seller logged in</i>		
the Item selected does not exist		the Auction is not created and an ItemNonExistentException is thrown
the start or end time are not in the right format (dd/mm/yyyy hh:mm) or the end date is prior the start date		the Auction is not created and a DateInvalidException is thrown
the price and/or the price incrementation are not in the right format (currency) or below zero		the Auction is not created and a PriceInvalidException is thrown
all valid		it creates an instance of the object Auction and return true

addItem		
Input	Description	Output
<i>precondition: seller logged in</i>		
the title is null, composed only by numbers, longer than 30 characters or contains a special character		the Item is not created and a TitleInvalidException is thrown
the description is null, composed only by number or longer than 500 characters		the Item is not created and a DescriptionInvalidException is thrown
there is less than one image or more than ten	<i>precondition: the file uploaded is an image type</i>	the Item is not created and an ImageInvalidException is thrown
category not selected		the Item is not created and a CategoryInvalidException is thrown
all valid		it creates an instance of the object Item and returns true

displayMyAuctions		
Input	Description	Output
<i>precondition: seller logged in</i>		
ArrayList myauctions empty		print “no Auctions already created”
ArrayList myauctions at least one some Auction instances		return ArrayList<Auction>

displayMyItems		
Input	Description	Output
<i>precondition: seller logged in</i>		
ArrayList myItems empty		print “no Items already inserted”
ArrayList myItems at least one some Auction instances		return ArrayList<Item>

## User

userLogin		
Input	Description	Output
the username field is empty		the login will not be done and a UsernameInvalidException is thrown
the mail field is empty, or not in the right format (xxx@xxx.xxx)		the login will not be done and a MailInvalidException is thrown
the password field is empty		the login will not be done and a PasswordInvalidException is thrown
the username or email are not bonded with the provided password		the login will not be done and a LoginInvalidException is thrown
all valid		true

retrieveSubscribedAuctions		
Input	Description	Output
<i>precondition: user logged in</i>		
ArrayList subscribedAuctions empty		prints "no Auctions already subscribed"
ArrayList subscribedAuctions at least one some Auction instances		returns ArrayList<Auction>

becomeSeller		
Input	Description	Output
<i>precondition: user logged in</i>		
SSN empty or not in the right format (XXX-XX-XXXX)		the Seller is not created and a SSNInvalidException is thrown
all valid		creates a Seller instance and returns true

## Dashboard

searchItem		
Input	Description	Output
<i>precondition: user logged in</i>		
the title is null, composed only by numbers, longer than 30 characters or contains a special character		a TitleInvalidException is thrown
category not selected		a CategoryInvalidException is thrown
all valid		return ArrayList<Item>

searchAuction		
Input	Description	Output
<i>precondition: user logged in</i>		
the start or end time are not in the right format (dd/mm/yyyy hh:mm) or the end date is prior the start date		a DateInvalidException is thrown
the price and/or the price incrementation are not in the right format (currency) or below zero		a PriceInvalidException is thrown
the title is null, composed only by numbers, longer than 30 characters or contains a special character		a TitleInvalidException is thrown
category not selected		a CategoryInvalidException is thrown
all valid		returns ArrayList<Auction>



## ItemPicture

remove		
Input	Description	Output
<i>precondition: seller logged in</i>		
the Item selected does not exist		the Auction is not created and an ItemNonExistentException is thrown
all valid		the picture is removed, and the method returns true