

## 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

## 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

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

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 true

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		return true

## 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
Item not found on the database		an ItemNotFoundException is thrown
all valid		it modifies the data of the selected instance of the object Item and return true

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 and returns true

## AuctionBeater

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