

## Seller

<b>createAuction</b>		
<b>Input</b>	<b>Description</b>	<b>Output</b>
<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

<b>addItem</b>		
<b>Input</b>	<b>Description</b>	<b>Output</b>
<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

<b>searchItem</b>		
<b>Input</b>	<b>Description</b>	<b>Output</b>
<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

<b>searchAuction</b>		
<b>Input</b>	<b>Description</b>	<b>Output</b>
<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

<b>modify</b>		
<b>Input</b>	<b>Description</b>	<b>Output</b>
<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

<b>addPicture</b>		
<b>Input</b>	<b>Description</b>	<b>Output</b>
<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