Seller

|  |  |  |
| --- | --- | --- |
| **createAuction** | | |
| **Input** | **Description** | **Output** |
| *precondition: seller logged in* | | |
| 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** |
| *precondition: seller logged in* | | |
| 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 | *precondition: the file uploaded is an image type* | 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** |
| *precondition: user logged in* | | |
| 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** |
| *precondition: user logged in* | | |
| 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** |
| *precondition: user logged in* | | |
| 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** |
| *precondition: user logged in and upgraded as seller and an Item is selected* | | |
| 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** |
| *precondition: user logged in and upgraded as seller and an Item is selected* | | |
| there is less than one image or more than ten | *precondition: the file uploaded is an image type* | 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** |
| *precondition: user logged in and subscribed to the auction* | | |
| 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 |