Seller

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| **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 |

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| **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 return true |

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

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

User

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| **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 |

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| **retrieveSubscribedAuctions** | | |
| **Input** | **Description** | **Output** |
| *precondition: user logged in* | | |
| ArrayList subscribedAuctions empty |  | print “no Auctions already subscribed” |
| ArrayList subscribedAuctions at least one some Auction instances |  | return ArrayList<Auction> |

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| **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 return true |

Dashboard

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| **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 ArrayList<Item> |

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| **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 ArrayList<Auction> |

ItemPicture

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| **remove** | | |
| **Input** | **Description** | **Output** |
| *precondition: seller logged in* | | |
| 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 |