The auction software will allow users to create accounts. From an account, a user can list items for auction. An auction listing consists of the item name, description, minimum starting bid, time listed, and duration. A listing expires once duration time has passed since the time listed, and a listing is active until it expires. A user can view all active listings. From an account, a user can place a bid on an active listing. A bid consists of an amount, the listing being bid on, and the account placing the bid.



Make Bid

*Main flow of events*

The use case starts when the Account Holder is viewing a single active listing and chooses to make a bid. The system prompts the user to enter the bid amount. The user enters a bid amount. The system confirms that the bid amount is greater than the current high bid. The bid is recorded as the current high bid, ending the use case.

*Exceptional flow of events:* There are no bids. The system confirms that the bid amount is greater than or equal to the minimum starting bid.

*Exceptional flow of events:* The Account Holder’s bid is not higher than the current high bid or the minimum starting bid if there were no bids. The system will reject the bid.

|  |
| --- |
| Account |
| name  login information  id  bids  listings  auctioneer |
| add\_bid(bid:Bid) |
|  |

|  |
| --- |
| Listing |
| item name  description  minimum bid value  current high bid |
| get\_view():str  get\_current\_high\_bid():Bid  get\_minimum\_start\_value(): float  set\_high\_bid(bid:Bid) |
|  |

|  |
| --- |
| Bid |
| bid\_value  account  listing |
| \_\_init\_\_(listing:Listing, value:float)  get\_value():float |
|  |

|  |
| --- |
| Auctioneer |
|  |
| bid(listing:Listing, bid\_value:float, account: Account): bool |
| Manage bids, make sure they follow the rules |

