

Project State:

Tenpest, Riley, Art, Willie

User stories

1. As an AuctionCentral employee, I want to view a monthly calendar with past and future jobs. Main calls calendar, calendar then looks through the list of auctions and displays them. We tested this by making sure the getAuctions method works. In the console I log in as an auction central employee and select to view monthly calendar.

2. As an AuctionCentral employee, I want to view the details of an auction. For this user story main calls the user which calls the calendar which calls the getters and setters of the specific auction. To test this we made sure that our getter for get Auction and getters for all the auction's fields worked as well. In the console I log in as an auction central employee and select view auction details and then enter the name of the non profit organization and it will display the information of the auctions.

3. As a Non-profit organization staff member, I want to schedule an auction. The main calls the calendar which calls the auction constructor and adds the new auction to a list in the calendar class. To test this we made sure that the auction was created successfully and added to the list in the calendar class. In the console I log in as a non profit then select schedule and auction and then enter the auction information.

4. As a Non-profit organization staff member, I want to enter auction information. The main calls the calendar which calls the auction constructor and asks for all the auction information, you will then enter the information of the auction. To test this we made sure that all the details that were added to the auction after we created it and entered the information. In the console I schedule an auction and then enter the information of the auction.

5. As a Non-profit organization staff member, I want to edit auction information. The main calls the calendar which accesses the auction and uses its setters to change the auction information. to test this we made sure that the setters in the auction class worked. In the console as a nonprofit I select edit auction information and then select the detail I would like to edit and then I enter the new information.

6. As a Non-profit organization staff member, I want to enter inventory item information. The main accesses the calendar which accesses the auction which can then have items added or removed from it and using the item setters we can set the information in them. to test this we made sure that the items were added to the correct auction and contained the correct information. In the console I select enter item information from the nonprofit's menu and then enter the items information.

7. As a Non-profit organization staff member, I want to edit inventory item information. The main accesses the calendar which accesses the auction which accesses the item and by using the

item setters we can edit the information. To test this we made sure that the setters changed the fields according to our inputs. In the console I select edit item information from the nonprofit's menu and then enter the changes accordingly.

8. As a Bidder, I want to choose an auction from those available for bidding.

The main accesses the bidder class which accesses the calendar which accesses the auction from a list of all existing auctions. To test this we made sure that after the bidder selected the auction that auction was the one selected. In the console in the bidder's menu select choose and auction.

9. As a Bidder, I want to bid on an item in an auction.

The main accesses the bidder class which accesses the calendar which accesses the auction which accesses the item which then calls the bid function. To test this we made sure that the bidder and the bid were added to the map of bids on the item in the item class and that the bid and the item were added to the list of bids in the bidder class. In the console in the bidders menu I 1st must choose an auction and then from there I can select bid on an item.

10. As a Bidder, I want to change my bid on an item in an auction.

The main accesses the bidder class which accesses the calendar which accesses the auction which accesses the item which then calls the bid function which will alter your old bid if you have already bid on that item. To test this we made sure that it changed the existing bid and didn't just add a new one. we also made sure it changed the bid to the desired number. In the console in the bidder menu select change existing bid and change it to the desired number.

11. As a user, I want to log in.

The main prompts the user to login and then accesses the specific user type, stores their information to the class and then the main saves their info in a text file. To test this we made sure that each user type could create an account and log in and be prompted with a menu specific to their user type. In the console it prompts you with login option when the program starts. Select login or select create an account, make an account and then log in

Business rules

1. No more than 25 auctions may be scheduled into the future.

In the calendar class when an auction is trying to be scheduled it checks to see if the amount of auctions currently scheduled is greater than or equal to 25. To test this we tried to schedule 26 auctions. In the console when scheduling an auction under the nonprofit's menu it will deny you if you try to schedule an action if they are already at capacity.

2. An auction may not be scheduled more than 90 days from the current date.

In the calendar class it checks the current date and makes sure the date you are trying to schedule and auction is less than 90 days away from the current date. to test this we tried to schedule auctions 91 days from the current day and then years later as well as other random

dates in the future(past 90 days). In the console under the nonprofit's menu if you try to schedule an auction more than 90 days in the future it will not let you.

3. No more than 5 auctions may be scheduled for any rolling 7 day period.

In the calendar it checks if there are 5 auctions in the next 7 days. To test this we tried to schedule 6 auctions in a 7 day period. In the console under the nonprofit's menu if you try to schedule an auction when there are already 5 in the next 7 days it will not let you.

4. No more than 2 auctions can be scheduled on the same day, and the start time of the second can be no earlier than 2 hours after the end time of the first.

In the calendar it checks if there is an auction already scheduled that day and if there is it then checks if the time you want to schedule it is within 2 hours of the other auction. To test this we tried to schedule other auctions 1 hour before and one hour after as well as during the other auction scheduled that day. In the console under the nonprofit's menu if you try to schedule an auction when there are already one that day within 2 hours of the time you want to schedule the current auction it will not let you.

5. No more than one auction per year per Non-profit organization can be scheduled.

In the calendar it checks if the nonprofit's name already exists in the list of auction hosts. To test it we tried to schedule a couple auctions on the same nonprofit and it wouldn't let us. In the console under the nonprofit's menu if you try to schedule an auction when you have already scheduled one it will not let you.

6. No more than one bid per Bidder can be made for any item.

In the item class it checks the map for the name of the bidder, if there name is there it alters their bid instead. To test this I tried to bid multiple times on the same item but it only keeps the most recent bid. In the console in the bidder's menu if you try to bid on an item and you already have it doesn't let you.

7. No user can be an employee of more than one Non-profit organization.

The way the nonprofit user is implemented it is impossible to be the part of 2 organizations. We couldn't exactly test this because the user only has one field for its organization so it can't be a part of more than one. In the console when you create your nonprofit account it only asks for one organization and there is no way to put in a new it account it only lets you enter one organization.

8. A user can only serve in one role: AuctionCentral employee, NPO staff member, or Bidder.

There are three users that all have their own methods and menus. To test it we made a user of each type and tried to call methods from the other user's types and they gave us errors. In the console when you create an account you must choose one of the 3 roles and then when you log in each role has a different menu that allows them access to things other classes don't have access to.

9. A bid will only be accepted if it is as least as high as the minimum starting bid for the item. In the item class in the bid method there is a private method that checks if the incoming bid is greater than the starting bid. To test this I tried to bid multiple numbers under the starting bid. In the console if the bidder tries to bid below the starting bid it tells you that you cannot bid that amount.

10. The name of an auction is the combination of the Non-profit organization name and the auction date (including year). For example: Goodwill-Industries-May-5-2012
In the auction class there is a field that is a string that is called name that puts the auction name and date together. To test this we had to make sure every place we changed the date or the organization name that the name would change too. In the console whenever you see the name of an auction it will be the format above.