Use Case Name: set up an auction	ID: 110	Importance: High
Primary Actor: Dealer		Use Case Type: Business

Stakeholders and Interests:

Dealer: Increase sales and profits. Smooth order flow reduces errors and disputes, enabling fast order processing and revenue capture.

Artists: Get paid accordingly and get a visibility boost. Information that reflects their work, buyers who pay on time and expect the transaction process to respect their creative rights.

Buyers: Purchase the item of their choice, while expecting the order process to be secure, convenient and transparent. Keep abreast of order processing progress and logistics information.

Brief Description: The dealer starts the auction and sets the starting price, allowing other buyers and sellers to join. After the price is determined, the auction item is locked.

Trigger: The Dealer starts the use case by clicking the 'Create Auction' button after Loggin

Type: Functional

Relationships:

  Association: Dealer

  Include: null

  Extend: Auction Broadcast

  Generalization: Manage Transactions

Normal Flow of Events:

1. Dealer log into ArtSpace.

2. If the Dealer fails the system's account and password authentication, return to step 1.

3. The Dealer clicks the "Create Auction" button.

4. The system displays the Auction creation Options.

5. The Dealer fill artwork information and set starting price.

6. The system validates the format and completeness of the entered information.

   If start price is 0 or artwork unavailable, Jump to Sub1: Validate Artwork Availability.

7. The system return Auction ID and saves the detailed order information.

   The system change Auction status to "Ready"

8. The system Start Auction Session.

   Jump to sub2: Start Auction Session

9. If Auction is successful start:

   The system sends display an link and "Auction entry" button.

10. User click "Auction entry" button.

11. The Auction status is updated to "Start".

SubFlows：

Sub1: Validate Artwork Availability and Pricing

1. The system checks the uploaded artwork information from Dealer.

   If the Artwork detail is invalided:

        Prompt the Dealer to re-upload artwork.

        Execute Ex1: Exception in artwork detail.

Sub2: Start Auction Session

1. The system try start an online meeting.

2. If the meeting is successful create:

   Record the Auction ID and generate Meeting link.

   Return the meeting link to Dealer.

3. If the meeting starts fails, Jump to Ex2

Alternate/Exceptional Flows

Ex1: Artwork information invalidates

1. The system displays a prompt: "The Artwork uploaded is invalidate, caused: {reason}".

2. Provide options:

     a. Re-upload artwork information.

     c. Cancel the Auction.

3. After the Dealer upload new artwork, the system re - validates information.

Ex2: Connection established failed

1. The system displays a prompt: "The Auction has an Internal error, caused by: {reason} ".

2. The Dealer must stop auction:

  Option: Exit

3. The system report log to system manager