University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

Date: 30 September 2024

Group Number: 26 .

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

2. a. Domain of the application:

The domain of the application is an **auction management and logistics database**. It is focused on the operations of an auction house, which involves managing auction events, participants, items for auction, and the logistics of storing and delivering items pre-auction. The application is built to handle the complexities of conducting auctions, managing bids, and ensuring the proper flow of goods between sellers and buyers.

b. Aspects of the domain modeled by the database:

The database will model the entities that include auction sessions, auctioneers, items, delivery vehicles, storage facilities, appraisers, and customers. In the auction domain, auctioneers facilitate the bidding process, items are auctioned, and customers participate as either sellers or bidders. The ISA relationship allows customers to act as either sellers or bidders, while the weak entity "bids" will be used to represent bid transactions. The database will also track the logistics of moving auctioned items from storage to the customer using delivery vehicles. The database will manage sales and auction management, appraisal valuation, inventory management, and customer transactions. This application fits within the domain by addressing how auctions are conducted and how goods are managed pre-auction.

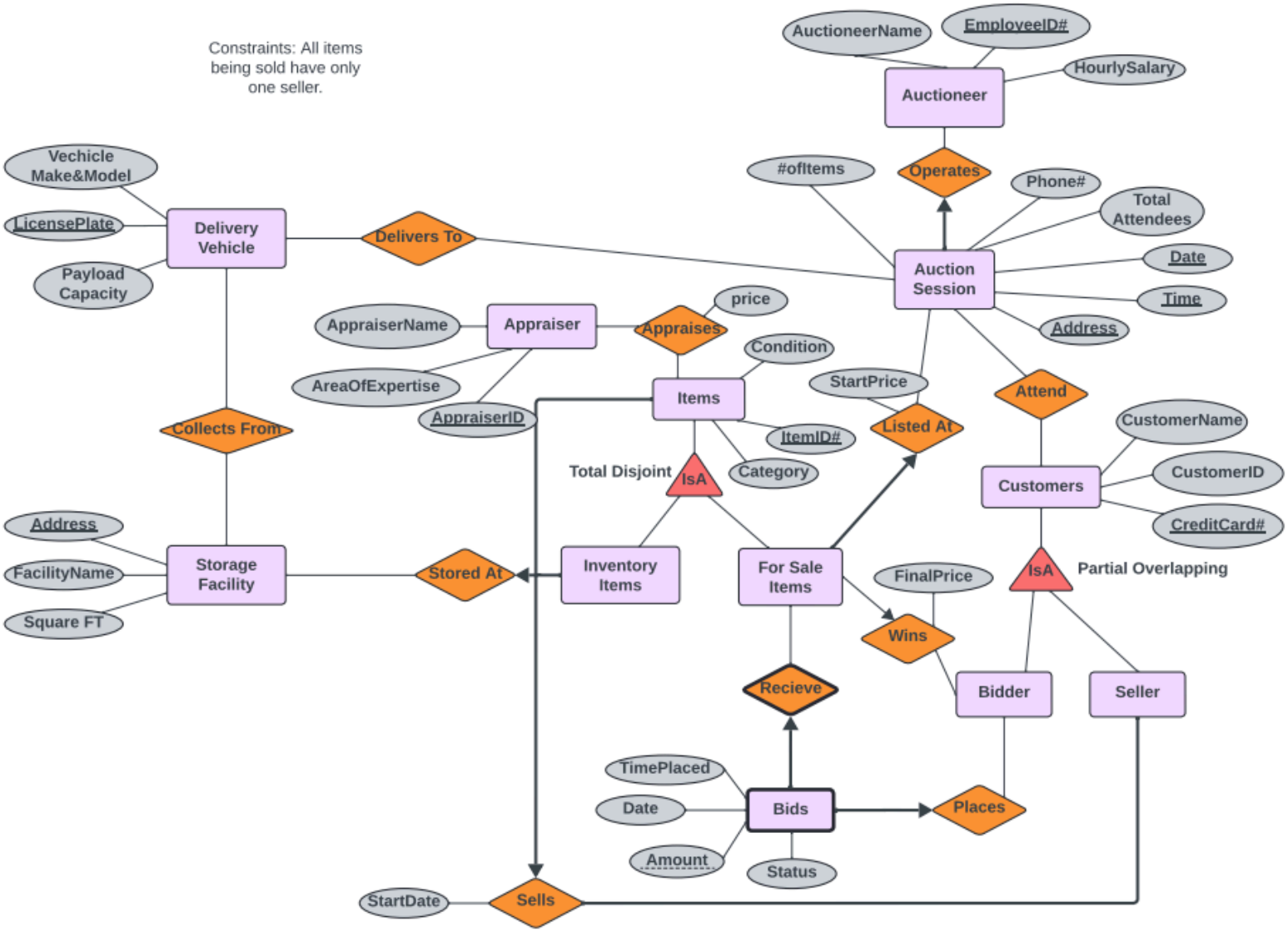
3. Database Specifications:
The database will allow the auction company to manage auction sessions, including the creation and scheduling of auctions, registration of auctioneers, and tracking items up for bidding. It will also enable the tracking of placed bids, track bid histories, and manage customers as either sellers or bidders. The auction company will also be able to manage the logistics of items, such as assigning storage facilities and coordinating delivery vehicles. The user will be able to update, create, and view items that have been sold, ready to sell, or in storage. The user can also add bids into the system to specific items. Users will be able to view attributes including auction times, locations, and dates. Users will be able to query prices at which items are sold at. Additionally, the database will handle appraisals, providing a way for appraisers to evaluate and assign values to items before they are auctioned. The database ensures data integrity and provides detailed records of all auction-related transactions, from bids to deliveries.

4. Description of the application platform: (2-3 sentences)
a. What database will your project use?

We will use the department provided oracle.

b. What is your expected application technology stack (i.e., what programming languages and libraries do you want to use)? See the “Project Platforms” section of this document for more information.

We plan to use javascript to create the interactive GUI and use the department provided Oracle RDBMS.


Constraints: All items being sold have only one seller.
AuctioneerName
EmployeeID#
HourlySalary
Auctioneer
Operates
#ofItems
Phone#
Total Attendees
Date
Time
Address
Auction Session
Vechicle Make&Model
LicensePlate
Payload Capacity
Delivery Vehicle
Delivers To
price
AppraiserName
Appraiser
Appraises
Condition
AreaOfExpertise
AppraiserID
Items
ItemID#
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Total Disjoint
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StartPrice
Listed At
Attend
CustomerName
CustomerID
CreditCard#
Customers
Collects From
Address
FacilityName
Square FT
Storage Facility
Stored At
Inventory Items
For Sale Items
FinalPrice
Wins
IsA
Partial Overlapping
Recieve
Bidder
Seller
TimePlaced
Date
Amount
Bids
Status
Places
StartDate
Sells

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