Assignment 1: Auction DBMS

Assignment 1: Week of Sep. 11

Application Description: Finalize the application in consultation with the lab TA. Prepare a report to clearly **describe about the application, its functions and information you expect from it,** at the level of a technical report, and submit it to the TA

Functions and Information(Do report form with bullets):

* Similar to online auction sites like eBay
* Ability to bid, buyout, and list auctions
* Can set time for auction to end
* Can search for auctions/items
* Can see almost ended auctions
* View won auctions
* View owned listed auctions
* View auctions that you are involved(bidding) in

Products info, user, seller, buyer, manager, product price, user login details, user personal info, ongoing auctions, buyer won auctions, finished auctions, buyout price,   
  
Auction, Products,

(Sellers, Buyers, Manager) = Users

Shipping info?

Watchlist?

category?

DEFINITE ENTITIES:

Admin, User, Auctions, Item Listing, Bidding  
Finance? Shipping?

| **USER (bidder and auctioneer)** | | | |
| --- | --- | --- | --- |
| User\_ID | Name | Username | Password |
|  |  |  |  |
|  |  |  |  |

| **ADMIN** | | |
| --- | --- | --- |
| Admin ID | Username | Password |
|  |  |  |
|  |  |  |

| **AUCTIONS** | |
| --- | --- |
| User ID | Item ID |
|  |  |
|  |  |

| **ITEMS** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Item ID | Item Name | Item Description | Minimum Bid | Start Date | End Date |  | Buyout Price |
| 1 | TP | Gold | 1000 |  |  |  |  |
|  |  |  |  |  |  |  |  |

| **BIDS** | | |
| --- | --- | --- |
| Item ID | User ID | Top Bid |
|  |  |  |
|  |  |  |

Maybe:

| **SHIPPING** | | |
| --- | --- | --- |
| Item ID | Shipping Address | Tracking Number |
|  |  |  |
|  |  |  |

| **FINANCE** | | | | |
| --- | --- | --- | --- | --- |
| User ID | Card Number | Expiry Date | Billing Address | CVV |
|  |  |  |  |  |
|  |  |  |  |  |

User → Shipping (Ships to)

User → Finance (Pays with)

Admin → Auction (Modifies)

User → Listing (Creates)

Auction → Items (Controls)

User → Bids (adds Bids)

Auction → Items (Lists)