**Users (**

* + ID (email address)
  + Password

***Bidders***

* All lsu students bidders by default
* Email address
* Name
* Address (city, street state, zipcode)
* Collected for marketing analysis:
  + Major
  + Age
  + Gender
  + Annual income
* Logs in with email and password
* Can update all personal info except ID
* Can manage payment info such as credit card, only visible to themselves
* Can browse using categories
* Can send questions about products
* Bidder can see product, seller info, related products
* Products already sold should not be visible
* Pay immediately after bid is over
* Rate seller after buying ( 5 star system )
* Bidders must reach out to helpdesk to become sellers

***Sellers***

* Logs in with email and password
* Sellers are either students or local vendors
* Bank routing number
* Bank account number
* Balance
* For Vendors:
  + Business name
  + Business address
  + Customer service number
* Promotional occasions
* If seller leaves, his products leave with him, cascade delete
* For products:
  + Category of product
  + Description of product
  + Reserve price ( hidden from buyer )
  + Auction stop time
* Can see questions asked to them, as well as their own reviews
* Must reach out to help desk to create a new category
* Product delisted after auction, sold or not, bids are auctioned
* Products listed for auction by **one** seller
* Must contain archive of everything ever listed

***HelpDesk***

* Users must submit to helpdesk to change user ID
* Bidder -> seller must be submitted
* Seller creating new category must be submitted
* Perform marketing analysis

***Product***

* Every product belongs to **exactly one** category
* Every product is listed by **exactly one** seller
* If multiple of the same producted listed, auctioned together
* Must have title, detail, category, and reserve price of product
* Additional information may also be included if necessary
* If local business selling product de-lists, then the product disappears too

***Bidding***

* Can place one or more bids as long as they are not the item’s seller
* Bids must be at least $1 higher than previous bid, and placed before time is up
* Seller notifies all bidders of final, highest bid
* Highest bidder must then complete transaction
* Auction starts when seller starts it, ends when seller specified

***Categories***

* One category may have multiple subcategories, except the lowest level (leaves)
* Buyers can select categories to narrow down searches to what they want

**Zip codes in address determines both state and city**

**Student’s email address determines the login password**