Ratings:

We attempt to control fraud by allowing users to comment on the past behavior of other users. You can design a rating system that you think will lead to the best quality control. These ratings and a short explanation are then made to other users.

Ratings is an entity with the attributes:

1. Date – This is the date of when the review was writte
2. Review – What are the reviews given by previous buyers on the seller
3. Stars – A visual representation of the rating, which ranges from 1 to 5 stars

This is a urinary relationship because only registered users can review other registered users.



Sale Item:

An item is sold either by listed price or by auction. The sources of the items may be a company (i.e., a supplier) or an individual (i.e., an online seller). A unique identifier is assigned to an item when it is in stock or put up for auction. A short description is associated with an item (provided by a supplier or a seller). The online seller may specify a reserve price (which is hidden from the buyers) for an item he posted for auction. A reserve price is the minimum price a seller is willing to accept for the item. At the end of the auction, if no bid is higher than the reserve price, the item will not be sold. The seller must also specify the location of the item.

Item is an entity with the attributes:

1. IID – This is the item ID, which is used to distinguish between every item in the store
2. Quantity – The number of items remaining
3. Category – Which department the item falls under
4. Description – A brief description of the item being sold

We have an ISA relationship with Sale\_Item and Auction\_Item.

Sale\_Item is an entity with the attributes:

1. Price – This is the fixed price of the item being sold

Auction\_Item is an entity with the attributes:

1. Min Price – The minimum bid the seller is willing to take on the item. if the bidder does not reach this price, then the item will not be sold
2. Current Bid – The current bid placed on the item by the buyer



Searches:

Users are able to search the items by entering some keywords or conditions. As a search result, a list of items that satisfy the search criteria is returned to the users. Searches is an entity set between User and Item. User has the ability to search for an item.

