Class Name: User	ID:	Type: Entity
Description: Represents a registered user of the auction we	bsite.	Associated UC: Login/Sign up, Listing, Bidding, Searching
Responsibilities		Collaborators
		T-
Maintain user details		Buyer
		Seller
Attributes		
UserID		
Email		
Password		
Relationships		
Generalization (is-a)	Buyer	and Seller
Aggregation (has-a) Auctio		nItem, bids
Dependency		

Class Name: Buyer	ID:	Type: Concrete/subclass of user
Description: Represents a user who can bid on	auction items.	Associated UC: Bid on Item, Make payment
Responsibilities		Collaborators
Place bids Make payments		AuctionItem Bid Payment
		T dyfficite
Attributes		
Inherits from User		
UserID	Payments	
PlaceBids		
Relationships		
Generalization (is-a)	User	
Aggregation (has-a)	Bid	
Dependency	AuctionItem	, Bid, Payment

Class Name: Seller	ID:	Type: Concrete/subclass of User
Description: Represents a user who can list items fo	r auction.	Associated UC: List Item
Responsibilities		Collaborators
List items	าร	
Attributes		
Inherits from User		
UserID		
ListedItems		
Relationships		
Generalization (is-a)	User	
Aggregation (has-a)	AuctionItem	
Dependency	N/A	

Class Name: AuctionItem	ID:	Type: Entity
Description: Represents an item listed for a	uction on the website.	Associated UC: List Item, Bid on Item
Responsibilities		Collaborators
Maintain item details		Seller
Track highest bid	ack highest bid	
	_	
Attributes		
ItemID	EndTime	
Description	HighestBid	
StartPrice	SellerID	
Relationships		
Generalization (is-a)	N/A	
Aggregation (has-a)	Seller	
Dependency	Bid	

Class Name: Bid	ID:	Type: Concrete
Description: Represents a bid placed by a user on an auction item.		Associated UC: Bid an Item
Responsibilities		Collaborators
Responsibilities		Collaborators
Maintain bid details		Buyer
Link to user and auction item		AuctionItem
Face of the control o		
Attributes		
BidID	UserID	
Amount	ItemID	
Time	Itemis	
Relationships		
Generalization (is-a)	N/A	
Aggregation (has-a)	User	
Dependency	Buyer an	d AuctionItem

Class Name: Search	ID:	Type: Control
Description: Allows users to search for auction items.		Associated UC: Search Item
Responsibilities		Collaborators
Perform search		User
Return search results	eturn search results	
Attributes		
SearchID	Results sorted	I
UserID		
Query		
Relationships		
Generalization (is-a)	N/A	
Aggregation (has-a)	N/A	
Dependency	User and Auct	ionItem

Class Name: Payment	ID:	Type: Concrete
escription: Handles the payment process when a user wins an auction.		Associated UC: Bid an item
Responsibilities		Collaborators
Process payment		Buyer
Update auction item status		AuctionItem
Attributes		
PaymentID	UserID	
Amount	ItemID	
Time	PaymentStatus	
Relationships		

N/A N/A

Buyer and AuctionItem

Generalization (is-a)

Aggregation (has-a)

Dependency