Class Definition

- Account
    - A registered user who is able to save favorites list and profile information. But is not able to make a bid or purchase a product.
- Customer
    - An Account that is able to make a bid or purchase a product because they have given their payment information.
- Favorites
    - A list composed of certain product listings saved by an Account (user).
- Product Listing
    - A selling post created by a Customer; includes details about their product.
- Bid
    - An offered price for an Auctioned product, made by a Customer.
- Auction
    - A special Product Listing allowing buyers to compete in bidding for that Product.
- Order
    - A confirmed purchase note, containing important information about a product listing, the buyer, the total price, and other details including order date.
- Product
    - A pair of shoes that can be sold or bought through the Zapato app.
- Image
    - A picture that gives users a visual depiction of each Product.
- Conversation
    - An instance of communication between two Accounts (buyer & seller), focused on a particular Product listing.
- Message
    - An instance of plaint text within the Conversation instance sent by an Account (sender).

SALT : https://en.wikipedia.org/wiki/Salt_(cryptography)

Account

	Account_ID	EmailAddress	SALT	Hash	full_name	BirthDate	PhoneNumber	Image
PK								

Favorites

	Listing_ID	Account_ID
FK		

Conversation

PK			FK	FK
	Convo_ID	Listing_ID	Account_1	Account_2
		FK		

Message

FK				
	Convo_ID	Message_ID	timestamp	Encrypted_Content	Sender_ID
PK				

Customer

FK			
	Account_ID	Paypal_email	ShippingAddress
PK			

Bid

	FK	
Listing_ID	Account_ID	Price
FK		

Orders

FK			
Account_ID	OrderID	Product_ID	OrderDate
		FK	

Product_listing

FK	PK			
Account_ID	Listing_ID	Product_ID	date_created	price
	FK			

Auction

	PK				
	Listing_ID	Duration(days)	Start_price	Reserve_price	Buyout_price
	FK				

Product

	Product_ID	UPC	Product_size	Product_name	Product_Price	Description
PK						

Image

FK	
Product_ID	Images

contains

Account

An Account is able to save favorites list and Profile information. But is not able to make a bid or purchase a product.

Customer

A Customer is able to make a bid or purchase a product because they have given their payment information.