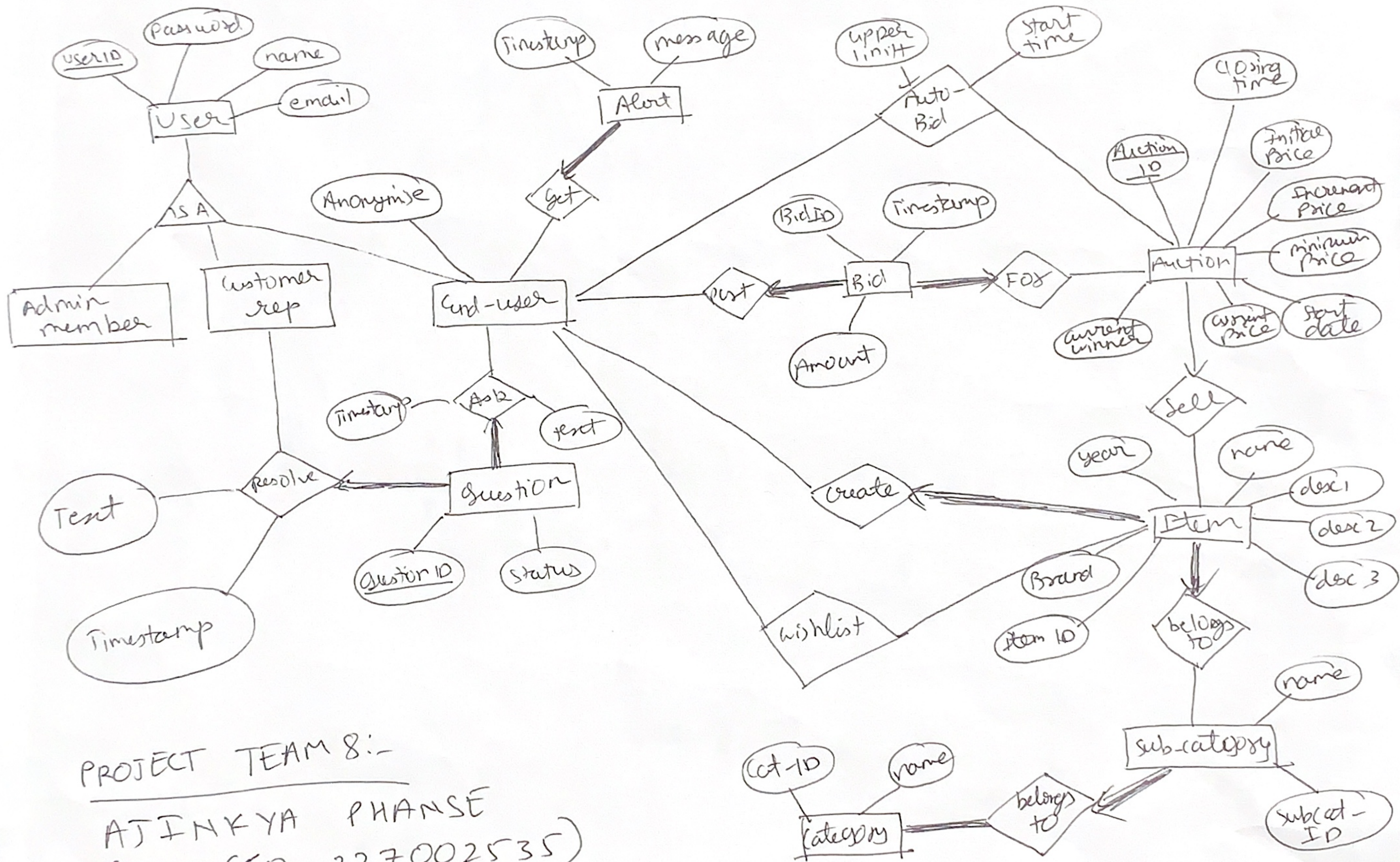


ER DIAGRAM :- BUYME



PROJECT TEAM 8:-

ATINKYA PHANSE
(AMP 660, 227002535)


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User (user_id : varchar(10),
     password : varchar(20),
     name : varchar(50),
     email : varchar(50),
     primary key (user_id))

Administrative_staff_member (user_id : varchar(10),
                             primary key (user_id),
                             foreign key (user_id) references User (user_id))

Customer_representative (user_id : varchar(10),
                         primary key (user_id),
                         foreign key (user_id) references User (user_id))

//buyers and sellers
End-user (user_id : varchar(10),
         anonymize : bool,      //whether end-user wants to show her actual user_id and email address in auctions
         primary key (user_id),
         foreign key (user_id) references User (user_id))

//notifications for end-users
Alert (end-user_login : varchar(10),
      timestamp : datetime,
      message : varchar(5000),
      primary key (end-user_login, message),
      foreign key (end-user_login) references End-user (user_id))

//customer representatives answers questions asked by end-users
Question (ques_id : int,
         ques_text : varchar(500),
         ans_text : varchar(500),
         status : enum('resolved', 'pending'),
         timestamp_asked : datetime,
         timestamp_resolved : datetime,
         end-user_login : varchar(10),
         customer_rep_login : varchar(10),
         primary key (ques_id),
         foreign key (end-user_login) references End-user (user_id),
         foreign key (customer_rep_login) references Customer_representative (user_id))

//category of items (e.g., vehicles or clothing or computers ...)
Category (cat_id : varchar(10),
         name : varchar(20),
         primary key (cat_id))

//e.g., truck, motorbike, car for vehicles
Sub-category (cat_id : varchar(10),
             subcat_id : varchar(10),
             name : varchar(20),
             primary key (cat_id, subcat_id),
             foreign key (cat_id) references Category (cat_id))

```

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Item (cat_id : varchar(10),
      subcat_id : varchar(10),
      item_id : varchar(10),
      name : varchar(20),
      brand : varchar(20),
      year : year,      //year of manufacture
      desc_1 : varchar(100),
      desc_2 : varchar(100),
      desc_3 : varchar(100),
      created_by : varchar(10),      //seller who added the item listing
      primary key (cat_id, subcat_id, item_id),
      foreign key (cat_id, subcat_id) references Sub-category (cat_id, subcat_id),
      foreign key (created_by) references End-user (user_id))

Auction (auction_id : int,
         cat_id : varchar(10),
         subcat_id : varchar(10),
         item_id : varchar(10),
         starting_time : datetime,
         closing_time : datetime,
         initial_price : int,
         increment_price : int,
         minimum_price : int,      //(secret) the seller is not willing to give up the item for less
         curr_winner : varchar(10),
         curr_price : int,
         primary key (auction_id),
         foreign key (cat_id, subcat_id, item_id) references Item (cat_id, subcat_id, item_id),
         foreign key (curr_winner) references End-user (user_id))

Bid (bid_id : int,
     user_id : varchar(10),
     auction_id : int,
     timestamp : datetime,
     amount : int,
     primary key (bid_id),
     foreign key (user_id) references End-user (user_id),
     foreign key (auction_id) references Auction (auction_id))

//automatically put a bid for a user, every time someone bids higher than her
Auto_bid (user_id : varchar(10),
          auction_id : int,
          start_time : datetime,
          upper_limit : int,      //(secret) maximum amount an end-user is willing to pay
          primary key (user_id, auction_id),
          foreign key (user_id) references End-user (user_id),
          foreign key (auction_id) references Auction (auction_id))

//items which an end-user is interested in buying
Wishlist (user_id : varchar(10),
          cat_id : varchar(10),

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subcat_id : varchar(10),  
item_id : varchar(10),  
primary key (user_id, cat_id, subcat_id, item_id),  
foreign key (user_id) references End-user (user_id),  
foreign key (cat_id, subcat_id, item_id) references Item (cat_id, subcat_id, item_id))
```