Online Auction

Database Description:-

The database description contains seven collections: Admin, categories, Trader, Products, Buyer, Payment, Bid and Payment.

The admin will login into the application with the required details of admin, the admin collection contains username and password. When an admin successfully logs into the application or website, then the admin can add the auction categories ,the category collection contains the auction_ category name that was stored in the category collection. After that trader will register into the website with their details, in the Trader collection contains the name, email, password, phone_number, address and status these are stored in the trader collection.
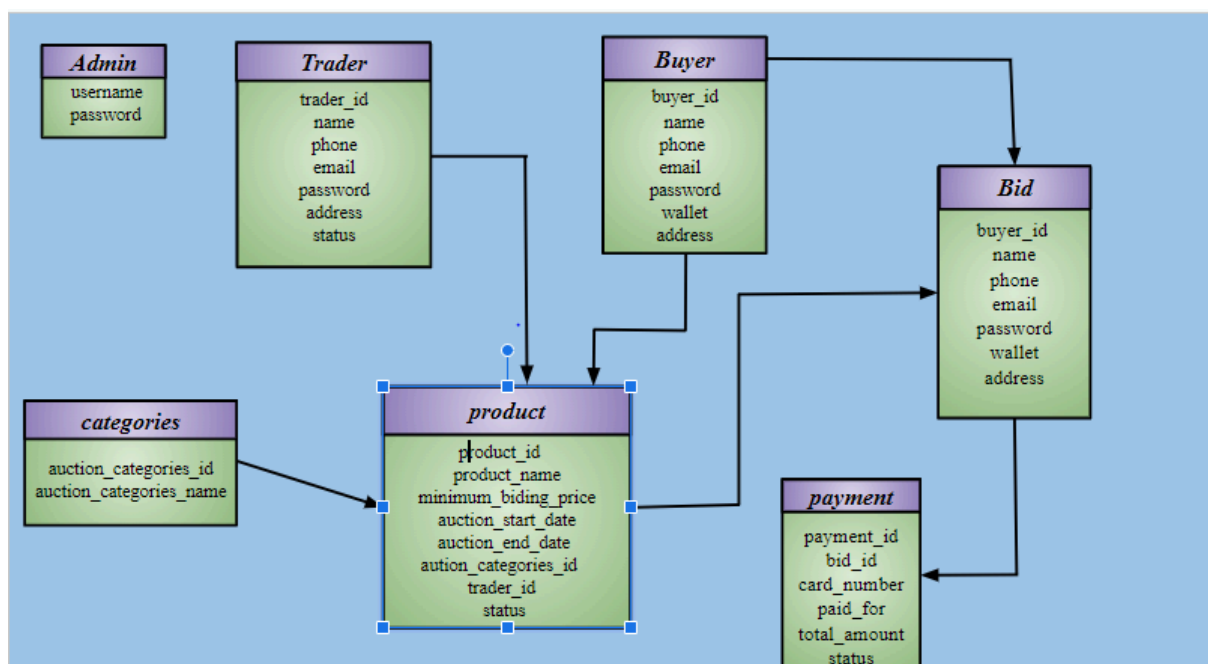
The buyer also will register into the website with their details, the buyer collection contains name, phone_number, email, password, wallet and address. Based on the categories the trader will add the products, the product collection contains the product_name, product_image, auction_start_date_time, auction_end_date _time, minimum_bidding_price, status, auction_categrie_id and trader_id. In the product collection there are two reference keys auction_categrie_id and trader_id.

Based on these products the buyer can view and buy the products. At first when the buyer registered into the website then only the buyer should add some amount into the wallet then only the buyer can buy the product. When the trader adds any product then the status of the product is updated to "posted for bidding" if the bid the product then the status will be updated to "product is assigned" .

If the buyer is bidding the product the status of the product is updated into "dispatched". Any one of the buyers is brought the product then the status is updated to "delivered". When the buyer

wants to buy the product then the buyer should bid the product, the bid collection contains bid_id, product_id, bidding_amount, date, status and buyer_id in this collection there are two reference keys product_id and buyer_id. If the two buyers bid the same product with the same price then the trader will select the buyer at first. The buyer bid the product then he/she should proceed to the payments, in the payment collection it contains the card_number, paid_for, total_amount, status and bid_id, in this payment collection there is a one reference key that is bid_id. If the payment is successful then the status is updated to successful" or "our transaction is failed.

ER Diagram:-

Sample snippets:

Admin:

```
_id: ObjectId('65d34213ebeeadbb5082437e')
username : "admin"
password : "admin"
```

Categories:

```
_id: ObjectId('65d343f5ebeeadbb50824381')
auction_categorie_name : "antique_pieces"
```

Trader:

```
_id: ObjectId('65d344ddebeeadbb50824383')
name : "nikolas"
phone : "+1 484 515 7896"
email : "nikolas07@gmail.com"
password : "nikolas00073"
address : "4-6/B, mexico"
status : "verified"
```

Product:

```
_id: ObjectId('65d345d9ebeeadbb50824385')
product_name : "antique_pieces"
product_image : "image.jpg"
minimum_biding_price : "$1000"
auction_start_date : "02/01/2024"
auction_end_date : "04/01/2024"
categorie_id : ObjectId('65d343f5ebeeadbb50824381')
trader_id : ObjectId('65d344ddebeeadbb50824383')
status : "approved"
```

Buyer:

```
_id: ObjectId('65d347d4ebeeadbb50824390')
name : "neo"
phone : "+1 789 125 1254"
email : "neo0987@gmail.com"
password : "neomission"
wallet : "$1500"
address : "4-8/B, mexico"
```

Bid:

```
_id: ObjectId('65d349dcebeeadbb5082439b')
product_id : ObjectId('65d345d9ebeeadbb50824385')
buyer_id : ObjectId('65d347d4ebeeadbb50824390')
bidding_amount : "$2500"
date : " 02/01/2024"
status : "approved"
```

Payment:

```
_id: ObjectId('65d34884ebeeadbb50824392')
card_number : "123-965-789-456-5616"
paid for : Array (3)
total_amount : "$2500"
status : "transaction_successful"
bid_id : ObjectId('65d349dcebeeadbb5082439b')
```

Database collection:

admin

Storage size: 4.10 kB
Documents: 1
Avg. document size: 22.00 B
Indexes: 1
Total index size: 4.10 kB

Bid

Storage size: 4.10 kB
Documents: 1
Avg. document size: 22.00 B
Indexes: 1
Total index size: 4.10 kB

buyer

Storage size: 4.10 kB
Documents: 1
Avg. document size: 22.00 B
Indexes: 1
Total index size: 4.10 kB

categories

Storage size: 4.10 kB
Documents: 1
Avg. document size: 22.00 B
Indexes: 1
Total index size: 4.10 kB

payment

Storage size: 4.10 kB
Documents: 1
Avg. document size: 22.00 B
Indexes: 1
Total index size: 4.10 kB

product

Storage size: 4.10 kB
Documents: 1
Avg. document size: 22.00 B
Indexes: 1
Total index size: 4.10 kB

Trader

Storage size: 4.10 kB
Documents: 1
Avg. document size: 22.00 B
Indexes: 1
Total index size: 4.10 kB