

Project Database Proposal

Online Pet Adoption

Group Name:

Group 43

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1. Users

The users collection is for the purpose of storing all necessary e-commerce customer information needed to allow for login, purchase, and payment by the customers.

Users Document Object Example JSON

```
{
  "userId" : "7b7997a2-cod2-4f8c-b27a-6a1d4b5b6310" ,
  "firstName": "John" ,
  "lastName" : "Doe" ,
  "email" : "JDoe@gmail.com" ,
  "mobilePhone" : "201-555-1212" ,
  "streetAddress" : "333 River Street " ,
  "city" : "Hoboken" ,
  "state" : "NJ" ,
  "zipcode" : "07030" ,
  "age" : "25" ,
  "password" : "$2a$o8$XdvNkfdNIL8F8xsuIUeSbNOF" ,
  "paymentArray" : [ payment Sub-document type ],
  "orderArray" : [ transId1, transId2... ],
  "favorites" : [pet document type],
}
```

Users Document Object - Definitions

```
{
  userId: "customer userid"
  firstName : "customer first name",
  lastName: "customer last name",
  email : "customer email id",
  mobilePhone : "customer contact number",
```

```

streetAddress: "streetAddress of customer"
city: "City address"
state: "State address"
zipcode: "Zipcode"
password: "encrypted password"
paymentArray : [ ], // sub-document credit card payment info
orderArray: [ ], // array of String transIds
favorites: [ ], // array of pet document type
}

```

Document Details for Users Collection

Field Name	Field Type	Description
userId	String	Unique identifier for user
firstName	String	First name of user
lastName	String	Last name of user
email	String	Email id of user
mobilePhone	String	Mobile number of user
streetAddress	String	Street Address of user
city	String	City address
state	String	State address
zipcode	String	Zipcode
password	String	Encrypted String
paymentArray	Array of payment sub-document type	Payment details for user
orderArray	Array of strings	Array of transaction Ids
favorites	Array of Pet Documents Type	Array of pets

Users Payment Sub-Document Object

```

{
cardName : "full name on card",
cardNumber : "card number",
cardType : "type of card credit/debit",
cardBank : "bank or company issued card",
expDate : "expiration date of card"
}

```

Document Details for Payment Sub-Document

Field Name	Field Type	Description
cardName	String	Name on card
cardNumber	String	Number on card
cardType	String	Debit/Credit
cardBank	String	Email ID of user
expDate	String	Mobile number of user

Example Payment Sub-Document Array

```
[
{
  "cardName" : "John Doe" ,
  "cardNumber" : "1234-1234-1234-1234" ,
  "cardType" : "credit" ,
  "cardBank" : "PNC Bank" ,
  "expDate" : "07/23" ,
},
{
  "cardName" : "John Doe" ,
  "cardNumber" : "1234-1234-1234-5555" ,
  "cardType" : "debit" ,
  "cardBank" : "TD Bank" ,
  "expDate" : "09/23" ,
}
]
```

2. Pets

This pets collection is for the purpose of storing all necessary e-commerce pet information needed to allow for the presentation and information of the pets waiting to be adopted.

Pets Document Object Example JSON

```
{
  "petId" : "7b7997a2-cod2-4f8c-b27a-6a1d4b5b6310" ,
  "name" : "fido" ,
  "type" : "Dog" ,
  "color" : "Black" ,
  "breed" : "Lab" ,
  "age" : "6 months" ,
  "description" : "Likes kids,has shots" ,
  "img" : "/image/fido.jpg" ,
}
```

```

"price" : "$1000",
"status" : "Available",
"comments" : [Comments sub-document type],
"likes" : 10,
}

```

Pets Document Object - Definitions

```

{
  petId: "petid"
  name : "petname",
  type: "Dog/Cat",
  color: "color of pet",
  breed: "pet breed ",
  age: "age of pet years/months",
  description: "general description and anyother info",
  img: "URL of image",
  price: "price to purchase pet",
  status: "available/sold"
  comment: [ ] //array of comment sub-document type
  likes: "number of users that clicked liked on the pet"
}

```

Document Details for Pets Collection

Field Name	Field Type	Description
petId	String	Unique identifier for pet
name	String	Name of pet
type	String	Dog or Cat
color	String	Color of pet
breed	String	Breed of pet
age	String	Age of pet in years/months
description	String	Description of pet and any extra information
img	String	URL to the image of the pet
price	String	Encrypted String
status	String	Sold/Available
comments	Object	Array of the Comment Sub-Document that holds all users comments on the pet

likes	Number	Number of users that like the pet
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Pet Comment Sub-Document Object Example JSON

```
{
  "firstName" : "John" ,
  "lastName" : "Doe" ,
  "comment": "I love this pet!",
}
```

Pets Comment Sub-Document Object - Definitions

```
{
  firstname: //first name of user commenting
  lastname: //last name of user commenting
  comment: //user comment
}
```

Document Details for Pets Comment Sub-Document

Field Name	Field Type	Description
firstname	String	First name of user
lastname	String	Last name of user
comment	String	Comment that user posted for the given pet

3. Orders

This orders collection is for the purpose of storing all necessary e-commerce order information needed to deliver the pet and bill for the pet.

Pets Document Object Example JSON

```
{
  "transId" : "7b7997a2-cod2-4f8c-b27a-6a1d4b5b6310" ,
  "userId" : "7b7997a2-cod2-4f8c-b27a-6a1d4b5b6310" ,
  "petId" : "7b7997a2-cod2-4f8c-b27a-6a1d4b5b6310" ,
  "payment" : payment sub-document type ,
  "date" : "6/22/2021" ,
  "status" : "delivered" ,
}
```

Order Document Object - Definitions

```
{  
transId: "transaction id",  
userId: "user id",  
petId: "petid",  
payment : payment sub-document, // sub-document credit card payment info  
date : "date of purchase",  
status: "billed/delivered/refunded",  
}
```

Document Details for Orders Collection

Field Name	Field Type	Description
transId	String	Unique identifier for transaction
userId	String	userId of purchaser
petId	String	petId of pet sold
payment	Payment Sub-Document	Payment details for this transaction
date	String	Date of transaction
status	String	Billed/Delivered/Refunded...

