CS 546-C: Final Project DB Proposal

ShareSpace

Team Members :
Yash Bhutoria
Mahesh Dhondge
Taher Mundra
Sanchit Sahdev

Users:

The user collection will store all the user data, which will enable the user to log into their accounts and use all the user features in the application

```
{
  "_id": {
    "$oid": "642b59344c793424f827b24b"
  },
  "first_name": "yash",
  "last_name": "bhutoria",
  "email": "yash@sharespace.com",
  "password": "$2b$10$PSW7PLHkqyr.K7t4eedGluQ9bG6SSfZTxSZASb7LP41sdHQ1SPgK.",
  "phone_no": "5512004634",
  "rating": 0
}
```

Name	Type	Description
user_id	string	Mongodb Unique identifier
First_name	string	First name of the user
Last_name	string	Last name of the user
Email	string	Email id of the user
Password	string	Hashed password of user

Phone_no	string	Contact no of the user
User_rating	double	Overall user rating of the user

Listings:

We will use this database to store all the listings created by the users and their various features.

```
listings = {
    "list_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
    "user_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
    "address": "1001 Washington St, Hoboken, NJ, 07030",
    "description": "Large Closet available in Downtown Hoboken",
    "price": "200",
    "length": "20",
    "width": "10",
    "height": "10",
    "area": "200",
    "volume" : "2000"
    "pictures": ["1.jpg", "2.jpg", "3.jpg"],
    "latitude": "40.7440,"
     "longitude": 74.0324",
    "available": "Yes"
}
```

Name	Type	Description
list_id	String	The mongodb unique object id
user_id	String	The user id of the user who creates listing
address	String	Address of the property
Description	String	A description about the property
Price	Double	The price of the space
Length	Double	The Length of the space available
width	Double	The width of the space Available
Height	Double	The height of the space available

Area	Double	The area of space available
Volume	Double	The volume of space available
pictures	Array	A link to the various pictures of the space
latitude	string	Latitude of the space
longitude	string	Longitude of the space
Available	String	To check if the property is available

Reviews :

This will be a collection of reviews on each listing associated with users

Reviews={

      "review_id" : "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b2340"

      "list_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",

      "user_id": "7b7997a2-c0d2-4f8c-b27a-6a1d666310",

      "content" : "hey this is a test review",

      "rating": 4

}

Name	Type	Description
review_id	String	Unique object id
list_id	String	Object id of the listing associated with
user_id	String	Object id of the user who reviewed it
Content	String	The content of the review posted
Rating	Double	The rating posted for the listing

Bookings:

This collection will store all the bookings which will enable us to keep track of all bookings made and show user the booked space.

Bookings = {
       "booking_id" : "7b7997a2-c0d2-4f8c-b27a-6a1d4563280"
       "list_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
       "user_id": "7b7997a2-c0d2-4f8c-b27a-6a1d666310",
       "from_date": "02/02/2023",
       "end_date": "02/08/2023",
       "paidby" : "card - xxxxxxxxxxxxxxxx"
}

Name	Type	Description
booking_id	String	Unique object id
list_id	String	The listing which was booked
user_id	String	The user who booked the listing
from_date	String	Specifies the start date from when user wants to use the listing
end_date	String	Specifies the last date till which user can use the listing
paidby	String	Shows the payment details

Flow chart representing the relations:

Listings Database
- list_id - Object Id
- user id - Object Id
- address - String
- Description - String
- Price - Double
- Length - Double
- Width - Double
- Height - Double
- Area - Double
- Volume - Double
- pictures - Array
- latitude - String
- longitude - String
- Available - String

User Database
- user id - Object Id
- Name - String
- Email - String
- Password - String
- Phone_no - String
- User_rating - Int

Booking Database
- booking id - object id
- list_id - object id
- user_id - object id
- From date - String
- To date - String
- paidby - String

Reviews Database
- review_id - object id
- list_id - object id
- user id - object id
- Content - String
- Rating - Int