

Gym Review Application - DB

Team members

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Users

The user collection will contain all user data, with basic information, user role as either a user or owner, and profile picture (extra feature) for each user. For users (isGymOwner === false), they have a list of reviews (review ids) that the user has posted, a liked and disliked list of gyms (gym ids), and a list of favorite gyms (gym ids). For gym owners (isGymOwner === true), they have access to a list of gyms (gym ids) they created/owned. All users can change their information, and only users can post reviews and comments by logging into their user account.

```
{
  "_id": ObjectId('6407dc03a08d5be58f612163'),
  "firstName": "John",
  "lastName": "Doe",
  "username": "JohnDoe",
  "email": "emailaddress12345@stevens.edu",
  "city": "New York",
  "state": "New York",
  "dateOfBirth": "01/22/1990",
  "isGymOwner": False,
  "hashedPassword": "Pssafjedjasiofew@1234",
  "reviews": ['6407dc03a08d5be58f612161'],
  "comments": ['1234dc03a08d5be58f612161'],
  "likedGyms": ['6456783a08d5be58f612161'],
  "dislikedGyms": ['6407dc9012e58f612161'],
  "favGymList": ['6907dc03a08d515320612161'],
  "gymsListForOwner": []
}
```

Name	Type	Description
_id	ObjectId	Unique identifier to represent the user
firstName	string	First name of the user

lastName	string	Last name of the user
userName	string	Username of the user that will display in the review
email	string	Email of the user
city	string	City that the user based
state	string	state that the user based
dateOfBirth	string	Date of birth of the user: "01/22/1990"
isGymOwner	bool	True/False
hashedPassword	string	The password for all users to login
reviews	array	A list of reviewIds that user have posted
comments	array	A list of commentIds that user have posted
likedGyms	array	A list of gyms that the user thumbs up
dislikedGyms	array	A list of gyms that the user thumbs down
favGymList	array	A list of gyms that the user added to the fav list
gymsListForOwner	array	A list of gyms that the gym owner created/owns

Gyms

The gym collection contains all the listed gyms, with address, phone number, and website. It also has a rating, list of reviews (review ids), count of likedGyms (by users), count of dislikedGyms (by users). Restaurant owners will be able to edit their own basic info after login as a restaurant owner.

```
{
  "_id": ObjectId('6407dc03a08d5be58f612163') ,
  "gymName": "Equinox",
  "website": "https://www.equinox.com/" ,
  "category": "gym",
  "gymOwnerId": '6407dc03a08d5be58f612161'
  "address": "35 Hudson Yards" ,
  "city": "New York" ,
  "state": "New York" ,
  "zip": "10001" ,
  "reviews": ['6407dc03a08d5be58f612161'] ,
  "likedGymsCnt": 10 ,
  "dislikedGymsCnt": 2 ,
```

```
    "rating": 4
  }
```

Name	Type	Description
_id	ObjectId	Unique identifier to represent the gym
gymName	string	Name of the gym
website	string	Website of the gym
category	string	The category of the gym, e.g. pilates, gym, yoga studio, boxing studio
gymOwnerId	string	The id of the gym owner
address	string	Street address of the gym
city	string	City of the gym
state	string	State of the gym
zip	string	Zip Code of the gym
reviews	array	A list of reviews ids posted by users
likedGymsCnt	number	The total number of users who thumbs up this gym
dislikedGymsCnt	number	The total number of users who thumbs down this gym
rating	number	Average rating of all user's posted ratings from the user reviews.

Extra features: longitude, latitude of the gym => google map API

Reviews

The reviews collection should contain all posted reviews by users, with reference to the user who posted, and respective gym, current rating, and review content. Each review also has a list of comments posted under the reviews, which is a sub-document.

```
{
  "_id": ObjectId('6407dc03a08d5be58f612163') ,
  "gymId": '6407dc03a08d5be58f543213' ,
  "userId": '6407dc03a08d5be58f614321' ,
  "dateOfReview": "01/01/2022",
  "content": "I like this gym!" ,
  "comments": [
    { "commentId": ObjectId('6407dc03a08d5be58f612163') ,
```

```

"userId": '1234dc03a08d5be58f612163' ,
"content": "I agree!"}
],
"rating": 4 ,
}

```

Name	Type	Description
_id	ObjectId	Unique identifier to represent the review
gymId	string	Reference to the respective gym
userId	string	Reference to the user who posted the review
dateOfReview	string	The date that the user post the review
content (optional)	string	The content/text of the review
comments	array	Comments are subdocuments of the reviews collection, which are users' comments under a review.
rating	number	The rating the user give, range from 1 (lowest) to 5 (highest)

Comments

Comments are subdocuments of the reviews collection. It contains the user who posted the comment, and the content of the comment.

```

{
  "_id": ObjectId('6407dc03a08d5be58f612163') ,
  "userId": '1234dc03a08d5be58f612163' ,
  "date": "01/01/2022",
  "content": "I agree!",
  "reviewId": '1234dc03a08d5be58f612163'
}

```

Name	Type	Description
_id	ObjectId	Unique identifier to represent the comment
userId	string	Reference to the user who posted the review
date	string	Date of the comment MM/DD/YYYY

content	string	The content/text of the comment
reviewId	string	Reference to the review that this comment belongs to