

Database Proposal

1. **Users:** An encrypted users database is an important feature of the website to keep user information safe while they connect with the community and meet other people who have gone through similar experiences. It would have seven general attributes: firstname, lastname, email, a hashed password, experience, posts and comments. With this data in the database it would be easy to manipulate and translate the data across the website. As an example, when a user completes a task to help talk about the stigma, they can redeem their to do list challenge for experience. This data will all be saved in the backend DB

```
{  
  "_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",  
  "firstName": "John Pierpont",  
  "lastName": "Morgan",  
  "email": "JPMorgan@jpmc.com",  
  "hashedPassword": "*****",  
  "Experience": 1000  
  "posts": []  
  "comments": [],  
}
```

Name	Type	Description
_id	String/ObjectID	Randomly Generated backend id that defines the object
firstName	String	One of the forms of identification
lastName	String	Second of the forms of identification
email	String	Identifier that is unique to only that user.

hashedPassword	BcryptHash	Password guarded by encryption. Kept in the database for the login authentication
Experience	integer	Integer variable that keeps count of the amount of experience gained from challenges.
Posts	Array	An array that stores Post Id's and saves them to the users profile for easy access and editing features.
Comments	Array	An array that stores comment ID's and saves them to the users profile.

2. The second Collection that is to be made is the **forum** Database. The purpose of the forum Database, is to store all of the entries that are posted and rendered to the forum page. This allows for quick data pulls/manipulation from the database, and the collections of users and Forums to work together to display the proper output on the forums React pages.

```
{
```

```
  “_id”: “7626fh-shsiauw2yf-37827he76”,
```

```
  “Author”: “7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310”,
```

```
  “Title”: “Having a good time!”
```

```
  “Description”: “I LOVE coding so much! The hackathon has been a great event and I’ve learned so much!”
```

```
}
```

Name	Type	Description
_id	String/ObjectID	Randomly Generated backend id that defines the object
Author	String/ObjectID	Object Id of a user, tied to their account by an array
Description	String	String containing the description

- The third and final collection is the **toDo** Collection. The toDo collection focuses on the gamification of the website and attempting to retain users through online rewards. The collection takes in three parameters, a string with a statement/command, a boolean for each user loaded, and an integer exp value. When a user completed a task, the boolean turns to true, and they will not see the same task for a specific amount of time. This is to make sure that repeated questions/statements do not pop up so that people can get new and unique challenges. All of these challenges all refer to removing the stigma around addiction.

```
{
  "_id": "7626fh-shsiau2yf-37827he76",
  "Challenge": "Bring up a stigma to a friend",
  "Done": False,
  "expGain": 10
}
```

Name	Type	Description
_id	String/ObjectID	Randomly Generated backend id that defines the object
Challenge	String	String value that offers a challenge for each user
Done	Boolean	True or false to make sure that users do not get the same challenge twice
expGain	integer	Amount of “experience” gained from being apart of the website.