

Final Project Database Proposal

CS546 Web Programming I

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Users

This collection will store all the Users. The users will be able to login, update their details, and like/unlike playlist and songs.

```
{
  "_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
  "username": "graffixnyc",
  "firstName": "Patrick",
  "lastName": "Hill",
  "Email": "phill@stevens.edu",
  "password": "$2a$08$XdvNkfdNIL8F8xsuIUeSbNOFgK0M0iV5H0skfVn7.PWncShU.O",
  "zip": "07030",
  "likedPlaylists": [8dgsv-c0d2-4f8c-b27a-6a1d4b5b6310,
8dgsv-c0d2-4f8c-b27a-6a1d7b5b6330],
  "unlikedPlaylists": [8dgsv-c0d2-4f8c-b27a-6a1d4b5b960],
  "likedSongs": [8dgsv-c0d2-4f8c-b27a-6a1d4b5b6310,
8dgsv-c0d2-4f8c-b27a-6a1d7b5b6330, 8dgsv-c0d2-4f8c-b28a-6a1d4b5b6310,
8dgsv-c0d1-4f8c-b27a-6a1d7b5b6330],
  "unlikedSongs": [8dgsv-c0d2-2f8c-b27a-6a1d4b5b6310,
8dgsv-c0d2-4f8c-b27a-6a1d9b5b6330, 8dgsv-c0d2-4f8c-b48a-6a1d4b5b6310]
}
```

Field Name	Type	Description
_id	string	Automatically generated id from Mongo
username	string	User entered upon account creation, can be used to login
email	string	User entered upon account creation, can be used to login
password	string	The password used to login.
zip	string	The last provided zip from a user to get weather

		details
likedPlaylists	array	An array that stores the playlists a user has liked.
unlikedPlaylists	array	An array that stores the playlists a user has not liked and would avoid.
likedSongs	array	An array that stores the songs a user has liked.
unlikedSongs	array	An array that stores the songs a user has not liked and would avoid.

Songs

This collection will store the details for all the available songs.

```
{
  "_id": "7s34234fv-c0d2-4f8c-b27a-6a1d4b5b6310",
  "title": "Old Town Road",
  "artist": "Lil Nas X",
  "album": "NA",
  "genre": "Hip Hop"
}
```

Field Name	Type	Description
_id	string	Automatically generated id from Mongo
title	string	Song name
artist	string	Artist name
album	string	Album name, if there is no album then default value is 'NA'
genre	string	Genre of music

Playlists

This collection will store the various playlists and the genres and weather tags that relate to each playlist.

```
{
  "_id": "8dgsv-c0d2-4f8c-b27a-6a1d4b5b6310",
  "title": "Relax in the Sun",
  "genre": "Hip Hop",
  "weatherTags": ["Clear"],
  "songs": [7s34234fv-c0d2-4f8c-b27a-6a1d4b5b6310],
  "comments": [9abcd-c0d2-4f8c-b27a-6a1d4b5b6310,
9abcd-c0d2-4f8c-b27a-6a1d4b5b6320]
}
```

Field Name	Type	Description
_id	string	MongoDB automatically generated id of the playlist
title	string	Title of the playlist
genre	string	Genre of the playlist
weatherTags	array	A collection of weather types that the playlist fits
songs	array	A collection of song ids for the playlist
comments	array	A collection of comment ids

Comments

This collections stores comments for users on a particular playlist.

```
{  
  "_id": "9abcd-c0d2-4f8c-b27a-6a1d4b5b6310",  
  "userId": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",  
  "comment": "I <3 it!"  
}
```

Field Name	Type	Description
_id	string	Comment id
userId	string	User who wrote the comment
comment	string	User's comment