

Music Sharing Website

<https://github.com/pszenher/cs546project>

Group Members:

- Kirsten Meidlinger
- Meghana Manikal
- Ashish Negi
- Paul Szenher

Users

The user collection will store all users. Users will be able to login and once they login upload, download, like and dislike, and comment on songs. An array of the song id's the user uploaded, an array of the song id's the user liked and an array of the song id's the user added to playlist is included in this collection.

```
{  
  
  "Id" : "7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310",  
  
  "firstName" : "John",  
  
  "lastName" : "Denver",  
  
  "Email" : "JD@gmail.com",  
  
  "Gender" : "M",  
  
  "City" : "Hoboken"  
  
  "State" : "NJ",  
  
  "Age" : 25,  
  
  "Password" : "Password",  
  
  "Playlist": ["7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310",  
               "7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310"]  
  
  "Songs": ["7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310"]  
  
  "Bio" : "My name is John Denver and I have been playing guitar for 15 years.",  
  
  "Liked_Songs" : ["7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310",  
                   "7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310"]  
  
  "Interested" : ["Rock", "Pop", "Country"]  
  
}
```

Name	Type	Description
_id	string	A globally unique identifier to represent the user
firstName	string	First Name of the user
lastName	string	Last Name of the user
Email	string	Email id of the user
PassWord	string	Hashed password
Gender	string	Gender of the user
City	string	City of the user
State	string	State of the user
Age	int	Age of the user
Bio	string	Some Info about the user (10000 Character Limit)
Songs	array	An array of id of songs uploaded by the user
Playlist	array	An array of id of songs in the playlist of the user
Liked_songs	array	An array of ids of songs liked by the user
Interested	array	An array of interested genres

Songs

The Songs collection will store all the songs created by users. It stores comments that are related to the songs in the comments Collection. An array of comment id's to the song is present in the collection.

```
{
  "id" : "7b799a2-c0d2-8f8c-b27a-6a1d4b5b6310",
  "File" : Audio file stored via GridFS,
  "Title" : "Country Roads",
  "Genre" : "Country",
  "Artist" : "John Denver ",
  "User_id" : "7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310"
  "Like_Cnt" : 56,
  "Dislike_Cnt" : 1,
  "Array_Commen_id":["7b799a2-c0d2-4f8c-b27a-6a1d4b5b9310",
    "7b799a2-c0d2-4f8c-b27a-6a1d4b5b9310,
    "7b799a2-c0d2-4f8c-b27a-6a1d4b5b9310"]
}
```

Name	Type	Description
Id	string	A globally unique identifier to represent the user
File	GridFS	Audio File of the song
Title	string	Title of the song
Genre	string	Genre of the song
Artist	string	Name of the artist or band
User_id	string	Id of the user that uploaded the song
Like_Cnt	int	Number of likes the song got
Dislike_Cnt	int	Number of dislikes the song got
Array_comment_id	array	Array of ids of the comments on that particular song

Comments

Comment is a collection which would contain all the comments and information about the user that wrote the comment. The length of the comment will be limited to 500 characters.

```
{  
  
  "id" : "7b799a2-c0d2-4f8c-b27a-6a1d4b5b9310",  
  
  "Song_id" : "7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310",  
  
  "User_id" : "7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310",  
  
  "UsersWhoLiked" : ["7b799a2-c0d2-4f8c-b27a-6a1d4b5b6310",  
    "7b799a2-c0d2-4f8c-b27a-6a1d4b5b6390"],  
  
  "UsersWhoDisliked" : ["7b799a2-c0d2-4f8c-b27a-6a1d4b5b6319",  
    "7b799a2-c0d2-4f8c-b27a-6a1d4b5b6318"]  
  
  "Comment_Like_Count" : 56,  
  
  "Comment_Dislike_Count" : 1,  
  
  "Comment_Content" : "Great"  
  
}
```

Name	Type	Description
Id	string	Id of the comment
Song_id	string	Id of the song on which the particular comment is made
User_id	string	Id of the user who commented
IUserWhoLiked	Array	Array of user ids who liked the comment
IUserWhoDisliked	Array	Array of user ids who disliked the comment
Comment_like_Count	int	Number of likes for particular comment
Comment_Dislike_Count	int	Number of dislikes for particular comment
Comment_Content	string	String containing the entire comment