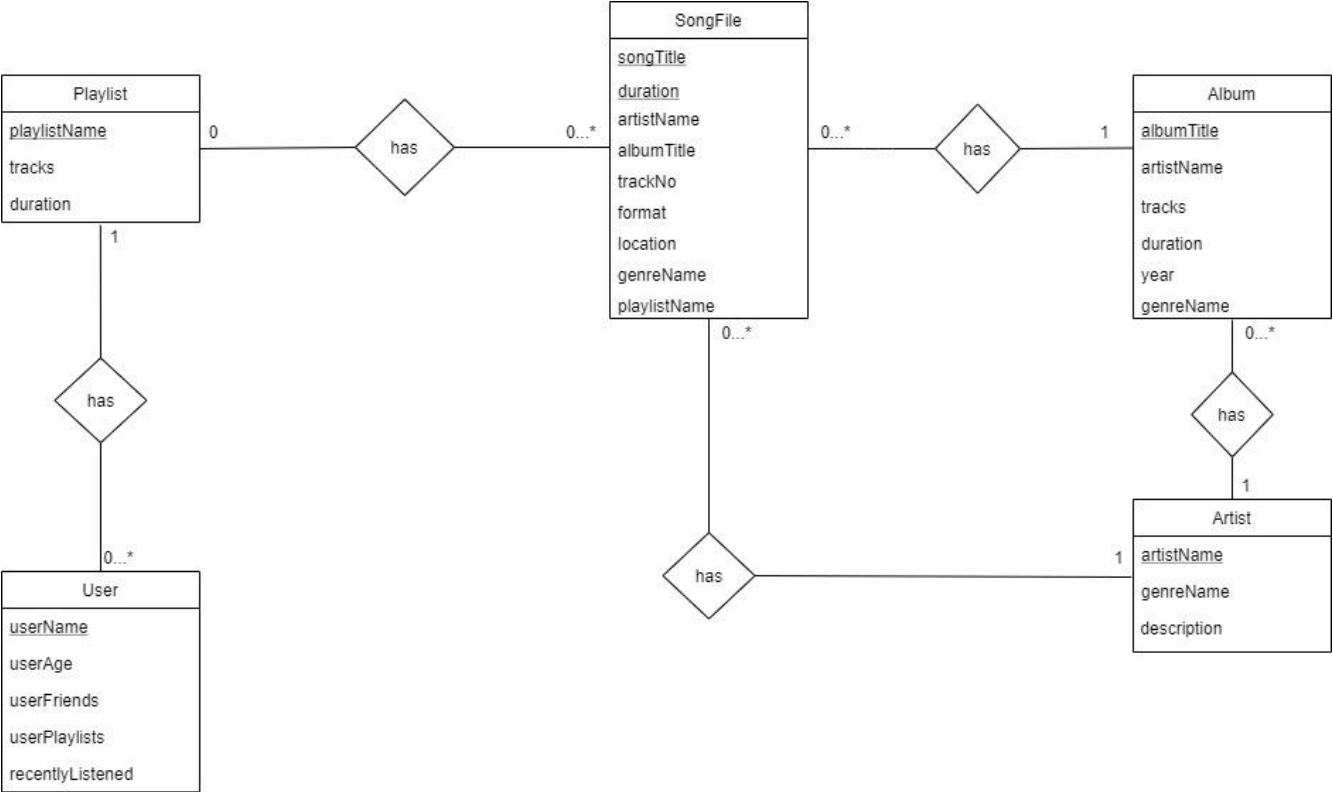


**ER Diagram**



### Relational Model

Entity	Attribute	Domain
<b>User</b>	<u>userName</u> (primary key)	A string of six alphanumeric characters. This is an ID that each user is assigned too
	userAge	Int This is the user's age
	userFriends	String Array This lists the current user's friends
	userPlaylists	String Array This lists the current user's created playlists
	recentlyListened	String This shows the users most recently listened to song and artist of the song
<b>SongFile</b>	<u>songTitle</u> (primary key)	String This is the song's title NOT NULL
	duration (primary key)	Float This is how long the song takes to finish NOT NULL
	artistName (Foreign Key)	String This is the artists name References Artist() NOT NULL
	albumTitle (Foreign Key)	String This is the title of the album that the song belongs too References Album()
	trackNo	Int This is where the song is placed on the album

	format	Varchar The type of file the song is(mp3,WAV...)
	location	Varchar The location of the song in the database NOT NULL
	genreName (Foreign Key)	String The genre of the artist References Artist()
	playlistName (Foreign Key)	String The name of the playlist the song belongs too References Playlist()
<b>Album</b>	<u>albumTitle</u> (Primary Key)	String This is the title of the album
	artistName	String This is the name of the artist of the album
	tracks	Int This is the number of songFiles in the album NOT NULL
	duration	Float Total time of the songs summed up on the album NOT NULL
	year	Int The year the album was released NOT NULL
	genreName	String Genre of the album  References Artist()

<b>Artist</b>	<u>artistName</u> (Primary Key)	String The name of the artist
	genreName (Foreign Key)	String The type of genre the artist is known for
	description	String A small paragraph describing the artist
<b>Playlist</b>	<u>playlistName</u> (Primary Key)	String The name of the playlist
	tracks	Int The tracks currently listed on the playlist
	duration	Float Total time of the songs summed up on the playlist

## Sample Data Example

### SongFile

songTitle	artistName	albumTitle	trackNo	duration	format	location	genreName	playlistName
Earl	Earl Sweatshirt	EARL	1	1:17	mp3	C:\User\fil\songs	rap	
Luper	Earl Sweatshirt	EARL	6	1:59	mp3	C:\User\fil\songs	rap	Rap
Novacane	Frank Ocean	Nostalgia	3	5:02	mp3	C:\User\fil\songs	R&B	R&B Playlist
Yikes	Kanye West	ye	2	3:09	mp3	C:\User\fil\songs	rap	Rap
All Mine	Kanye West	ye	3	2:26	mp3	C:\User\fil\songs	rap	

### Artist

artistName	genreName	description
Earl SweatShirt	rap	Earl Sweatshirt is a young rapper...
Frank Ocean	R%B	Visionary American recording artist...
Kanye West	rap	One of the most influential and critically lauded artists...
Kendrick Lamar	rap	Indisputably the most acclaimed rap artist of his...
Tyler, The creator	rap	One of the more fascinating artistic...

### Album

albumTitle	artistName	genreName	tracks	duration	releaseYear
1970-09-20 - Fillmore East	Grateful Dead	Rock	28	2:47:01	1970
1981-12-31 - Oakland Auditorium	Grateful Dead	Rock	26	3:22:31	1981
EARL	Earl Sweatshirt	Fucking Awesome	10	25:24	2010
Nostalgia, Ultra.	Frank Ocean	R&B	13	42:06	2011
Radical	OFWGKTA	Fucking Awesome	17	51:47	2010

### Playlist

playlistName	tracks	duration
Rock	28	2:47:01
Rap	22	2:55:15
R&B Playlist	13	42:06
Indie Rock	9	22:05
DANCE	19	54:02

## User

userName	userAge	userFriends	userPlaylists	recentlyListened
mouraofp	21	[KevinM, Steven123]	3	Earl – Earl Sweatshirt
JamesB	21	[mouraofp, BroskiMoo, KevinM]	9	Novacane – Frank Ocean
BroskiMoo	21	[Filipe, Steven123]	8	Yikes – Kanye West
bobiscool	65	[ ]	23	All – Kanye West
American911	34	[bobiscool]	14	Don't Gas Me - Dizzee