

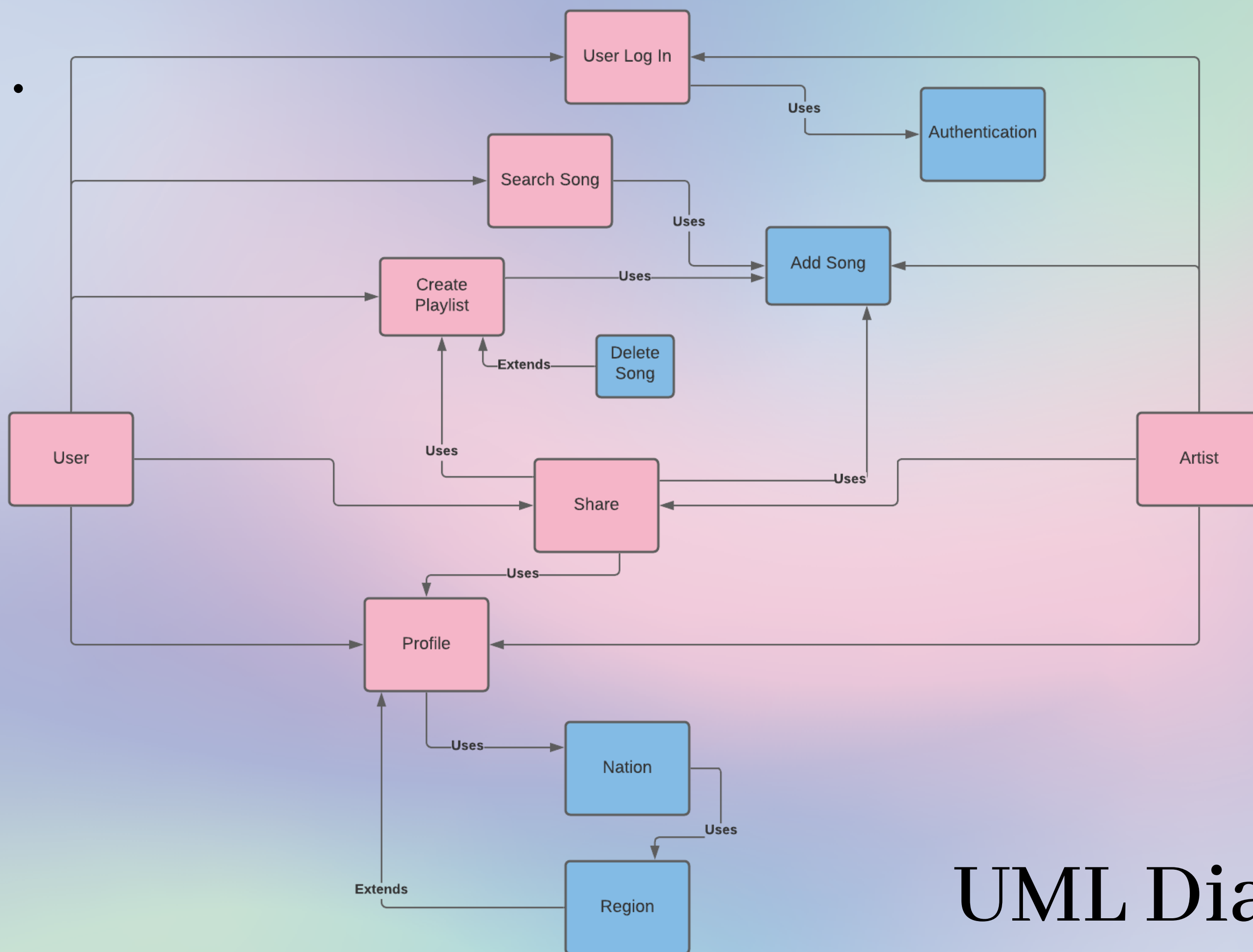


# Phase 1

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# System Description

- A music sharing platform
- Users can search for music
- Artists can upload music
- Users can add or delete a song to a playlist
- Users and artist can share a song, album, playlist, or profile

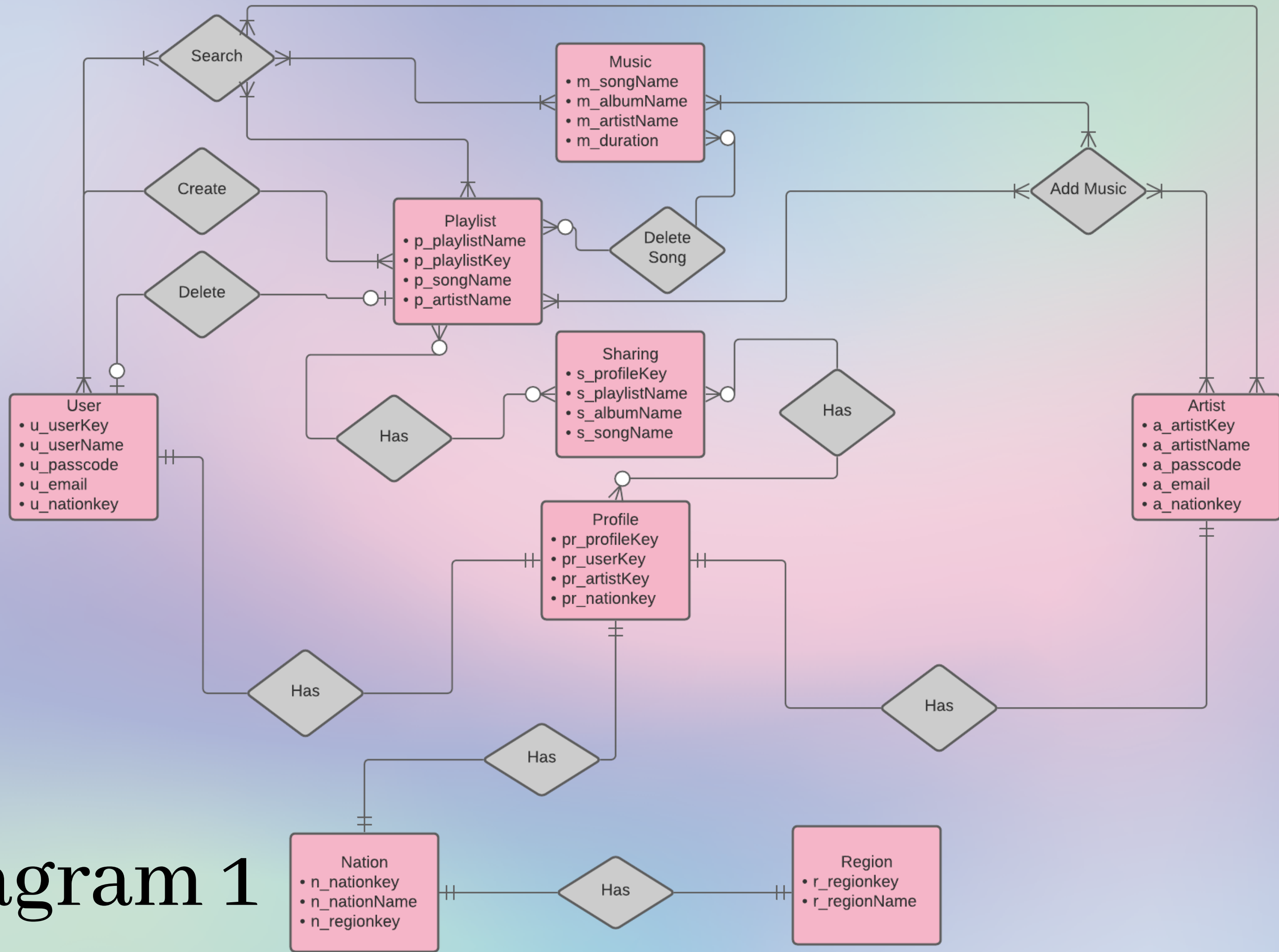


# UML Diagram

# Main Use Cases

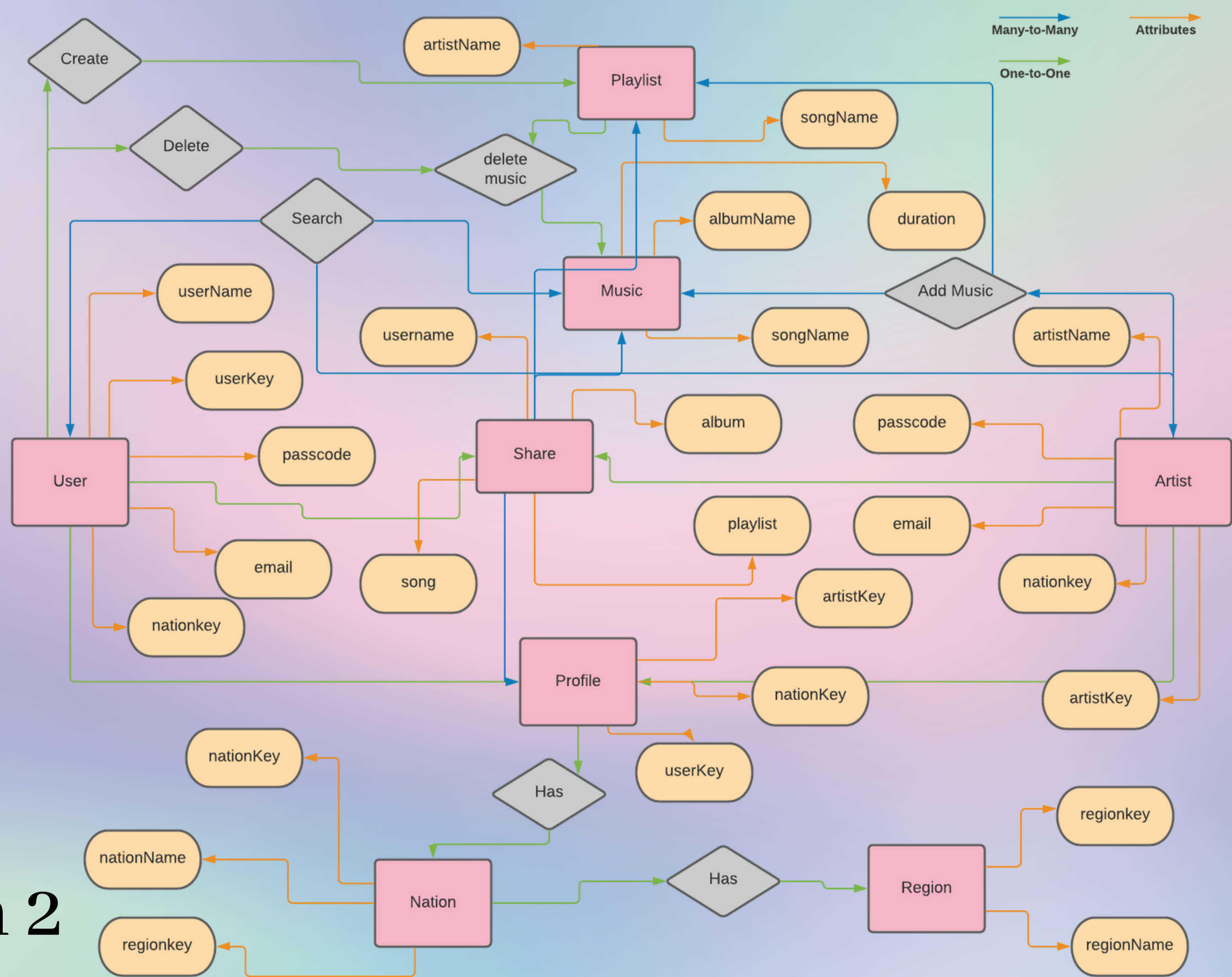
- User is allowed to add/delete a song in their playlist, share certain features
- User Login allows users to have authentication and save their information
- Search - user is allowed to search a song, album, user, or artist and add a song to their playlist
- Create Playlist - user is allowed to create a playlist based on the songs that they like
- Share - user/artists are allowed to share their profile, playlist, album, or song name
- Profile - has information about the user such as their nation and region
- Artist - is allowed to add their music, so that users are able to add their songs to the playlist

# E/R Diagram 1





# E/R Diagram 2



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# Schema

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User(u\_userKey, u\_userName, u\_passcode, u\_email, u\_nationkey)

Artist(a\_artistKey, a\_artistName, a\_passcode, a\_email, a\_nationkey) ,

Music(m\_songName, m\_albumName, m\_artistName, m\_duration)

Playlist(p\_playlistName, p\_playlistKey, p\_songName, p\_artistName)

Sharing(s\_profileKey, s\_playlistName, a\_albumName, s\_songName)

Profile(pr\_profileKey, pr\_userKey, pr\_artistKey, pr\_nationkey)

Nation( n\_nationkey, n\_nationName, n\_regionkey)

Region(r\_regionkey, r\_regionName)

# . . . . . Implementation Details . . . . .

- SQLite for databases
- Use phpMyAdmin to manage databases and create a web application
- Use google forms to gather data for datasets (ie. users, artists, etc)
- Kaggle for song dataset



# Github Details

Github Link:

<https://github.com/JoceyChan/musicPlatform>



# **Thank you!**

**LET US KNOW IF YOU HAVE  
QUESTIONS OR CLARIFICATIONS.**

