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Title: Kansas Project - Your Ultimate Music Collaboration Platform

#### Description of the Application Domain:

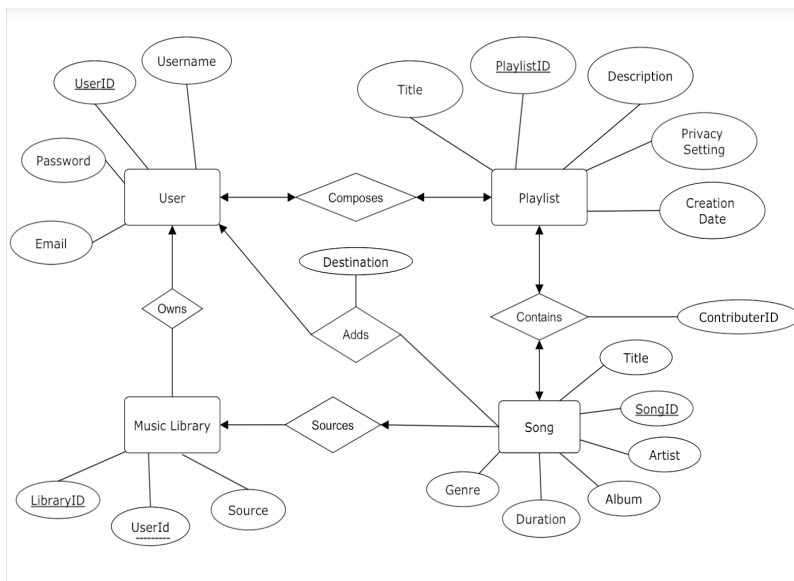
The application we would like to manage with our database is called "Kansas Project."

Kansas Project is a music-focused web and mobile application designed to enhance the music listening and collaboration experience. It allows users to create, manage, and share playlists with their friends, utilizing data from their music libraries on platforms like Spotify or Apple Music.

The Kansas Project distinguishes itself with seamless library integration, allowing users to connect their Spotify and Apple Music libraries for unified music management. It promotes collaborative playlist creation, fostering a sense of community and shared music discovery. Additionally, the application employs AI algorithms to offer advanced playlist recommendations that enhance music curation, supports playlist merging to eliminate duplicates, and enables cross-platform playlist sharing, allowing users to share playlists with friends using different music streaming services.

The "Kansas Project" database draws its data from various sources, including the Spotify and Apple Music APIs, allowing access to users' music libraries and playlist data from these platforms. Additionally, users have the option to contribute their own music files to be included in their "Kansas Project" library. Furthermore, the database encompasses user-generated playlist data, capturing details about playlists crafted and managed by users, which includes comprehensive information like track listings, titles, and descriptions of these playlists. These diverse data sources enable the application to offer a comprehensive and personalized music experience to its users.

The "Kansas Project" offers a range of functionality to enhance users' music experience. Basic functions include user registration and profile management, enabling users to create accounts and personalize their profiles. Users can integrate their Spotify or Apple Music accounts or upload music files to build their music library, while playlist creation tools allow for playlist management, song additions, and privacy settings configuration. Basic sorting features facilitate organizing playlists by artist, album, or genre, and users can easily share their playlists with others through links or social media. Advanced functions include collaborative playlist creation with multiple contributors, AI-powered playlist recommendations based on user preferences, playlist merging to eliminate duplicate songs, cross-platform playlist sharing with friends on different music streaming platforms, and the option to reference and duplicate another user's playlist effortlessly. These features collectively enhance music curation, collaboration, and sharing within the application.



#### ER Diagram Assumptions:

1. Each user can have multiple playlists, and each playlist can contain multiple songs.
2. Collaborative playlists have multiple contributors.
3. Music files uploaded by users are associated with their profiles and can be added to their playlists.
4. User-generated playlist data includes titles, descriptions, and privacy settings.

In summary, Kansas Project aims to create a music collaboration platform that bridges the gap between different music streaming services. Its advanced features, such as collaborative playlist creation, AI-powered recommendations, and cross-platform sharing, make it a unique and powerful tool for music enthusiasts to enjoy and share their favorite tunes with friends.