



UserPlayListService
<p>Long createNewPlaylist(Long userId,List<Songs>songs)</p> <p>PlayList addToPlayList(playlistId,List<Songs>songs)</p> <p>PlayList removeFromPlayList(playlistId,List<Songs>songs)</p>

Backend Recommendation Service
<p>Long createRecommendationPlaylist(Long userId,List<Songs>songs)</p> <p>Tracks UserActivity and hot list new additions and user rankings</p> <p>Can Use Song Ratings,visits and algorithms to prepare recommendation list</p>

UserService
<p>registerNewUser(User user)</p> <p>modifyUser(User user)</p> <p>deleteUser(Long userId)</p> <p>getUser(Long userId)</p>

Backend Song Service
<p>addSong(Song song)</p> <p>deleteSong(Long songId)</p> <p>modifySongInfo(Song song)</p> <p>Song searchSong(Song song)</p>

UserDashBoardService
<p>Song searchSongByName(String songName)</p> <p>Song searchPlayList(String playListName)</p> <p>PlayList getRecommendedPlayList(Long userId)</p> <p>Song searchSongByArtist(String artistName)</p> <p>Song searchSongByGenre(String genre)</p> <p>Song searchSongByMovie(String movie)</p> <p>Song searchSongByAlbumName(String movie)</p>

Scaling

Apis that need scaling:All

Apis that need throughput:User PlayList Service

Country dependency:Geo cluster required with hotspot India

Algorithms used for Recommendation

collaborative filtering algorithm

Caching of playlist Data



