

Cloud Database to Web Backend Interface

All objects will be represented in JSON format unless otherwise noted.

Playlist Object - The Playlist object contains information about a collected group of songs.

Name	Type	Description
playlistID	Int	Unique identifier for the playlist
playlistName	String	Human readable name of the playlist
playlistOwner	Int	The userID of the creator of the playlist

Playlist REST API

HTTP Method	URL	Input	Output	Description
GET	/api/playlist/{playlistID}		playlist	Returns playlist with playlist ID
GET	/api/playlist/{playlistName}		playlistID	Returns playlistID of playlist with name string
GET	/api/playlist/{songID}		(list)playlistID	Returns list of playlist IDs of songs with names containing title
GET	/api/playlist/{playlistOwner}		(list)playlistID	Returns list of playlistID for all playlists with playlistOwner as owner
POST	/api/playlist/{playlistID}	songID		Puts songID into an existing playlist
POST	/api/playlist/{playlistName}	userID		Creates a new playlist with playlistName and userID as the owner.
PUT	/api/playlist/{playlistID}	songID, userID, likeVal		Set the value of "like" tied to a userID for a specific songID in a playlist. (1=like, 0=neither, -1 = dislike)
DELETE	/api/playlist/{playlistID}			Deletes an existing playlist

Song Object - The Song object contains information about a single song.

Name	Type	Description
Song id	Int	The unique id of the song
Title	String	Name of the song
Artist	String	Artist of the song
Album	String	Album the song belongs to
Genre	String	Genre of the song
URL	String	URL that can play the song

Song REST API

HTTP METHOD	URL	INPUT	OUTPUT	DESCRIPTION
GET	/api/song/{songId}		Song	Get the song with the song ID
GET	/api/song/{title}		Song	Get songs with the Title
GET	/api/song/{artist}		Song	Get songs with the artist
GET	/api/song/{genre}		Song	Get songs with the genre
GET	/api/song/{album}		Song	Get songs with the album
PUT	/api/song/{title}	Artist, Album, Genre, URL	songID	Create a new song object and returns its SongID.
DELETE	/api/song/{songID}			Deletes a song object with songID

User Object - The User object contains information about an individual user.

Name	Type	Description
id	String	Unique identifier for a user
firstName	String	First name of the user
lastName	String	Last name of the user
dateJoined	Date	Date the user joined
email	String	Email of the user

User REST API

HTTP METHOD	URL	INPUT	OUTPUT	DESCRIPTION
GET	/api/user/{userId}		User	Get the user with the given userId
GET	/api/user/host/{userId}		List of playlist ids	Get the list of all playlist ids of which the user is a host
GET	/api/user/member/{userId}		List of playlist ids	Get the list of all playlist ids of which the user is a member
GET	/api/user/songlike/{userId}		List of song ids	Get the list of all song ids that the user has liked
GET	/api/user/songdislike/{userId}		List of song ids	Get the list of all song ids that the user has disliked
POST	/api/user/	JSON object of user details	User	Create a new user with given user details
PUT	/api/user/{userId}	JSON of user	User	Update the user details with given user JSON object
DELETE	/api/user/{userId}		User	Delete the user associated with the given user ID.