## Track-ly User Flow

Client-side actions Trackly server actions Spotify Web API

User creates/joins a room

Trackly performs a GET request to retrieve query results

User searches for a song/artist/album

Client Browser passes request to Trackly's server

Spotify Web API generates query results

UI is updated

Client Browser receives results

Trackly servers receive the results of the query

User attempts to link to Spotify

User is redirected back with a **code** 

Code is relayed to Trackly

Client Browser redirects to the **Spotify Authorisation Code Flow** 

Client Browser stores token

spotify OAuth implementation exchanges code for a access and refresh tokens

Trackly servers use a GET request to query the users existing playlists

Trackly servers use a POS request to create a **new playlist** 

Trackly servers relay tokens to the user for temporary storage

Spotify Web API returns a list or playlists

Spotify Web API creates the playlist

Trackly servers receive PlaylistID & passes it to the Client Browser

Trackly servers relay the list to the user, and the user selects a playlist

User chooses a playlist & PlaylistID stored in Browser

(States are now identical)

User adds a song (while linked w/ Spotify)

Trackly servers prop

Spotify Web API adds the song

**Client Browser** sends the song's ID, user access token and user's ID to Trackly

Trackly servers use a DELETE request to delete the song from the playlist

Trackly servers propagates the deleted SongID to all other users in the room.

Spotify Web API deletes the song

User deletes a song (while linked w/ Spotify)