

## **Data Types**

These data types are used to to design the database schema. These will not necessarily be the data types used in the responses of the MagentaM3 API

```
Name
            Type
User
            2 id: id,
             3 display_name: string,
             4 country: string (ISO 3166-1 alpha-2 code),
                email: string,
             6 playlists: [Playlist],
             7 images: [Image],
             8 uri: string (link)
             9 }
Playlist
             1 {
             2 id: id,
             3 collaborative: boolean,
             4 description: string,
             5 images: [Image],
             6 name: string,
             7 owner: User,
             8
                tracks: [PlaylistTrack]
             9 snapshot_id: string,
             10 uri: string (link)
             11 }
PlaylistTrack
             2 id: id,
             3 added_at: date,
             4
               added_by: User,
             5 track: Track,
             6 playlist: Playlist
             7 }
Track
             1 {
             2 id: id
             3 album: Album,
             4 artists: [Artist],
             5 duration_ms: integer,
             6 disc_number: integer
             7 explicit: boolean,
                name: name,
             9 popularity: integer from 0 to 100,
             10 preview_url: string,
             11 track_number: integer,
             12
                 uri: string (link)
             13
                // no images yet
             14 }
```

```
Album
             1 {
             2 id: id
             album_type: string one of ("album", "single", "compilation"),
             4 total_tracks: integer,
             5 images: [Image],
             6 name: string,
             7 release_date: date,
             8 release_date_precision: string one of ( "year", "month", "day"),
             9 uri: string (link),
            10 artists: [Artist]
            11 }
Artist
            1 {
            2 id: id,
            3 name: string,
            4 uri: string (link),
            5 }
Image
            1 {
            2 id: id,
            3 url: string (link),
            4 height: integer,
            5 width: integer
            6 }
```

## Interface

Method	tRPC Route	Description
Mutation	user.syncSpotifyData	Synchronises an MM3 user with Spotify data
Query	playlist.getPlaylists	Provides a list of playlists owned by the user
Query	playlist.getPlaylist	Returns information about a playlist including its tracks
Mutation	playlist.syncPlaylist	Synchronises an MM3 playlist with Spotify data
Mutation	playlist.updatePlaylist	Updates a playlist across MM3 and Spotify

## Limitations

- No handling of market logic, content restrictions, explicit content information, copyrights
- · Doesn't support local files
- Doesn't have external ids in entities
- No logic regarding genres for artists/albums or audio analysis for songs
- Only one-way relationship for album and tracks: can get album from track but not tracks from album
- Can't handle episodes, only tracks
- No UserTrack entity that stores information about the track per user e.g. tags the user has used