💡 Project Proposal

Problem Statement

Spotify is an effective platform for distributing music to its users but it holds limited functionality in managing playlists. Songs in playlists can only currently be sorted by title, album, artists and date added. Sorting and grouping songs, especially in large playlists, becomes tedious. MagentaM3 aims to provide a simple interface that allows users to sort and group songs and playlists through more interesting fields e.g. mood, location, colour.

Basic Functionality

- The app will contain a main grid that displays tracks and their properties in its rows.
- Each column can be sorted on. Multiple columns can also be sorted on.
- Each row can be selected. Multiple rows can also be grouped together.
- Users can manage their playlists via properties including (note there may be overlap)
  - Spotify built-in properties e.g. artist, album
  - Calculated properties e.g. popularity, genre, artist-origin, date-made, date-added, mood, and music-related properties such beat, instruments etc.
  - Custom properties e.g. colour, location, person-you-think-of, last-listened-to, activity e.g. cooking, running
- The app should support users in managing the state of playlists through both the app and Spotify i.e. a user can choose to keep different versions of the same playlist such as one with changes from Spotify and one with changes from the app.
- Properties should be optimised for usability e.g. use a colour picker to choose colour, Spotify search for person, map for location, date picker for date. These pickers may also contain other tracks displayed e.g. to pick a date for a track, the user is provided a timeline containing all other playlist tracks and can drag the editing track to its position

Novelty Features:

- Able to import and export playlists to various other formats e.g. csv, Youtube etc.
- User feedback for our calculated properties e.g. for the ‘How accurate would you rate this description?’ for the colour ‘Red’ describing ‘Chicken Tenders by Dominic Fike’
- More complex sorting methods such as ‘relatedness’ between songs e.g. some tracks are designed to transition well into the next track in the album.