TrackBranch

TL;DR:

TrackBranch is a centralized database for music producers to organize and easily locate past projects based on project attributes such as song keys and BPM. The program allows producers to streamline their workflow, save time, and enhance creativity by removing the need to waste time searching for projects.

- Custom Notes: Create custom notes for each track to give context or provide ideas to add to later
- Filtering: Use project contents such as BPM, key, and name to filter all your projects
- Custom attributes: Create custom attributes to filter by
- Exported Match: Connects exported tracks and versions to the original project

Having produced over one hundred songs and created over two hundred projects in the past four years, I have wasted tens of hours trying to locate older songs to grab instruments and samples for current projects. I'm creating TrackBranch so that producers can spend more time actually producing and less time playing hide-and-seek with their past projects.

Use cases:

- Locate Projects: Easily locate projects using filters
- Specific instruments: Highlight noteworthy instruments that appear frequently in tracks that can easily direct you to specific projects
- Manage multi-version exports: Easily locate and connect different exports of the same project

Rules:

- A project contains the project file and filters.
- Each project can have zero to many notes, exports, and custom attributes
- The user interface can have zero to many projects
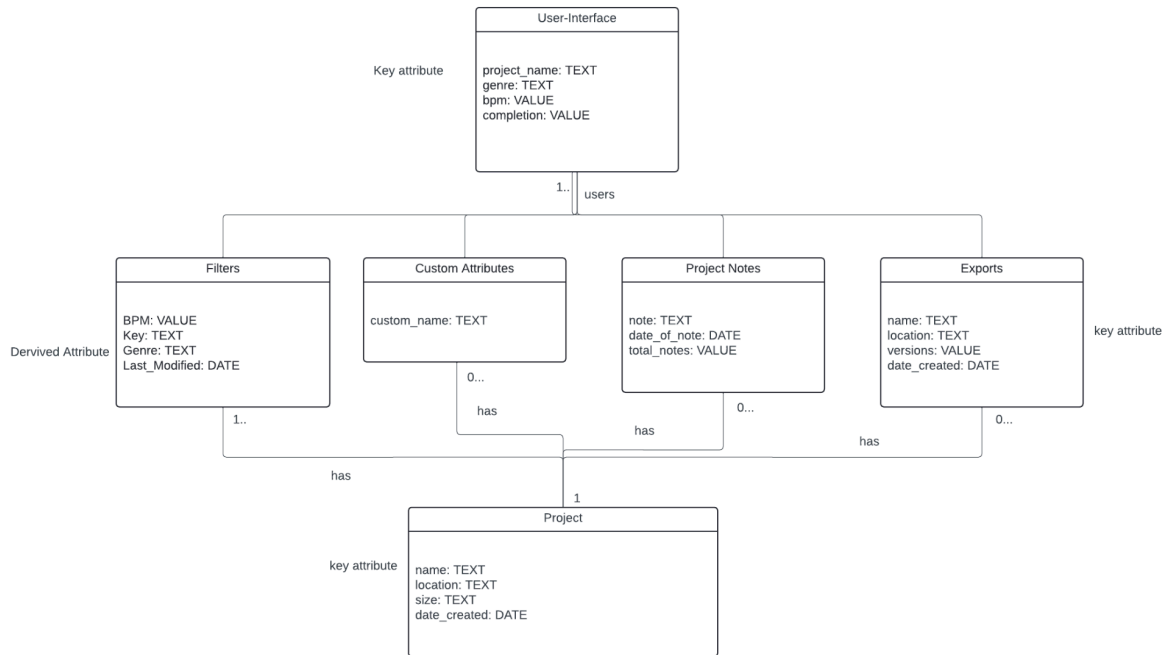- The project names must be unique
- The export names must be unique

Nouns:

- Projects
- Song Keys
- BPM
- Custom Notes
- Filtering
- Name
- Custom Attributes
- Exported Match
- Versions
- Specific Projects

Verbs:

- Organize
- Locate
- Streamline
- Create
- Connect
- Instruments
- Samples
- Highlight

Noun Groups:

- Projects
  - Song Keys
  - BPM
  - Name
  - Custom Attributes
  - Custom Notes
- Exported Track
  - Name
  - Versions
  - Specific Project

User-Interface

Key attribute

project_name: TEXT
genre: TEXT
bpm: VALUE
completion: VALUE

1.. users

Filters

Dervived Attribute

BPM: VALUE
Key: TEXT
Genre: TEXT
Last_Modified: DATE

1..

has

Custom Attributes

custom_name: TEXT

0...

has

Project Notes

note: TEXT
date_of_note: DATE
total_notes: VALUE

0...

has

Exports

name: TEXT
location: TEXT
versions: VALUE
date_created: DATE

key attribute

0...

has

1

Project

key attribute

name: TEXT
location: TEXT
size: TEXT
date_created: DATE

Redis implementation:

- Store project metadata like song keys, bpm, and date modified as Redis key values
- Cache custom notes for each project
- Cache exported track info like location, name, and date created
- Cache search history of projects