

# Music Library Tool

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# Description

A St. Louis-based radio station had an outdated platform for managing its collection of music. This application is a rebuilt version of the old application, with some new user-focused features.

It allows the station to effectively manage and keep track of the large volume of physical music that it owns.



# Features

- Anybody with a kdhx.org email address can log in, via Google Authentication
- Users can browse recent additions to the library, and save their favorites to their profile
- “Editors” can add new albums to the collection



# Planning - User Stories

- Users with KDHX.org emails can log in via Google Auth
- Users can see a list of recent library additions
- Users can filter library items based on artist, label, and other fields
- Users can view album details
- Logged-in users can save albums to a list



# Planning - DB and Models

Model classes / tables

- LibraryUser
- Album
- Artist
- RecordLabel
- MediaType (e.g. "CD" or "LP")
- Genre
- Location



# Technology Stack

- Python (v3)
- Django
- Jinja2 templates
- Postgres
- React
- Bootstrap



# Demo



# What I Learned

- React! (And Webpack, sort of)
- Class-based views in Django
- Group permissions in Django
- How to use Google Authentication



# What's Next

- Search
- Auto-generated weekly emails
- Label generation for cataloging albums on the shelf
- Data migration

