# Spotify Web App: Friendly Jam

#### **Purpose:**

To enhance the joint listening experience amongst peers and users by changing the shared queue feature to be more equitable.

#### **GOAL:**

Develop a web application that can rotate songs for shared listeners using the Spotify API.

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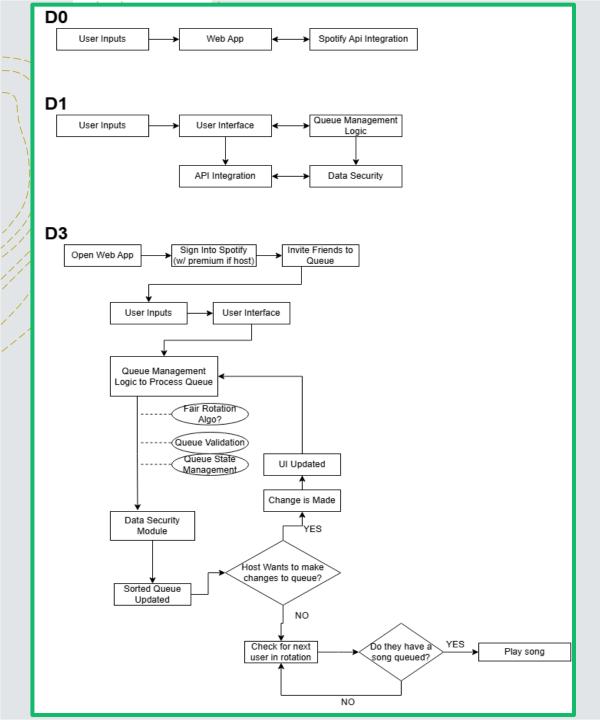
Advisor: TBD

# Project Abstract

+This project aims to create a web application that improves Spotify's group listening functionality by implementing fair queue management. Using the Spotify API, our solution will ensure all users in a shared session are equally represented in the song rotation. This approach will enhance user satisfaction and encourage a more enjoyable, balanced experience for group listening. Key aspects include API integration, queue logic design, and a user-friendly interface for selecting queue preferences. This project addresses technical, ethical, and legal constraints associated with fair queue management.

#### **User Stories**

- +1. "As a user, when I am listening to music with my friends I want everyone to be fairly represented in the songs that play"
- +2. "When using Spotify, I think it would be cool if there were different ways of sorting/randomizing queued songs"



#### **DIAGRAMS**

#### In these diagrams there are 4 things to pay attention to:

- **1.** Rectangular boxes indicate an action or an entity that can perform actions
- **2.** An arrow points towards another box and the direction indicates the flow of information
- **3.** Oval Shapes attached to a line indicate potential subprocesses that fall underneath the block PROCEEDING the ovals. They are attached via dashed lines
- **4.** Diamond shaped boxes indicate a conditional with two arrows leaving it. One arrow will have a 'YES' and the other a 'NO', indicating the answer to the proposed question in the box

## **Project Constraints**

- **+Economic**: This project relies on free and/or open-source tools due to budget limits for developers and consumers
- +**Professional**: As a portfolio project, this project should be developed with high-quality code.
- **+Ethical/Legal:** Ensure fair use of Spotify's API and protection of user data

## **Current Progress**

- **+Completed**: Project required tasks development, Research on API integration, Design UI for host and friends
- +In Progress: Queuing/sorting backend logic, ensuring reliable API calls with multiple users

#### **Expected Accomplishments By Term's End**

- +Logic for important backend is developed
  - + Everyone adding songs, queue being sorted properly, songs playing in proper order
- +UI for queue host and other members is drawn up and partially coded

### Division of Labor

41 will be working on all parts by myself as this is a solo project

### Expected Demo at Expo

- +I expect to showcase the system in full use.
- +I want to:
  - +Start a queue
  - +Let observers join and add songs
  - + Have a big screen showing the host's view of the app as I let some songs play and let the system do it's work