**Requirements Planning and Information Gathering**

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**Project Idea: Playlist Recommendation System**

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**Discussion Topics:**

1. How to obtain the data on which to base our system? May be difficult because many music systems block access to this data (due to the competitive nature of such things as well as user privacy)
2. What language to use? What types of machine learning libraries exist to allow for the best implementation of recommendation algorithms?
3. What type of algorithm to use? Popularity recommendations? Collaborative filtering?
4. Some nonfunctional requirements may be: security (keeping user data secure) and availability (in order to compete, system must be accessible).

**Potential User Scenarios:**

1. New User: Needs to be able to register with the system somehow, to be able to login in the future
2. Admin: Add/remove songs from the system
3. Admin: Perhaps ability to monitor system performance
4. User: Perhaps able to follow or subscribe to an artist, whose song will be displayed on the user’s page (display a random selection from that artist?)
5. User: Receive recommendations, based on history.

**Potential System Participants:**

1. Active user: registered with system, data (listening history) in database.
2. New user: not yet registered with the system, no data in the database
3. Admin: someone who will own the software, monitor it.

**Preliminary Diagramming:**

