## 

Spotify Clone app

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WrippleFOSS

Team#1

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# Overview

We are planning to create an android app which is a clone of Spotify app i.e. a Music Player with recommendation based ML model infused in it.

# Goals/Functionalities

1. Basic Music Player with Play/Pause,Forward Track,Previous Track,Random,Repeat Track,Playlists.
2. A user-login (profile of each user with all their playlists)
3. A feature to display album-art of each song and lyrics(on place of artwork).
4. A recommendation playlist of songs which gives a list of tracks which user doesn’t have in his/her playlist but are similar to the songs he listens to.

# Specifications

0.Looking for some UI inspirations(or shall we just copy Spotify’s UI and don’t waste time on this).

1.Java & XML base frontend to be build on Android Studio.

2.A content based recommendation Machine Learning model(just a starting point reference <https://www.youtube.com/watch?v=KmLJgq18r28> )(Tech-Python)

3.For Music streaming we could use Napster API (<https://developer.napster.com/>) but there is one issue,it is not available in India.(otherwise we could build a demo database with SQLite or Google Firebase)

4.The backend (music streaming+userlogin and other data) but done on Google Firebase.(<https://in.udacity.com/course/firebase-in-a-weekend-by-google-android--ud0352> Udacity 2 days course on Firebase for unfamiliar ones)

5. Lyrics of the Music playing . For demo we can show whole lyrics at once.

But if we get time , it would be better to sync lyrics with words playing at the time .

6. Splash screen for the app.

\*There is another possibility we could talk about,i.e. we could do this on web,using django/flask as frontend & for the backend stuff we could keep it same.

\*We Can also make Web app like Gaana and Spotify , **IF Time Allows** \*