Design Document Template

**September 27th 2017**

**OBJECTIVE**

Once a search has been performed, preview the song with a play button.

**BACKGROUND**

This feature is of importance when trying to create a playlist as if gives you a sample of what the song you are going to add to your custom playlist sounds like. The benefits of this functionality would be that, you can search for new songs and make sure that you have added the correct song to your custom playlist. A similar feature has been implemented in Apple Music and I have prioritized the preview song feature so that it may compete with other playlist management applications.

**TECHNICAL DESIGN**

**Preview Audio Sample**

In the Track component we will need to edit and add a button that once pressed will allow the user to hear a 30 second preview of the song.

In order to implement this feature you will need to update the Track component to target the endpoint requesting the preview\_url. To retrieve the audio sample, we will create a new method, **Spotify.getAudioSample()**, that hits the [https://api.spotify.com/v1/tracks/{id}](https://api.spotify.com/v1/tracks/%7bid%7d) endpoint. As we can see, this endpoint requires the track ID. In our current Spotify.search() method we already target the track id so we would add preview\_url to the object and then use that in our track component to add the preview button.

**CAVEATS**

**Video & Audio Preview**

Another alternate solution could be having video playing as well with the audio preview, so you could also see the video clip for the selected file. This feature is very hard on resources and could lead to slowing the search down.

**Search Speeds – Audio Only**

Having audio preview load when searching for a track would increase the load on the servers. This could reduce the speeds of searching and saving playlists.