Checkpoint and Presentation Design

What I’ve Accomplished so far:

* Successfully got credentials for the Spotify API, stored them in a secrets file to be used in other files
* Implemented multiple endpoints
  + Including: Get Playlist, Search Item (used for finding song ID from name), Audio Features, Get Track
* Created a Song Class with several attributes to be a blueprint for the song objects I will create
* Created a tree that I can add items to (song score and song id)
* Successfully cached all the songs from a playlist I retrieved using Get Playlist into a file called ‘all\_songs.json’

Presentation design

* I will be using Flask to create an interactive page
* I will be using a form for the interactions with my user
* The Form:

1. User is prompted to enter the URL of one of their playlists from Spotify
   1. My code in the background will parse out the playlist ID and use it to retrieve the playlist information
2. They will then be prompted to pick one of five ‘moods’ they are going for with their playlist, from ‘quiet’ to ‘clubbing’ using radio buttons
3. My code will score the playlist
   1. If the score lands in the predetermined range of the mood (that i’ve assigned)
      1. The dictionary api will display the definition of the word of the mood they chose eg. quiet: ‘without much activity or excitement’
   2. Else
      1. The program will search the tree for a song that has a similar score to the one they were looking for
         1. Will ask them if they want to add this artist to the playlist with a yes and no button
            1. If yes, will make a put request to add artist
            2. If no, program ends and displays the playlist name on the page along with the definition of the mood they were looking for