Project 2: (Modified) Design Charrette

Team Meetings:

1. Nabayan and Erin – Friday, March 29, 4PM
2. Amartya and Timothy – Thursday, March 28, 7 PM
3. Erin and Timothy – Friday, March 29, 2:30 PM
4. Nabayan and Amartya – Sunday, March 31, 5 PM

Things that will work well:

- Lots of different visualization techniques need to be used
- Ability to select a specific song and have the entries in the different visualizations highlight to display how the specific song compares to the rest of the data
- Start the visualization problems on a higher level and then break them down into smaller problems.
- The initial visualization should highlight the main theme of the dataset, i.e., the top 50 songs. Hence, they need to be listed along with their popularity.
- There needs to be a proper comparison of which genre houses the greatest number of songs, hence the radial graph should help with understanding that.
- Specifically looking at the artists will also help in providing further insights on whether their gender matters
- The correlation between the unique features of the songs will highlight and provide insight into if some singers dominate the list because of their fame or if the data agrees to what makes a song popular.

Things that will work poorly:

- Some types of visualizations (line graphs, bar charts, pie graphs) might be difficult to use in some scenarios depending on what the data looks like (if there is an entry that is much larger/smaller than the others, etc.)
- The initial idea was that upon selecting each song from the top 50 popular songs, it will show all the features of the songs but except for a few features most of them

will not make sense to the users. Hence, showing only the human readable features needs to be highlighted.

- The entire dataset has around 40 genres but displaying all of them at once would result in the data being very cluttered. As a result, we need to group the genres into a smaller number of parent genres. This will eventually help in much cleaner visualization.

Goals:

- An overall dashboard that is easy to parse and filter.
- Dashboard preferably has ways to filter data by song name, artist name, release date and genres/subgenres
- Ways to show summary statistics and metrics for individual songs, along with ways to compare singular songs with all other songs, or between songs of different genres or artists (comparative visualizations)
- Summary statistics and metrics will be based on fields from the dataset ('danceability,' 'valence,' 'energy' etc.): several kinds of appropriate visualizations will be used (bar charts, scatterplots, line graphs) as deemed appropriate.