Valency – Happy/ Sad

Energy – Energetic/ Calm

Acousticness – Acoustic/ Not acoustic

Instrumentalness – Instrumental/ Not instrumental

Danceability – Danceable/ Not danceable

Out of 100 (0 = 0, 1 = 100):

Less than 40

40 - 60

More than 60

How to determine mood: check for valance, if happy/sad appears exclude any options that don’t include it (if it does not appear exclude any options that include it), check for energy, if calm/energetic appears exclude any options that don’t include it from the previous list (if it does not appear exclude any options that include it), check for the attributes (ones in red) and look for an option in the list that has as many of the attributes as possible, if none has the attributes there should be only one option in the list, pick that option

Neutral in case both valence and energy are between 40 and 60

Happy – only valence above 60

Sad – only valence below 40

Calm – only energy below 40

Energetic – only energy above 60

Exuberance

Happy + Energetic

Lively

Happy + Energetic + Danceable

Joyful

Happy + Danceable (no energy)

Contentment

Happy + Calm

Relaxation

Happy + Calm + Acoustic or/and Instrumental

Frantic

Sad + Energetic (even if it presents any of the attributes)

Depressing

Calm + Sad

Melancholic

Calm + Sad + Acoustic or/and Instrumental

For Concentration

Calm + Acoustic or/and Instrumental (not happy nor sad)

Motivational

Energetic + Acoustic or/and Instrumental (not happy nor sad)

Data display:

Display all the data stored about them

Mood for a period of time (x days)

How to:

* Calculate the mean value for all data types (valence, energy, danceability, acousticness, instrumental) over the last x days and display them on the screen.
* Use these values to calculate their x days’ mood. ! this does not represent the mood they generally have

The user will see:

* Average of the data used
* What mood this data gives

Songs they have listened to:

* The user will have a list with all the songs they listened to – they will be able to see the mood of the song as well (this will help them find songs they liked in the past and pick the song for the right mood). The list can be sorted by picking a specific mood or attribute (these are all the greens and reds above ^) e.g. the user might want to see all happy songs, or all frantic songs, or all instrumental songs, and so on
* Optional: clicking on a song in the list will open a song page with all the details about the song, the data values, title, artist, duration, number of times they listened to it, the mood of the song, etc.
* Optional: line diagram, used to display how many times a person listened to one song compared to others

Their music/mood calendar:

* The user will have a calendar and under each date there will be all the song they listened to on that day, the amount of time they listened to music to and also the mood of the day, this will be the mode of the moods (i.e. the mood that occurred the most on that day, if some moods occurred in the same amount, display all of them)

Mood percentage

* For a given period of time, count the number of times a mood has appeared (i.e. a song with the specific mood), and the total number of songs considered. Calculate the percentage of each mood and display it in a pie chart for the user.