Executive summary

Imagine a world where you find a song in a second that resonates with your mood. It is extremely frustrating to find a perfect track by sifting through countless playlists with as many songs in them. An average person wastes 1 minute to find the right track of 3:30 minutes. Our project challenges the foundation of all the current music apps which organise their content by genres.

Our new application begins with 2-month free access to premium experience for the user to evaluate its worth. Following will be the main features that our innovative application will provide:

* Songs are searched through the algorithm of mood, not genre.
* A matching track is put into the search bar and a list generates which matches the vibe of that song.
* Introduces making separate playlists for these songs as per the user.
* A premium experience, at reasonable price, with options of downloading and no interruptions by adds.

Feedback by company employees’ friends and relatives provides excellent response to the application as they explain how easy and quicky it is to find a song that sets them in the right mood. They highlighted the time saving as the most lucrative advantage, while the interface had its problems. However, as the development of the project progresses, significant changes will continue to be made in order to improve the user experience.

Introduction:

The project, MusiVibe, is application-development project. This project will enlist all the functional as well as non-functional requirements of the application. There will be four use case diagrams which will describe the corresponding functional requirement since use case diagramming is used to model the functionality of the system. A class diagram will also show the basic structure of object classes and their internal relationships within the system. Then, a thorough description of one use case diagram and a sequence diagram will be included to provide extensive details of the specific case. Interface prototypes will also be developed to give an idea how different windows will appear to the user. Moreover, relational database tables normalised to 3NF form will be constructed too, to delineate how data is stored and databases are managed.

Requirements:

Functional Requirements:

1. When the user enters the name of the song, the system reverts a list of songs matching the vibe of the song.
2. When the user enters the vibe of the song like melancholy or chill, the system reverts corresponding playlists.
3. The application’s server shall be daily updated with new as well as old tracks.
4. Two extensions of application: free and premium. The latter has to be bough through monthly or yearly subscription.

Non-functional Requirements:

1. The buttons in the app will be bigger enough to be visible and clickable.
2. The colors will be dull to give an aesthetic appearance.
3. The application must function 24/7.
4. The response time should not exceed two seconds.
5. Safe installation for the user with built-in cyber protection.