**Project Abstract: ClutchTunes**

**Team 51**

ClutchTunes is about to bridge the gap between a party DJ and the attendees. If you have ever hated a soundtrack and wished to change the notion of a playlist at your party, ClutchTunes can do just that. This is an Android Application that offers unique features to provide an interactive experience of sharing music at any party. While incorporating YouTube, users are capable of influencing any playlist that is found within their current GPS coordinates. As the features differ between a party host and a party attendee, the party attendee holds the power to conduct the influencing of the playlist by liking or disliking songs in the queue. This is an application that puts a strong emphasis on creating a party that is not just controlled by the decisive DJ, but all party-attendees as well.

There are two different sides to ClutchTunes that make it one complex, functioning application. To begin the app journey, there must be a party host. Any user can be a host to a party, all that is needed is ClutchTunes itself. To create a party the creator will name the party, choose the party demographics (which verifies whether the party can include 18+ videos under YouTube’s policies), select the party radius to determine the permitted range of the attendee’s GPS coordinates, and select whether they would like the party to be private or public by setting a party password. If the creator wishes to have a party password, the creator will be directed to the enter password protection page. That password and party information can then be sent via the screenshot option to attendees to ensure a private party with no outside interruptions. If the creator wishes to not enable password protection, the app will direct the user directly to the start party page, the creator becomes a party host, and all that is needed is attendees to begin the party by adding songs.

Now the other side of ClutchTunes begins. As an attendee of a party, the user will open “Party Search Mode” in the menu bar. If the hosts created party GPS coordinates is within range of the attendee’s GPS coordinates, the created party will display in the “Party Search Mode” list. Because it is a private party, the attendee will then enter the password that was notified to all invited attendees. Now, the attendee can search YouTube via ClutchTunes by clicking “ADD VIDEO TO QUEUE”. Any number of songs can now be added. Meanwhile, other attendees are permitted to add songs as well.

Because the attendee has now entered the party and added songs to the Queue, the host can then choose “FETCH VIDEO” on their host screen and the playlist will begin. The video *must* be displayed on the host phone throughout the entirety of the party due to YouTube’s video policies. On the attendee side of the phone, they have the capability to like, dislike, or love a song in the queue. This is where users can influence the playlist. If the amount of likes on a song outweigh the dislikes, that song on the queue will move up into the playlist. If the amount of dislikes outweighs the likes, that song will move down on the playlist. Meanwhile, the attendee can refresh the playlist to see the current changes based on the like and dislikes. If the attendee loves a song, it will be displayed on their profile page for future reference. They also have the option to watch that loved video later on, delete it, or share the video through text message to other devices.

Once the host wishes to end the party, they will close the displayed video and click “END PARTY”. The host must then enter their account password to officially end the party and they will be directed back to their profile page. ClutchTunes also provides general features such as edit their profile, add profile pictures, recover their account, and create account.