*Overview*

*This application is for the use of Music Angel Investors around the world to search for popular music. This can also be useful for big labels around the world to search and discover music for investment purposes.*

# INTRODUCTION

The main purpose of this software is to enable easy discovery of music which is likely to become popular so that potential investors can find and make early investments for business purposes.

## 2 System Overview

It’s a java based web application. For user interface we have used HTML, Javascript, JSon and other Java libraries. We deployed the application on our laptop using Tomcat. We have used the database provided to us for Database class CS:541 for doing our analysis.

## 3 Functionality

**1. Trend Graph:** Our main feature is Song Popularity prediction. We are taking the crawls from different date to predict future popularity of the song. We are using Linear Regression with Least squares Estimation to predict the popularity of song. If a song is increasing in popularity . We are creating a filter using genres and year, then based on views the client and see the popular songs and the songs which are more likely to become popular.

2. **Country Genre Relations:** We are also finding a correlation between songs and different Genres, the year of the song and songCountry. This will help to find out which type of songs are more popular in each country. It will also help in finding out the relation between the song types which have been popular over the years.

**3. Genre Decade:** We are mapping the relation between genres and the decade. This helps us find the link between different genres and their popularity over the years.

**4. Tree Map:** The tree map gives a visual representation of songs types which are popular. We can order tree maps based on country or genres or other attributes.

**5. Map visualization:** We are mapping each country with the song types that are popular in the country.

**3. PROJECT REFERENCES**