

SOFE 3490

# **Software Project Management**

Laboratory 2

## **Team**

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## **Topic**

We have chosen the Music Hub Project. The goal of this project is to create a distribution platform where verified artists can publish their music and get paid royalty fees based on the number of listens per month. The platform will allow users to choose the type of account they wish to hold, premium or free, where premium members get the added benefits of listening to music advertisement free and be able to listen offline. The platform will support multiple genres of music and each artist will have his/her own unique license.

The problem that we are addressing with this project is that many new artists have trouble distributing their work and that many label companies will take advantage of them for cheap. Additionally, piracy is further cutting into their already low profit by providing users with unlimited access to any music they want

With this project, we hope to accomplish 2 things. First, we aim to create a platform where we consolidate all music genres and artists into one place, reducing the need for piracy through availability. Second, we want to create a place where the new artist can upload their songs for the world to listen to, and be paid their royalties fairly regardless of their experience in the field. By doing this, we can foster new talent within the music community, and encourage a new generation of artists.

## **Objectives**

- Create a platform that is simple and allows the artist to easily upload tracks to the platform, as well as track their earnings at any time.
- The platform has a database that keeps track of tracks, artists, and the required data for analytical purposes.
- The platform database is not local on any device, but tracks can be stored locally for repeated playback offline.
- Organize the music in a way that allows for the user to easily find the music or genre of music they want to listen to.
- Do not overspend the budget that we have been given by the investor

- Allow for the system to suggest music of a similar genre or to suggest similar genres to the ones that the user is listening to.
- Allow for a system that lets the user pay a fee to access a premium version of the platform that has additional features.
- Allow for a multi-platform system available of various devices
- Ensure that downloadable content cannot be transferred off the platform

## **Measures of Success**

- Greater than 80% positive feedback
  - From artists and listeners
- Greater than 99% server uptime
- Greater than 99% application stability
- The platform can be released within the required schedule
- The platform development is completed within the allowed budget
- The platform meets all requirements agreed on set by the investor
- Stakeholder requirements are met or were reworked to the stakeholder's satisfaction
- The algorithm generates successful recommendations 80% of the time
- The platform allows artists to properly add their own tracks to the platform and track the performance and earnings of their music.
- The platform allows users to listen to tracks, by selecting playlists, genres, or artists.
- The platform is available on multiple platforms
- Artist visibility, playback and advertisement wise, can be measured to be at an increase
- Includes a feature for user feedback on favourite tracks
- Mathematical guarantee of data encryption for combating anti-piracy

## **Infrastructure**

- Distributed database and application servers
  - Allow for greater redundancy, performance
- Application, web and/or mobile
- Server
  - Optimized for data distribution across a large area to many concurrent users
  - Would need to have database storage for all the music and data
  - Would need to be able to either handle accepting and making payments securely or be linked with a secure payment platform
  - Accurate recommendation algorithm
- Application
  - Displays the track information
  - Allows the playback of audio

- Allows premium offline listening
- Piracy prevention modules
- Displays recommendations