## Chapter 1: Introduction

### Background

The company Avinpro has being doing a process called distribution. This process is done every six months and takes quite some time to prepare for it and be able to do it, the goal of the distribution is to:

* Group all the songs performed by artists and their producers.
* Count the number of times each song was played on the radio or establishment.
* Distribute the royalties collected depending of the number of time each of this song was played.
* Produce a report for each artist/producer so they can see how much of this money should be going to them.

Currently the problem that they have showed is that, some of the reports come late as there are a lot of songs to process and the records are constantly changing. This is because every day these songs are played so radio companies update their records after a certain amount of time these records are sent to Avinpro so they can be added to their system. This then will change the amount of royalties an artist/producer will receive for their song.

There are errors made by the company’s workers i.e. Some artist/producers don’t get paid properly, this is a result of calculating the total amount of time played wrong, making typing errors without validation or the user having to confirm the updates made.

### The client

The client is Mr. Hugo Esparragoza who is the general manager and the IT chief of the company. As mention before section 1.1, this user is taking an extremely long time to finish the process as he is the one that has finish up and calculate the amounts needed to be paid to each artist/producer.

I have come to him to offer help and he has asked me to create a managing system for this kind of information and transactions, that he could keep track and update and provide features that can help him produce more accurate reports in a shorter amount of time.

### Justification of the project and solutions

This project aims to reduce the time this company takes to prepare and do the distribution and to correctly create a custom validated report for each artist/producer. By using a Java database management system. It will include features that will help the user finish the process quicker such as in built function that will update the amount of money that artists/ producers based on the amount of times the song where played in a period of time.

The solution this project offers will include an interface that manages a database that contains all the information inside of all the records the company has. Can have functionalities will be added as the software develops and if the amount of time is sufficient, a possible idea for this added functionality would be store artist/producer emails and as soon as the process is finished they will receive their report of how much they have earned in royalties.

### Project Scope

The main objectives of the project are:

1. Create a fully functional database that will store, edit and delete the information required by the company to produce the reports, this database should able to hold at least 200000 records of artists. The database will be secured and regularly backed up to secure the data in case off loss of data or damage of the same one.
2. To design and build an interface able to deal with the functionality the user needs to fulfil the process of the Distribution. The minimum requirement is to be able to insert, update and delete data from the database.
3. To stablish a connection between the interface and the database using in this case a MySQL database management system.

### Report Schedule

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| **Assessment deadlines** | **Return date** |
| Proposal  Early prototype demo  Final report  Viva | 04/11/2016  06/01/17  15/05/2017  26/05/17 |