# Chapter 2: Literature Review

## 2.1 Introduction

The purpose of this project is to introduce the company of Avinpro a more updated way to do the process of Distribution, this process consist if gathering information about the number of times songs were played in a country. Depending the amount of times each song was played the artists/producers that took part on the creation of that song will receive money (Royalties).

The project will present and approach which is managing a database using java programming language as an interface. This will make the agglomeration of data more presentable i.e. Filtering, validation, no repetition if data. Selecting information to create a report even more understandable i.e. Bespoke user interface.

## 2.2 Music Licensees

A very large number of entities, from neighbourhood bars to broadcast radio stations, “perform” copyrighted musical works for the public. Such entities must pay royalties to copyright holders. The types of royalty payments owed and the way those payments are determined vary considerably, depending mainly upon the way an entity is treated under copyright law.

## 2.3 Royalties

A royalty is a payment to an owner for the use of property, especially patents, copyrighted works, franchises or natural resources. They work in the following way. The percentage agreed on the money made as a percentage gross or net revenues coming from the use of an asset this case the song.

### 2.3 Build Requirements

The tools used to create the new system (Database and graphical user interface) are mentioned and discussed below.

### 2.3.1 Java Language

Java is a general-purpose [computer programming language](https://en.wikipedia.org/wiki/Programming_language) that is [concurrent](https://en.wikipedia.org/wiki/Concurrent_computing), [class-based](https://en.wikipedia.org/wiki/Class-based_programming), [object-oriented](https://en.wikipedia.org/wiki/Object-oriented_programming), and specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "[write once, run anywhere](https://en.wikipedia.org/wiki/Write_once,_run_anywhere)" (WORA), meaning that [compiled](https://en.wikipedia.org/wiki/Compiler) Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to [bytecode](https://en.wikipedia.org/wiki/Java_bytecode) that can run on any [Java virtual machine](https://en.wikipedia.org/wiki/Java_virtual_machine) (JVM) regardless of [computer architecture](https://en.wikipedia.org/wiki/Computer_architecture).

### 2.3.2 MySQL Database

This is an [open-source](https://en.wikipedia.org/wiki/Open-source) [relational database management system](https://en.wikipedia.org/wiki/Relational_database_management_system) (RDBMS). Its name is a combination of "My", the name of co-founder [Michael Widenius](https://en.wikipedia.org/wiki/Michael_Widenius)' daughter, and "[SQL](https://en.wikipedia.org/wiki/SQL)", the abbreviation for [Structured Query Language](https://en.wikipedia.org/wiki/Structured_Query_Language). The MySQL development project has made its [source code](https://en.wikipedia.org/wiki/Source_code) available under the terms of the [GNU General Public License](https://en.wikipedia.org/wiki/GNU_General_Public_License), as well as under a variety of [proprietary](https://en.wikipedia.org/wiki/Proprietary_software) agreements. MySQL was owned and sponsored by a single [for-profit](https://en.wikipedia.org/wiki/Business) firm, the [Swedish](https://en.wikipedia.org/wiki/Sweden) company [MySQL AB](https://en.wikipedia.org/wiki/MySQL_AB), now owned by [Oracle Corporation](https://en.wikipedia.org/wiki/Oracle_Corporation). For proprietary use, several paid editions are available, and offer additional functionality.

### 2.3.3 IntelliJ Integrated Development Environment (IDE)

IntelliJ is a [Java](https://en.wikipedia.org/wiki/Java_(programming_language)) [integrated development environment](https://en.wikipedia.org/wiki/Integrated_development_environment) (IDE) for developing computer software. It is developed by [JetBrains](https://en.wikipedia.org/wiki/JetBrains) (formerly known as IntelliJ), and is available as an [Apache 2 Licensed](https://en.wikipedia.org/wiki/Apache_2_License) community edition, and in a [proprietary](https://en.wikipedia.org/wiki/Proprietary_software) commercial edition. Both can be used for commercial development

### 2.3.4 StarUML

StarUML is a free source software tool which allows user to draw software modelling for the database and websites etc.

### 2.3.5 MySQL Workbench

My SQL Workbench is a visual [database that is used as a design](https://en.wikipedia.org/wiki/Database_design) tool that integrates [SQL](https://en.wikipedia.org/wiki/SQL) d[evelopment](https://en.wikipedia.org/wiki/Software_development), [administration](https://en.wikipedia.org/wiki/Database_administration_and_automation), [database design](https://en.wikipedia.org/wiki/Database_design), creation and maintenance into a single [integrated development environment](https://en.wikipedia.org/wiki/Integrated_development_environment) for the [MySQL](https://en.wikipedia.org/wiki/MySQL) database system.