

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 71

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia.

Domain

The domain of our application is the music industry and more specifically how a record label operates. The application is used to show the business and creative processes of a record label with a focus on sales information.

In particular, it keeps record of contracts that record labels have with artists including the type of contract, length, and obligations. The system ensures that both parties fulfill their contractual obligations such as releasing a set number of albums, or organizing promotional events. It also oversees the music production process and those involved. It keeps track of artists, producers, and other collaborators that work on specific projects. Of those projects, the system keeps track of sales data of albums and songs for future project planning. It also records how record labels organize events such as concerts and the revenue generated from such by tracking tickets sold and ticket pricing.

Database Specifications

With the sales information from this database, a record label can quickly determine the commercial success of a producer, artist, album, or song. With concrete numbers and a way for the label to quickly identify all the collaborators for a concert or album that has previously been financially successful, the label can forecast and invest in personnel that have previously made profit. This can also be used to ensure that contractual obligations with artists and producers are fulfilled within a certain timeline. Planning and scheduling future concerts will be done with more ease – dates and venues often affect sales.

Application Platform

We plan on using Postgres due to its open-source nature and excellent performance. Our primary language will be Javascript, with React.js on the frontend, and Express and Node.js on the backend.

Comments

1. ISRC (International Standard Recording Code): This is a unique identifier for each recording of a song released (including remixes and live performances). We will be using this as a primary key to identify a song.
2. UPC (Universal Product Code): This is a barcode that is unique for each album. It is used to track the number of units sold physically and digitally.
3. For our application, singles are songs from an album that are released ahead of time and sold separately prior to the release of the album.

