**Project Title:** Meta Music Database System

**Team Names:**

**Kinjal Keshri**

**Naga Deepak Pagadala**

**Vedant** Tapadia

**Summary:**   
The Meta Music Database System aims to create a unified platform that integrates and analyses data from major music streaming services like Spotify and YouTube. Its core objective is to provide a comprehensive analysis of music trends, listening behaviours, and performance metrics across these platforms, thereby offering a holistic view of the global music landscape.

Using a dataset from Kaggle containing records of top songs from Spotify and YouTube, we aim to create a database application that enhances music discovery for users, while also providing valuable insights for artists, record labels, and industry professionals. By developing a user-friendly interface equipped with data visualization tools, the Meta Music Database System promises to be a resource for exploring music data, spotting trends, and gaining predictive insights.

**Objectives**:

* To create a database that efficiently stores and manages data related to top music songs from Spotify and YouTube.
* To perform exploratory data analysis (EDA) on the dataset to gain insights into the music industry trends, artist popularity, and song characteristics.
* To provide a user-friendly interface for querying and analyzing the music dataset, enabling users to retrieve information based on various criteria such as artist, song, album, and attributes like danceability and energy.
* To support decision-making processes for music industry professionals, marketing teams, and music enthusiasts by providing valuable insights derived from the data.

The Meta Music Database System addresses the challenge of data and analytics across music streaming platforms. By integrating data from multiple sources, it provides a unified view of the music landscape, enabling better decision-making for artists, record labels, and marketers. For consumers, it enhances music discovery ultimately enriching the listening experience.

**Usefulness**: State as clearly as possible why your database will be useful and how the interactive interface will be beneficial.

* It will benefit marketing teams by providing insights into consumer preferences, allowing them to tailor marketing campaigns and promotions effectively.
* Music enthusiasts can use the database to discover trending songs, explore new artists, and analyze song characteristics to find music that matches their preferences.
* The interactive interface will offer functionalities such as search, filter, and visualization tools to facilitate easy exploration and analysis of the music dataset.

Make sure to answer the following questions: Are there any similar or equivalent databases out here?  If so, what are they and how is yours different?

* While there may be similar databases available like Spotify, our database stands out with its focus on top music songs from both Spotify and YouTube, providing a comprehensive view of popular music across different platforms.

Which user group is your database application targeting?

* The database application targets a wide range of users, including music industry professionals, marketing teams and music enthusiasts, making it versatile and valuable across various domains.

**Dataset:**

Describe dataset origin (who collected, when, and for what purpose)

* Dataset was collected from Kaggle. The team collaborated to find the dataset on 3/10/2024. The dataset was collected to efficiently store and manage data related to top music songs from Spotify and YouTube.

[Link:](https://www.kaggle.com/code/anzarwani2/spotify-youtube-top-music-songs-eda/input) <https://www.kaggle.com/code/anzarwani2/spotify-youtube-top-music-songs-eda/input>

Coverage

TEMPORAL COVERAGE START DATE

02/06/2023

TEMPORAL COVERAGE END DATE

02/06/2023

Salvatore Rastelli (Owner)

Marco Guarisco (Editor)

Marco Sallustio (Editor)

**Group Contribution (10pts)**

* Provide each team member's contribution

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| --- | --- | --- |
| Name | Tasks | Average Time Spent (per milestone) |
| Kinjal Keshri | 1. Topic Search, Database selection, Objective | ~ 2 hours |
| Naga Deepak Pagadala | 1. Summary, Objective | ~ 1 hour |
| Vedant Tapadia | 1. Usefulness | ~ 1 hour |

**Proof Reading (10pts)**

* Make sure it is free from spelling mistakes - consider it as your development proposal for your company

|  |
| --- |
| Do not copy and reuse existing projects (from Kaggle, github etc). The penalty will apply (see students handbook on academic dishonesty). Do not use existing databases, you must work with raw flat files (excel, csv) |

Source: (adapted from MCS-DS 411)

* It is free from spelling mistakes