

1. Introduction

1.1. Problem Statement

Due to the rapid development of the music industry, the demand to listen to music every time, everywhere, has risen. Each person has their own tastes in music; therefore, they tend to create one unique playlist that has their favorite songs to listen to. To meet those demands and solve the problem of time-wasting to listen to music, our group has developed Canary Music Streaming Service, a product that gives the service of listening to music every time you want.

1.2. Solution Proposal

Our online music streaming website (project) will be named Canary Music Streaming Service. Canary stands for canary bird, which is known for its amazing voice. Therefore, it fits perfectly with our purposes. This website allows people to search for songs or albums, let them listen to songs of all genres, and view charts. Being a member (after login), people can add a song to their favorites and create personal playlists. On the other hand, being an admin gives you access to add songs and especially manage the database. It also gives admin new recommendations due to data tracking.

2. Target user and environments

2.1. Users

Being a music player, the application aims to provide a seamless experience listening to and discovering songs and albums. Consequently, three different user types are being considered:

- **Guests:** Users who do not need to use their account to log in. They can just listen to songs and view the charts along with the ratings and reviews.
- **Members** are those who have registered for their account. They now can create playlists, star songs, and leave ratings and notes.

- **Admins:** employees in charge of adding new music and playlists and addressing consumer complaints.

2.2. Environments

The application will be browser-based and can be accessed via the Internet as a website can be shared across platforms.

3. Key features

- Sign-in/Sign-up
 - Sign-in: Entering a username and password to verify the stored account.
 - Sign-up: Providing the authentication information, consisting of username, email, and password, to register a new account.
- Search for songs/albums
 - Search using the songs'/albums' name or the artist's name.
 - Can be filtered through some of the attribute such as the genre, the release year, ...
- Listen to songs
 - Play/Pause song.
 - Loop/Shuffle songs.
 - Background music.
- View charts
 - The top songs (albums) that currently hit based on the rating and the trend of its attention.
 - The recent release of songs and albums.
- Create personal playlists
 - Allow the user to gather songs based on the vibe and mood to put up an ultimate best-fit playlist that is one and only in the world.
- Star songs
 - Mark songs that will be pinned for ease of access.
- Add songs/albums

- Upload new songs to the application database.
 - Create albums from songs.
- Data tracking
 - Analyze website traffic and behavior.
 - The top search and top listen-to songs of the week.
- Manage database
 - Manage accounts information: view the number of accounts, delete
 - Manage songs information: update its metadata as the artist, description, ... or remove it from the archive.

Capabilities	Guests	Members	Admins
<i>Sign-in/Sign-up</i>	✓	✓	✓
<i>Search for songs/albums</i>	✓	✓	✓
<i>Listen to songs</i>	✓	✓	✓
<i>View charts</i>	✓	✓	✓
<i>Create personal playlists</i>	✗	✓	✓
<i>Star songs</i>	✗	✓	✓
<i>Add songs/albums</i>	✗	✗	✓
<i>Data tracking</i>	✗	✗	✓
<i>Manage the database</i>	✗	✗	✓