Vanier College
Computer Science Department

User Manual

Fairoz Aly and Kaci Luu
420-331-VA : Application Development (Sec-01)
Teacher: Syed Naseem Afzal
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Introduction:

TunedIn is a Music Player application that offers a lightweight and easy-to-use desktop app providing an enjoyable experience for managing and playing local audio files. It will deliver essential features such as playlist creation, basic audio controls, play/pause/skip/repeat buttons and album art display, all in a clean and straightforward program. The goal of this application is to give the user full control over their digital music library, offering a private, efficient, and pleasant alternative without any inconvenience. In other words, we want to refocus the experience on the music itself by offering a tool that is both powerful for organization and simple for everyday listening.
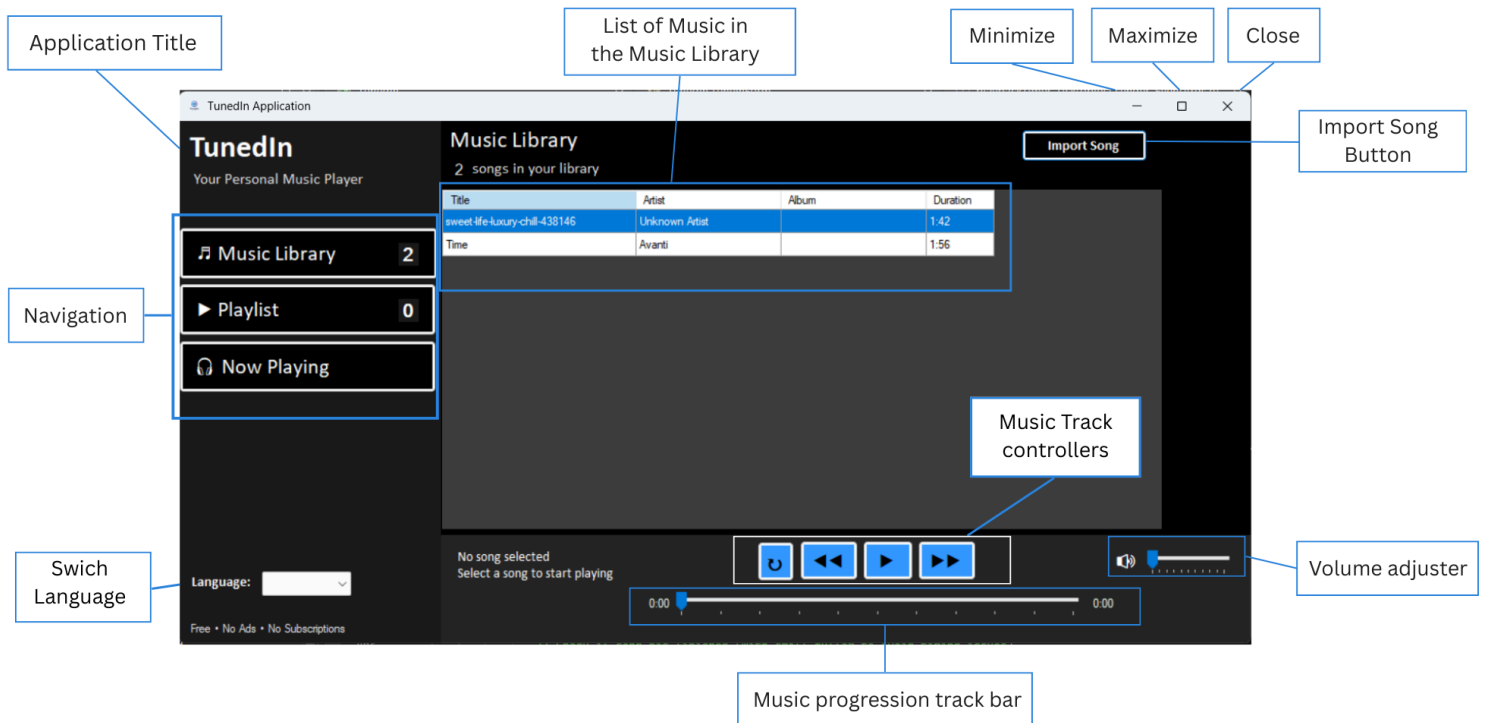
Setup:

1. Download the TunedIn ZIP folder containing the .sln file and the software folder
2. Extract all in your File Explorer browser
3. Open the .sln file in Visual Studio 2022
4. Click the run button ▶ to run the application

Interactive Features:

Many music players these days are usually bloated with ads, forced subscriptions, and constant internet requirements like Spotify, Apple Music, YouTube Music, etc. This situation makes it clear that many users, including ourselves, need a straightforward, fast, free and appealing program to play their personal music libraries. That is why the TunedIn app is the perfect app to deliver a lightweight music player to users that prioritizes efficiency, simplicity, and privacy. Here is some major features of this application:

- The **Music Playback and Controls** to manage play, pause, track navigation, volume, and repeat functions.
- The **Music Library Management** to import, store, and organize songs with SQLite and TagLib
- The **Application State and Culture Features** to switch views and support multiple languages through I18n.

Graphical User Interface:

Application Title

List of Music in the Music Library

Minimize

Maximize

Close

Import Song Button

Navigation

Music Track controllers

Swich Language

Volume adjuster
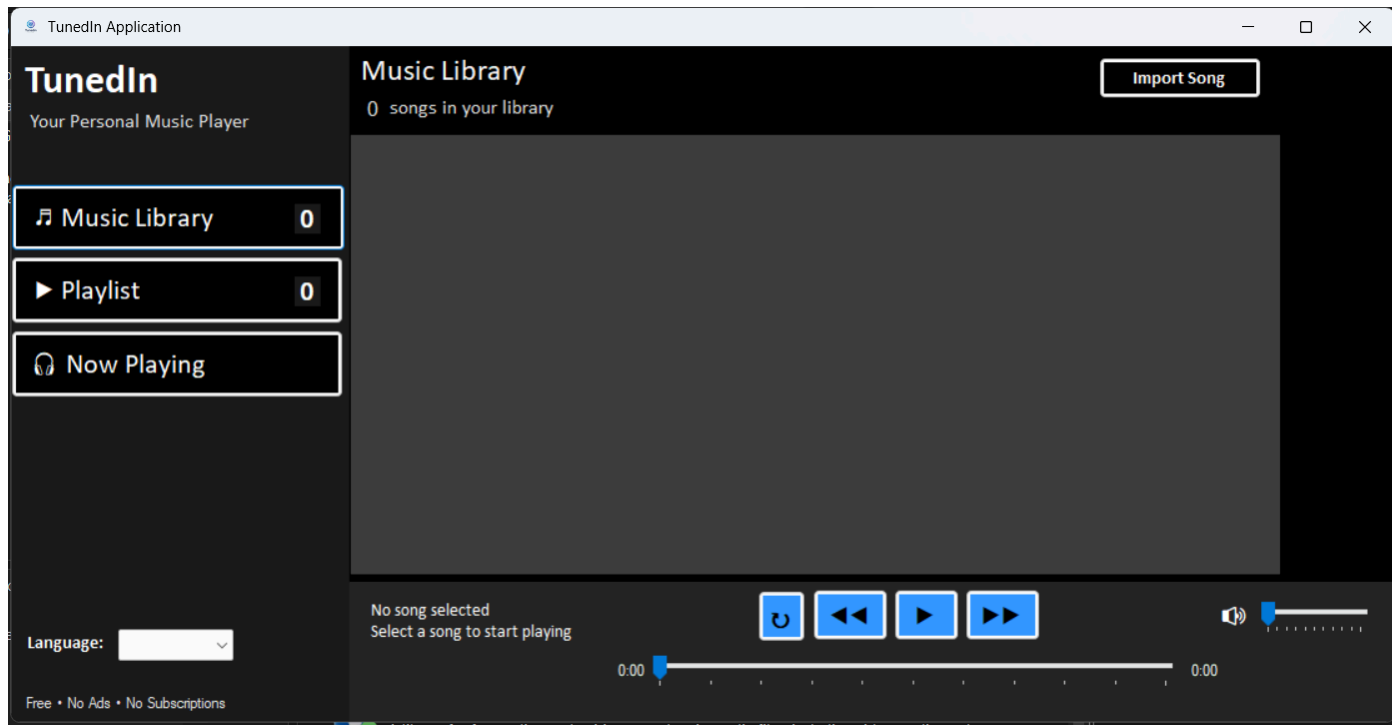
Music progression track bar

Basic UI:

This application's UI, programmed in C# language, uses a three-panel layout for easy and clean navigation. The sidebar hosts core functions with buttons for Music library, Playlist and Now Playing. The central Content Panel dynamically displays the selected view, such as the music library, playlist details or the current music information. At the bottom, the player control panel provides playback controls(play/pause, previous, nest,repeat), visual feedback (volume and progress bars), and track music information(title and artist names), ensuring users always know what music is playing.
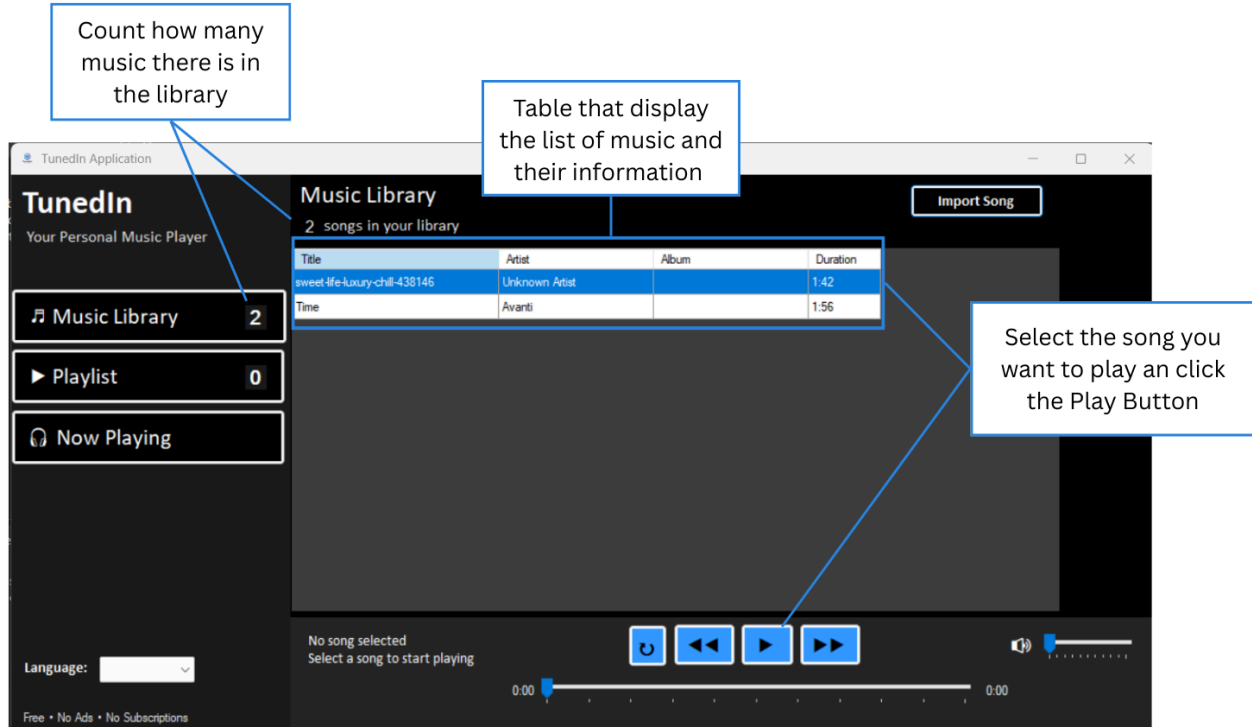
Application Features:

Music Library Panel :

       This is the panel that will list the songs that the user imported. By default, it is the first page that will appear when the user starts to run the app.
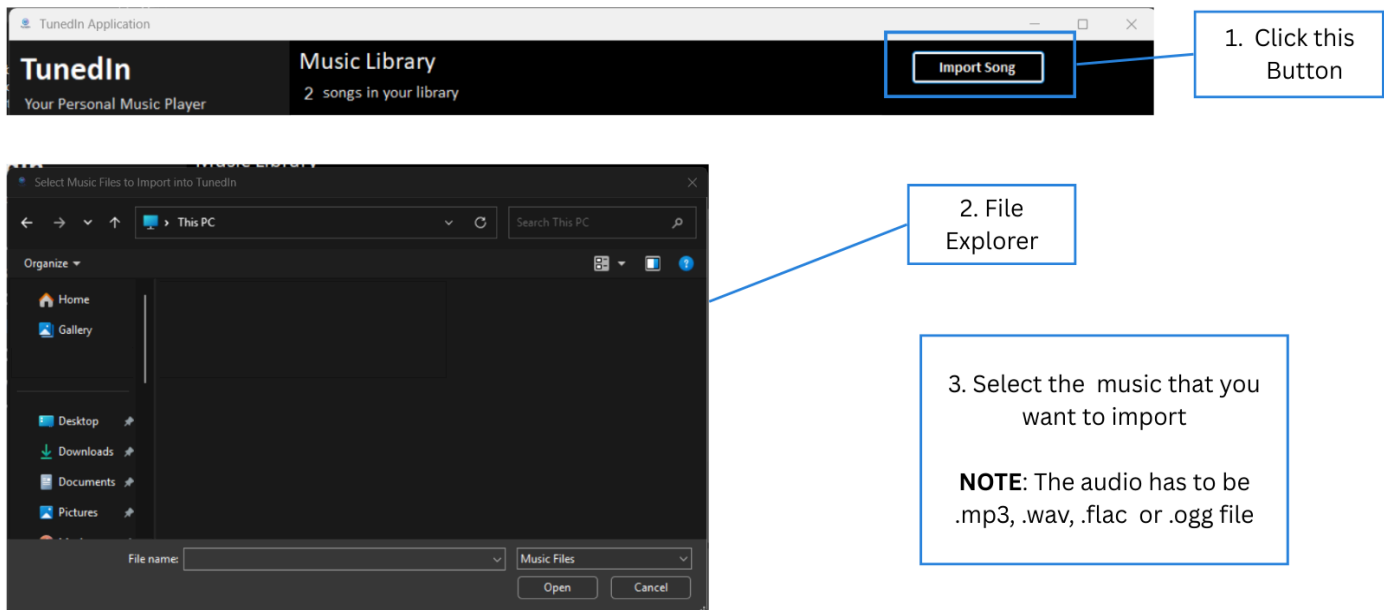
- Initial Music Library Panel without any imported music

- Music Library Panel with imported music.

Count how many music there is in the library

Table that display the list of music and their information

Select the song you want to play an click the Play Button

To import a song from your File Explorer Browser click the Import button in the top-right corner of the Music Library Panel.

1. Click this Button

2. File Explorer

3. Select the music that you want to import

NOTE: The audio has to be .mp3, .wav, .flac or .ogg file

Playlist Panel:

This panel is to allow the user to create custom lists of songs for different moods. The user can customize the name of their playlists and add or remove songs from them.To get access to the Playlist Panel, the user has to click Playlist Button in the navigation sidebar.
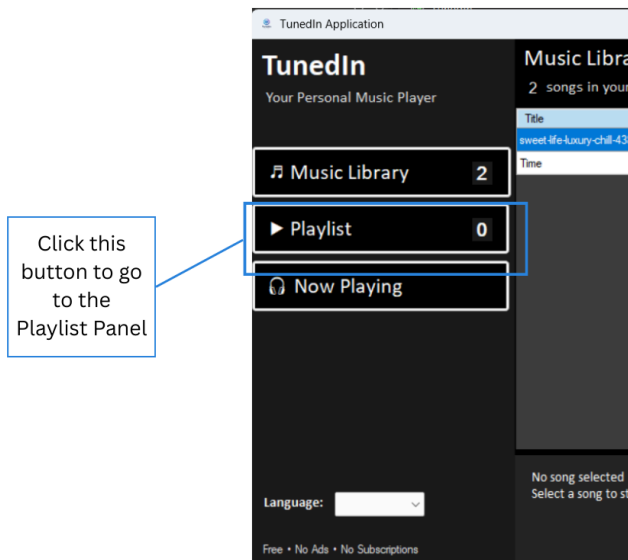
- Initial Playlist panel without any playlist:
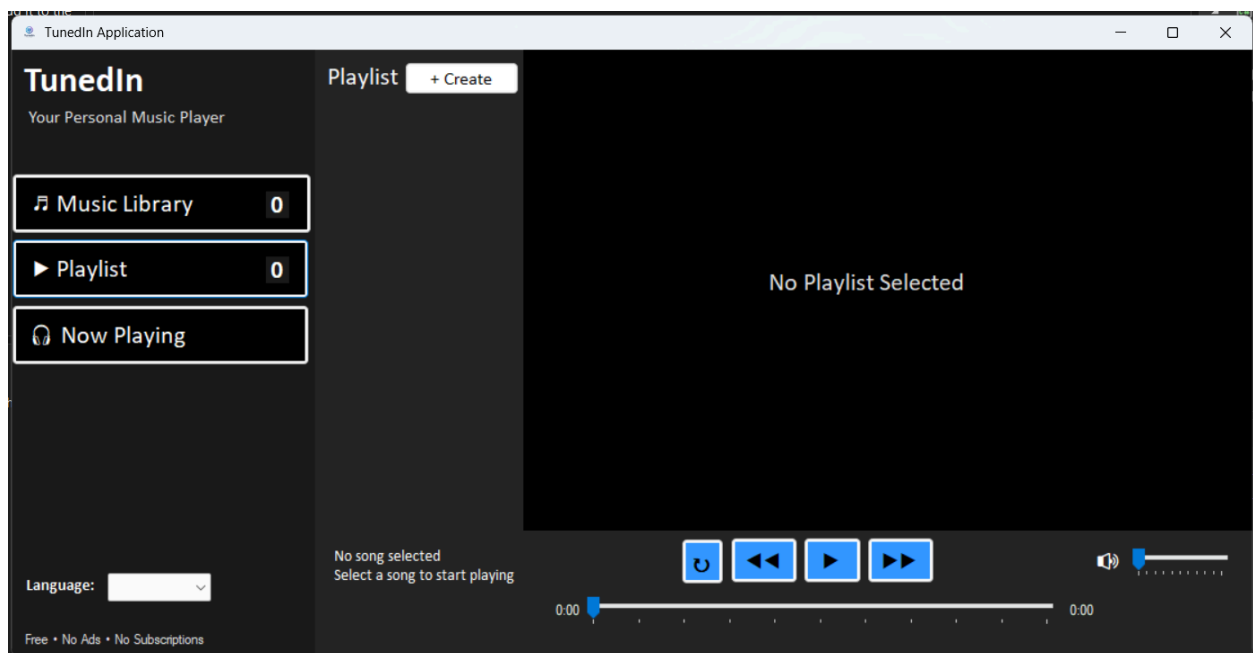
- Playlist panel after creating a playlist

Exception Handling:
- A pop-up box appears when the Play All button is clicked, but the playlist has no song
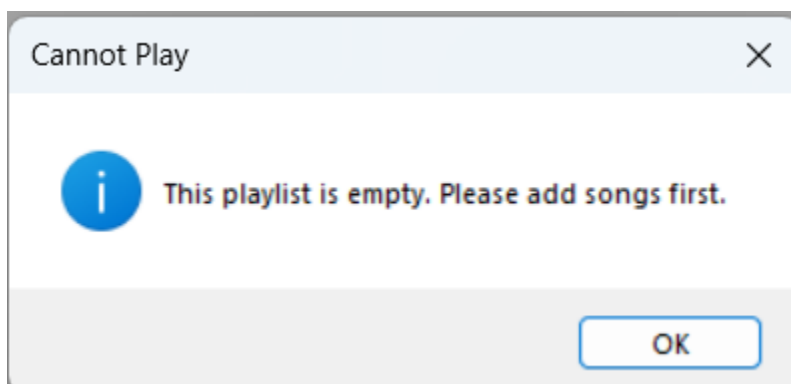
Create Playlist Page

By clicking the Create Button in the sidebar of the Playlist Panel a popped up page will appear where the user can create their playlist and name it.
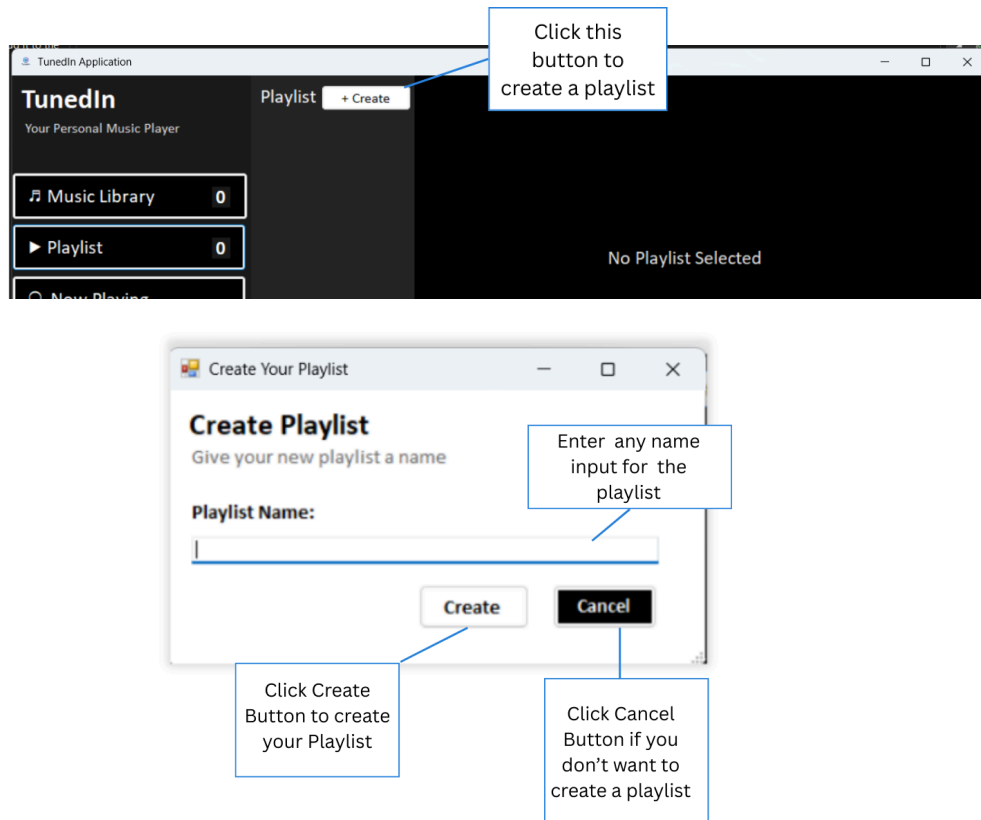
Exception Handling:

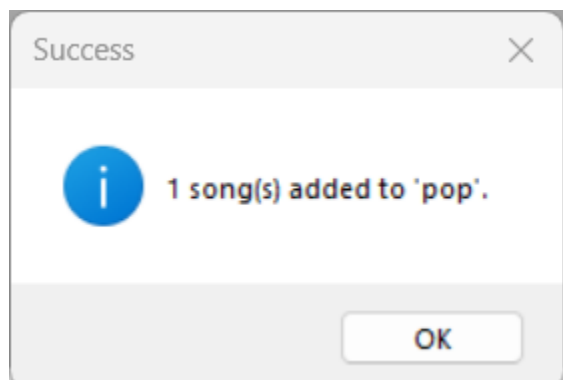- A pop-up box appears when the Create Button is clicked without a playlist name entered.
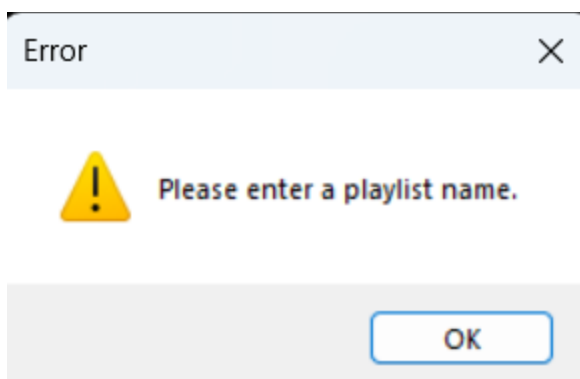
Add Song in the Playlist Page

By clicking the Add Song Button a popped up page will appear where the user can select and add songs in the playlist
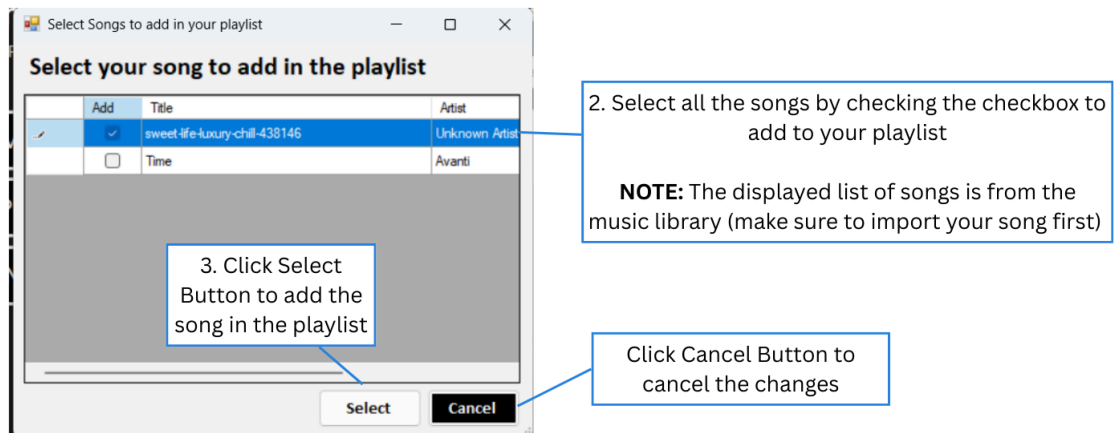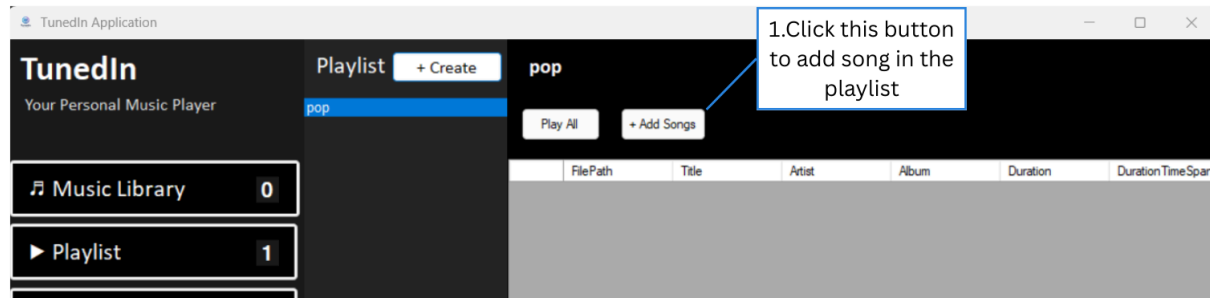
Exception Handling:
- A pop-up box appears when the user clicks the Select Button after selecting your songs. It counts how many songs the user added in the playlist.

- A pop-up box appears when the user clicks the Select Button but did not select any songs or did select a song that already existed in their playlist.
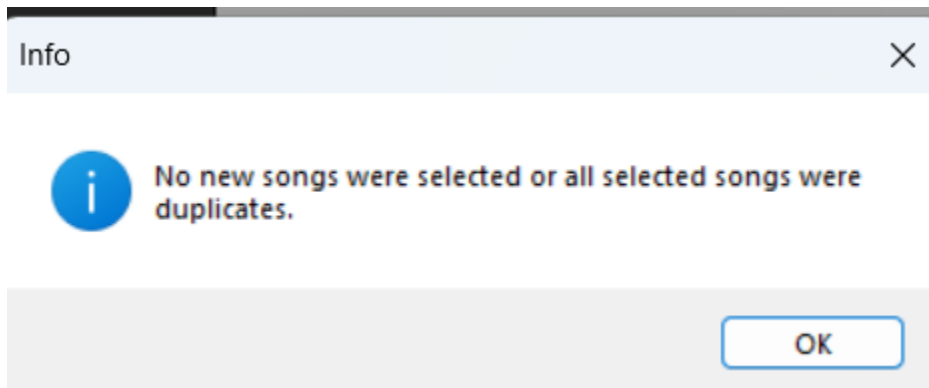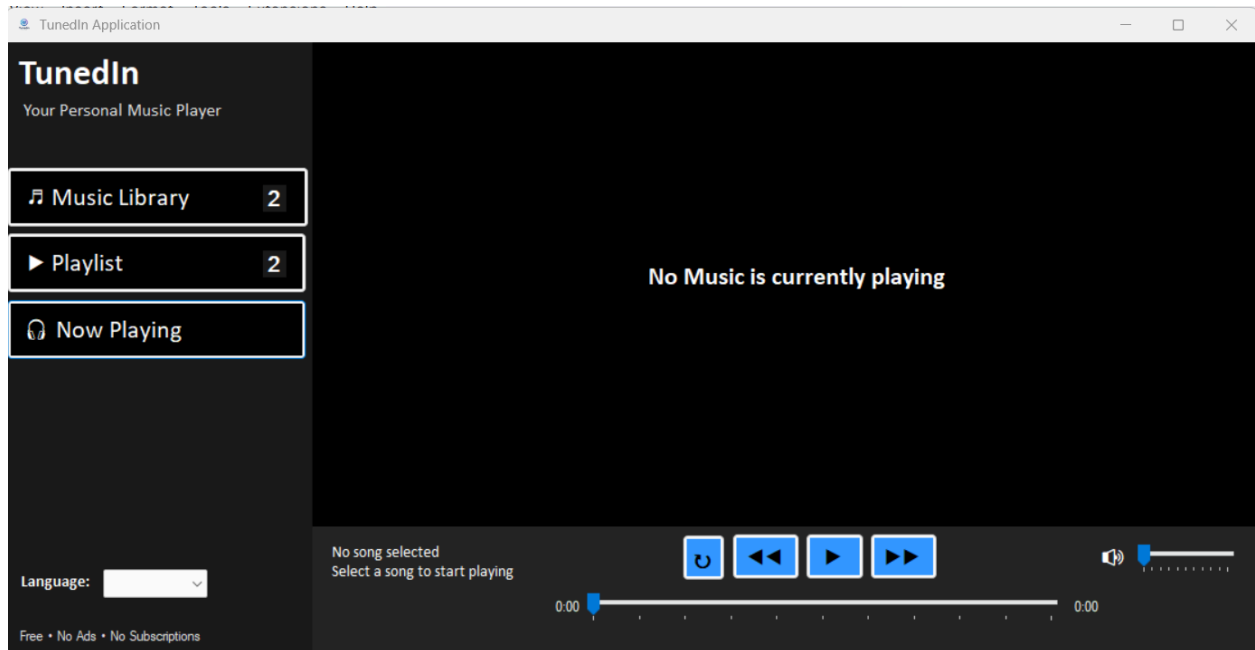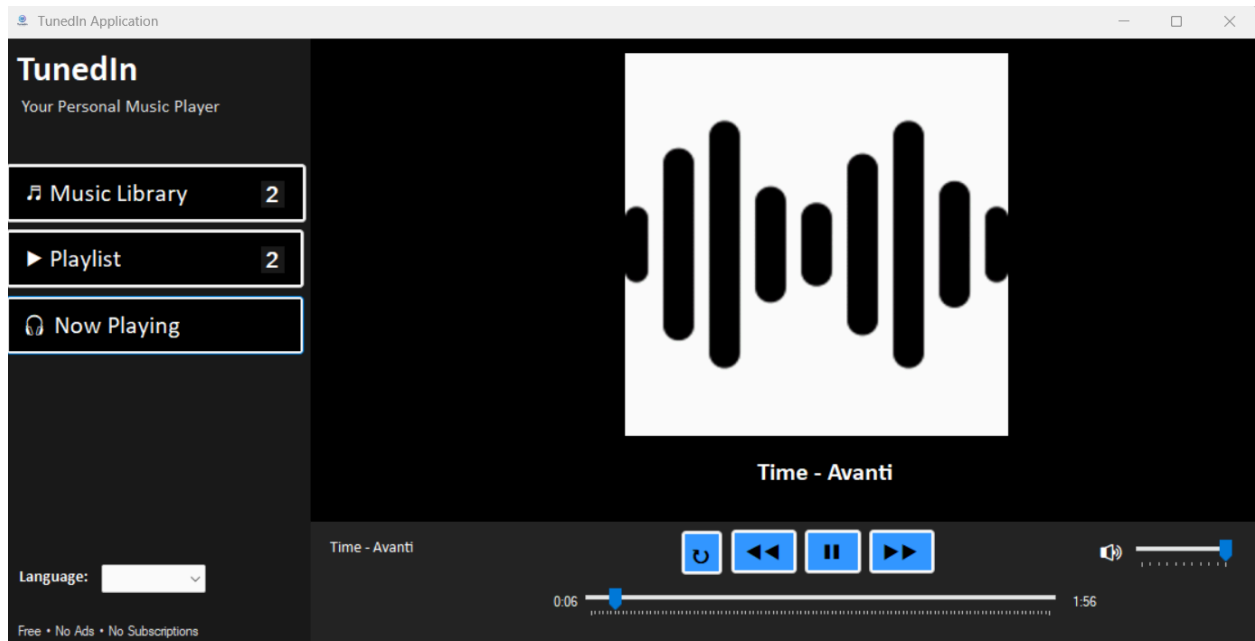

Now Playing Panel:

This panel is just displaying the cover page of the current played song with its title and artist.To get access to the Now Playing Panel, the user has to click Now Playing Button in the navigation sidebar.
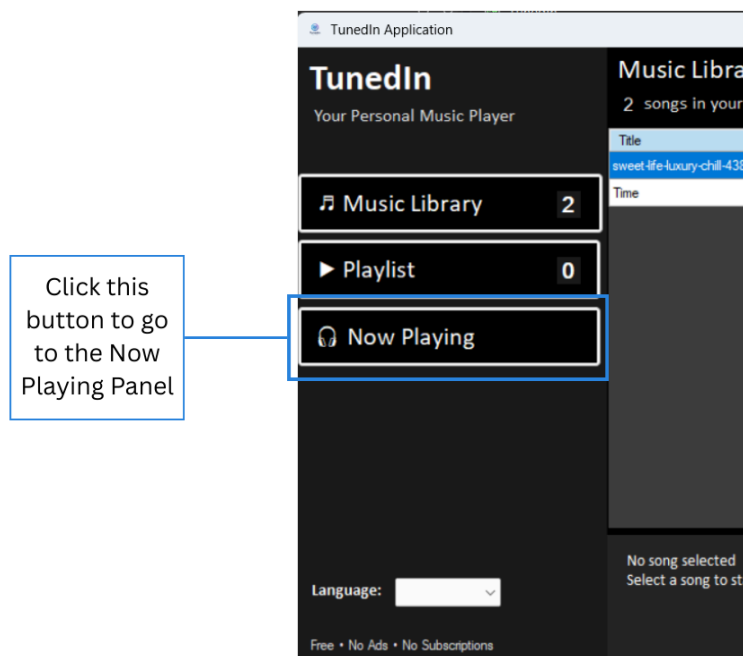
- Initial Now Playing Panel when there is no songs playing

- Now Playing Panel when a song is playing

Playback/Control Panel:

This panel is found at the bottom provides playback controls to play/pause, navigate tracks, repeat, seek within a song, and adjust volume.

I18n of the Application:

This application provides 3 languages: English (by default), French and Spanish. To switch languages click the selector case at the bottom-left corner of the application.
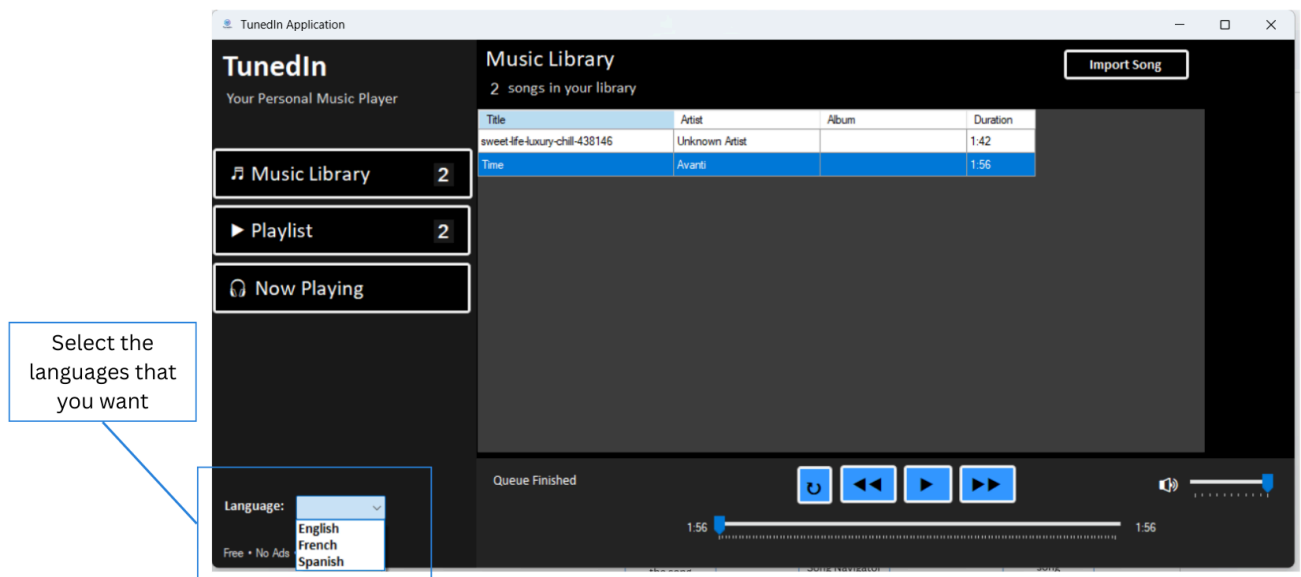
*NOTE: Every time the user click the language that they want, it will <u>restart</u> the application
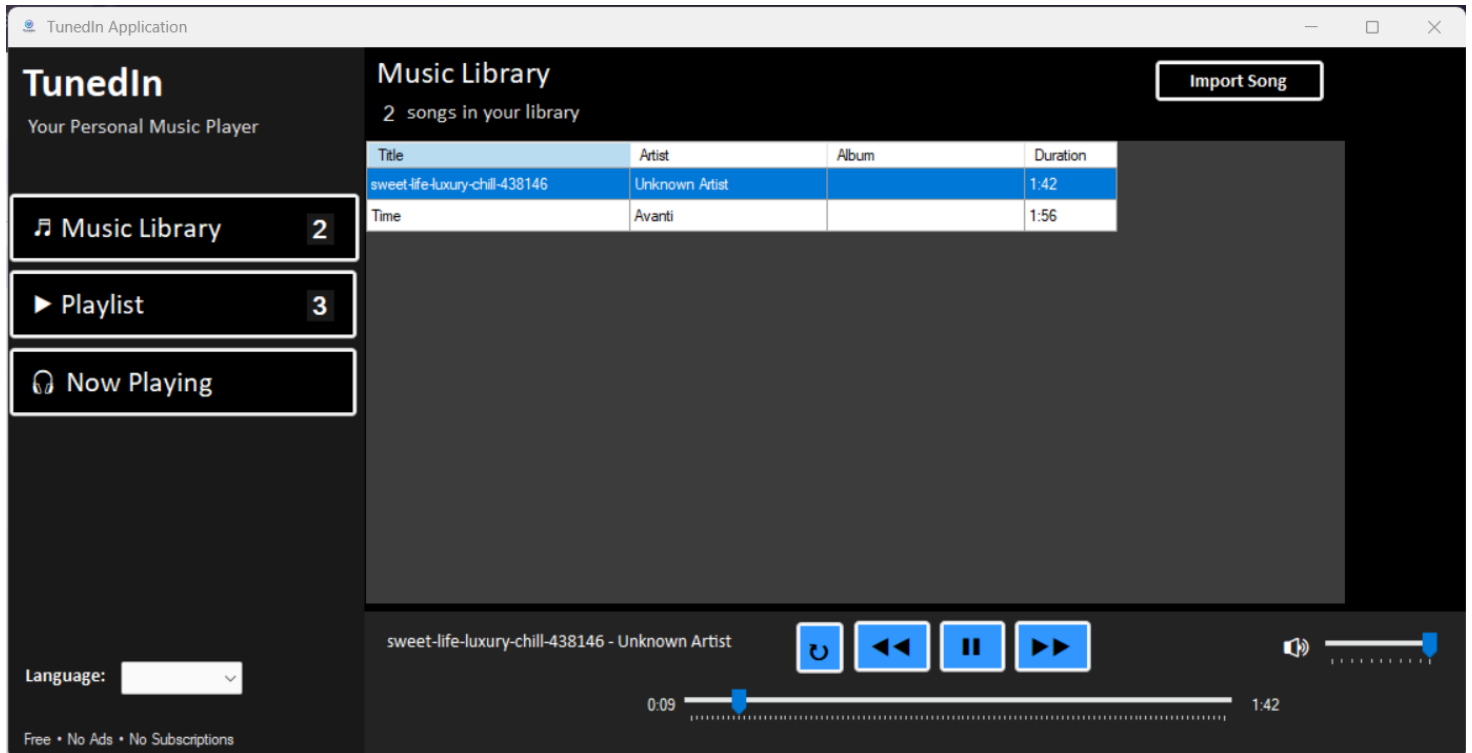
- French Version:

- Spanish Version:

Previous Versions:

Version 1.0.0

Version 1.0.1