

Encryption Based Audio File Distribution System

With Compatible Music Player

The system will be used by artists (or musicians), customers and guest users. An artist him/herself is both a customer and an artist.

Before signing up, an user can enter the system as a guest user.

When a customer first sign up to the system, s/he will also provide his/her phone number (for payment gateway) and password.

After signing up the system as a customer, an artist will request to verify him/her as an artist. Once an artist is verified to the system, a profile of the artist is created and an artist ID will be provided to him/her. Customers have option to follow and unfollow artists and “purchase and download” the published songs from the profile view.

The artist will select a file from device, input the file’s name and the system will generate a file ID. The system will embed the file ID and artist ID to that file and encrypt that file. Then artist will upload

- the encrypted file
- a preview raw file for that encrypted file and
- a text

The encrypted file, the preview file and the text, as a whole, is considered as “Post” and it will be shown to artist’s profile. Artist’s uploaded file numbers and his/her follower numbers will also be shown in his/her profile.

Artist will also view the numbers of his/her purchased files by customers and his/her revenues for each songs.

A customer will perform the following functions:

Purchase File: S/he can purchase any files produced by any artists for upto 3 devices.

Play Music: A music player tab, which will deliver the functionality of basic music player for the both the purchased files and ordinary .mp3 files.

Discover songs and artists: Customer will view top artist list according to artists’ downloaded song numbers, top downloaded file list and most recent uploaded songs list and s/he can “purchase and download” song from this lists.

View Feed: A Customer will view the posts (based on time) from his followed artists on Feed tab. Customer can listen the preview of songs online for a limited amount of time and have option to “purchase and download” songs from here.

Search Songs and Artists: Customers will randomly search songs and artists and “purchase and download” songs from that search list result.

A server database will provide data for payment gateway about every artist's revenue and every customer's usage.

A guest user can perform "Discover songs and artists" and "search songs and artists" functionality but will not be able to download or purchase song. Guest user will be able to play ordinary .mp3 files from his/her device on music player.