Custom Music Player

This mini project is developed as a custom music player that lets you **ADD, SORT and PLAY** your local music in an organised manner. You can also add your artist and sort your music based on your favourite artists.
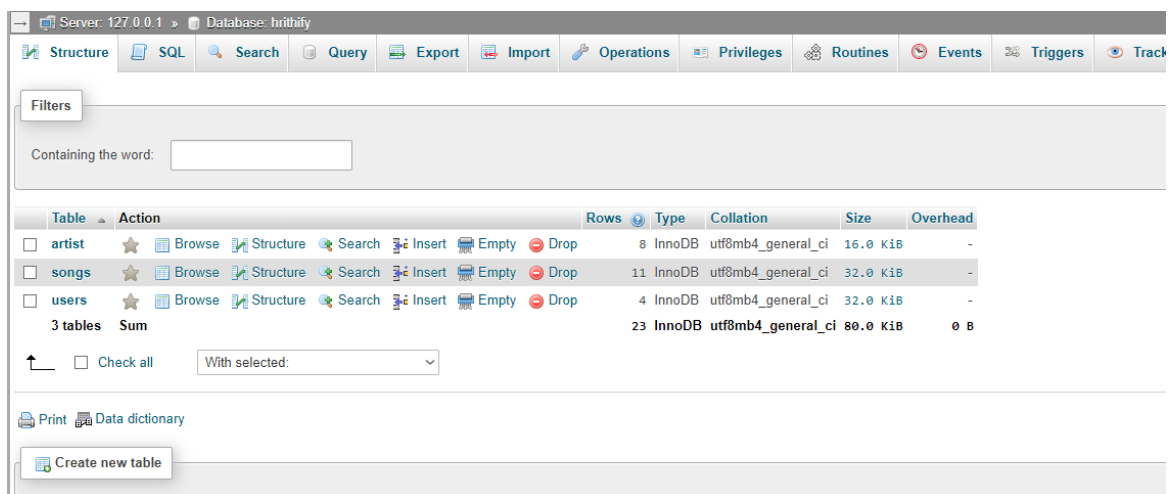
Features

- Authentication
- Add your local music
- Add your cover picture
- Sort based on Artists
- Play on the web

Technologies Used

- HTML – I used HTML default <audio> tag to play the audio on the browser
- CSS – Styling is used for adding more UI to the Application
- PHP – All the database backend communications are done using PHP
- JavaScript – Condition based button generation for a form is implemented using JS
- Mysql – SQL database is used for storing the information.

Database Schema

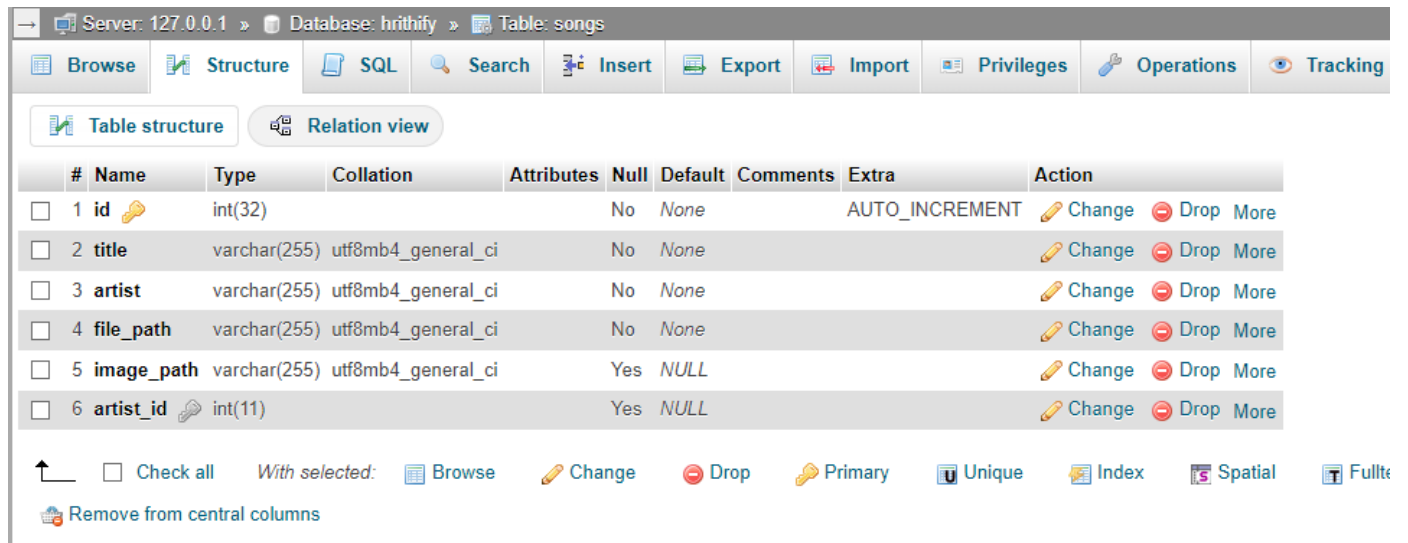The database *hrithify* is created with the below tables

Tables information

The tables are **songs, artist, users** are created under the database with the below schema that hold the information for the respective data.
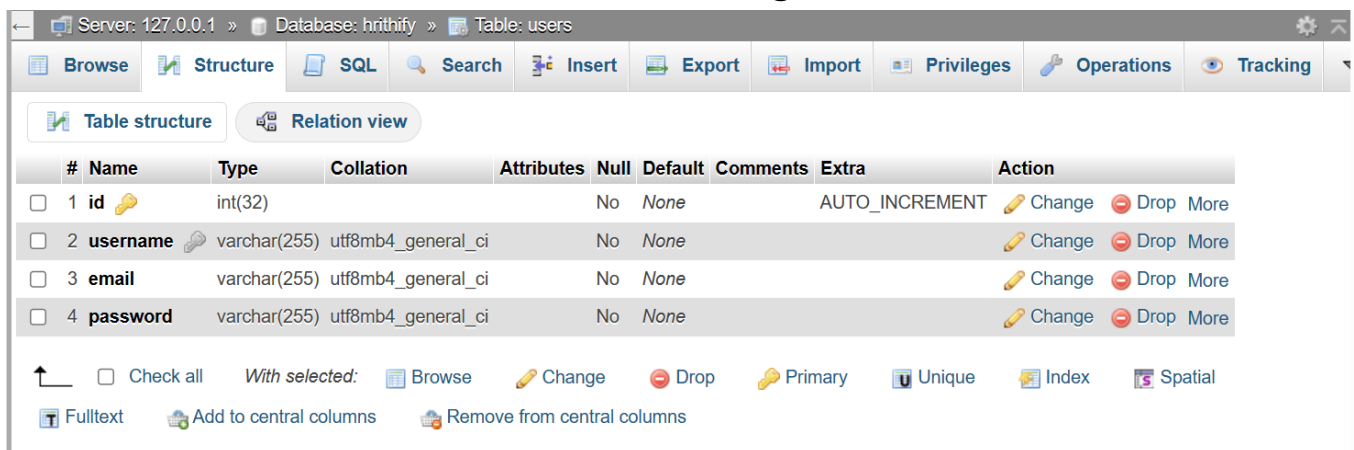
	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	id	int(32)			No	None		AUTO_INCREMENT	Change	Drop	More
☐	2	title	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
☐	3	artist	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
☐	4	file_path	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
☐	5	image_path	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
☐	6	artist_id	int(11)			Yes	NULL			Change	Drop	More

☐ Check all   With selected: Browse   Change   Drop   Primary   Unique   Index   Spatial   Fullte

Remove from central columns

Table: songs
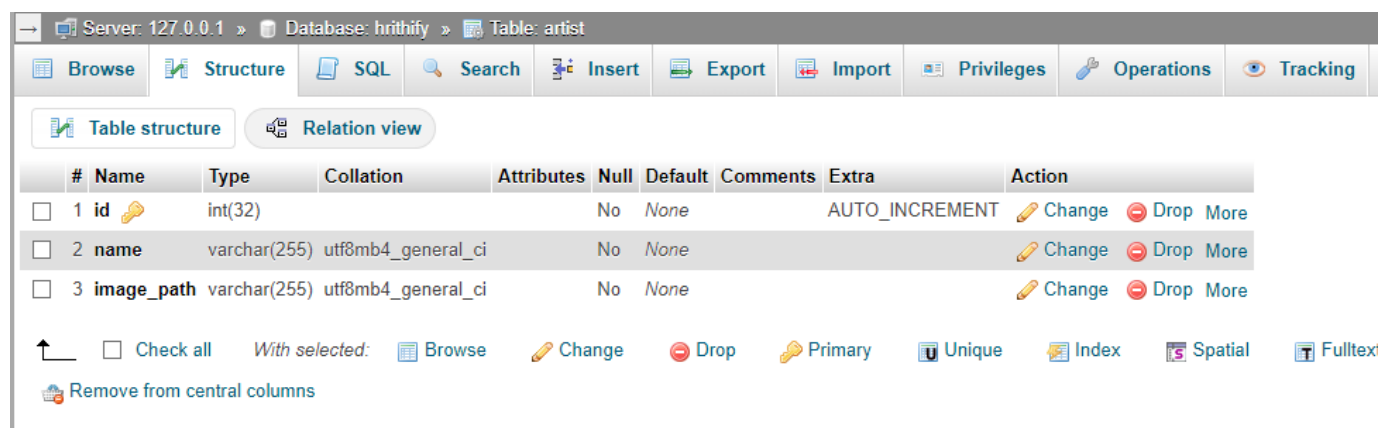
	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	id	int(32)			No	None		AUTO_INCREMENT	Change	Drop	More
☐	2	username	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
☐	3	email	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
☐	4	password	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More

☐ Check all   With selected: Browse   Change   Drop   Primary   Unique   Index   Spatial

Fulltext   Add to central columns   Remove from central columns

Table: artist

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	id	int(32)			No	None		AUTO_INCREMENT	Change	Drop	More
☐	2	name	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
☐	3	image_path	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More

☐ Check all   With selected: Browse   Change   Drop   Primary   Unique   Index   Spatial   Fulltext
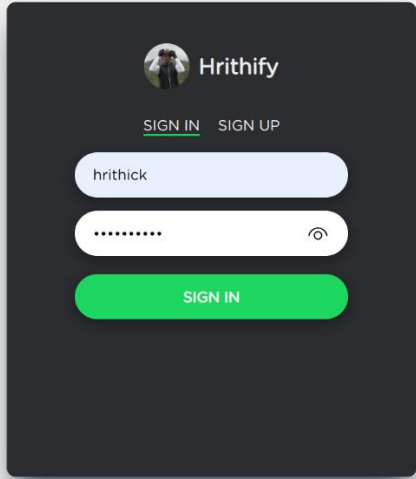
Remove from central columns

Table: users

Frontend Views

Our project consists of 4 views that are as below:

- User Login/Register
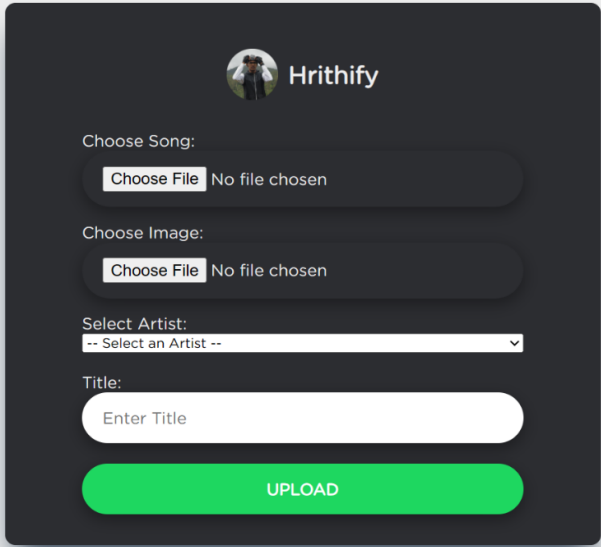- Upload songs/artists
- Songs
- Artists
- Artist – Songs

The entire project is styled by a single html page named *__Base.html__* that has inline css under the <style> tag.

USER LOGIN/REGISTER

Login.php

UPLOAD VIEW

Upform.php
Upload.php
Upform.html

SONGS VIEW
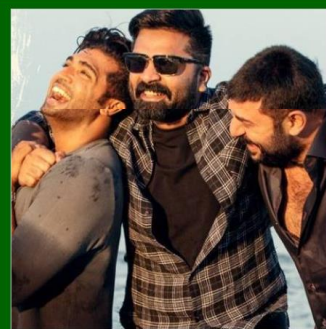
    The songs are retrieved from the SQL database and then displayed in the HOME/SONGS page through the **Songs.php.** *Songs.php* uses another php file named **Audio.php** that aids in retrieving the audio. The obtained files are then displa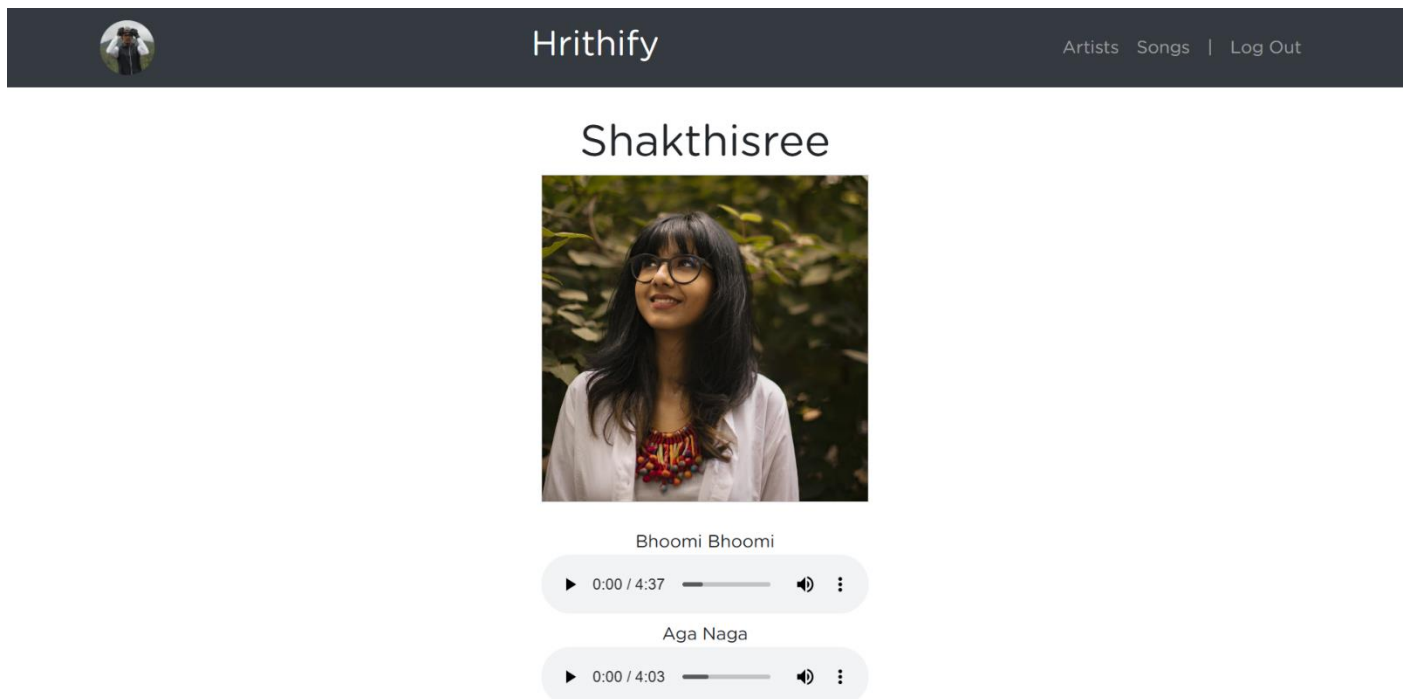yed using **Template.php.** The *template.php* file gets the data from *songs.php* and displays them using the html template.
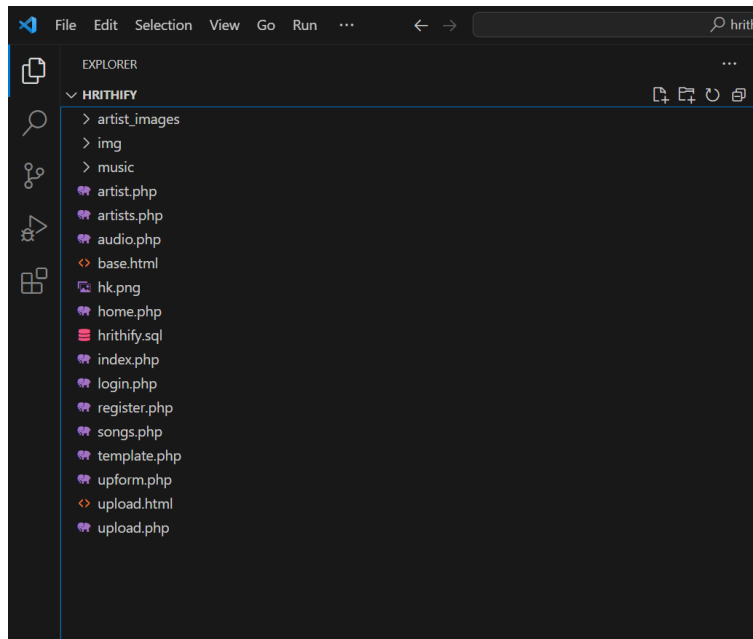
ARTIST VIEW

Artists.php

ARTIST-SONGS VIEW

As we select the artist name, we use *header* to pass it to another file that displays the songs of each artist individually. This is handled by the file **Artist.php.**

Project Structure:

The project makes use of the paths *"/music"* that holds the music files that are uploaded by moving the .mp3 files to this folder. The same procedure is used to display the images that are under the paths *"/img"* and *"/artist_images"* that holds the cover images and artist images respectively.

USER MANUAL

1. Go to the path: *"localhost/hrithify"*
2. In **Sign Up**, Register yourself as new user
3. You will be redirected to the **Sign In** page
4. You will see the **Home page** that has all the Music files
5. In the *navigation bar*, you can see the **Artist page** that holds the information about all the artists.
6. When you click the *image of the artist*, you will see the songs that are composed by the respective artists.
7. When you click the **Hrithify** button on the navigation bar, you will see the *form for uploading local music and artist information.*
8. If the *artist is new*, you will be asked to **add the artist information** along with the song information.
9. After you upload the form, you will see your song in the songs page
10. When you click the **logout** on the nav-bar, you can see your account logged out from the application.