

# 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

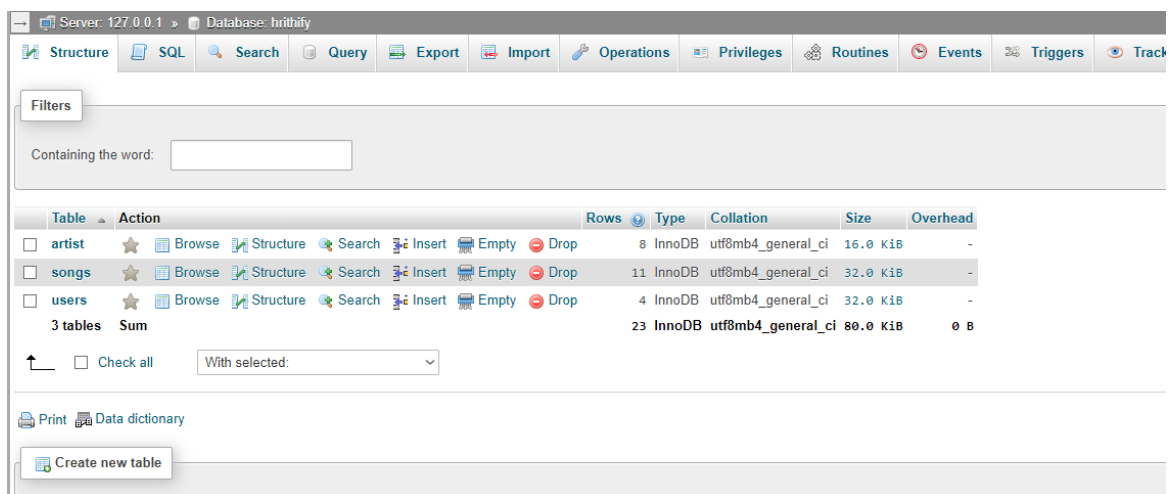
- Authentication
- Add your local music
- Add your cover picture
- Sort based on Artists
- Play on the web

## 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

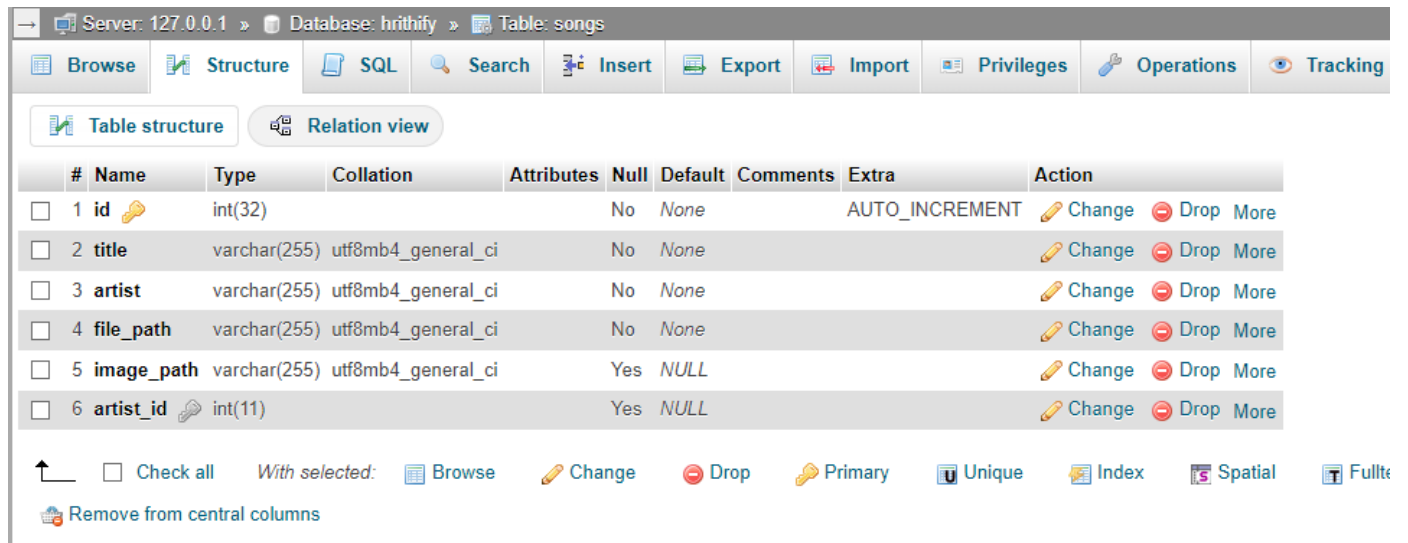


The screenshot shows the MySQL database interface for the 'hrithify' database. The 'Structure' tab is active, displaying a list of tables: 'artist', 'songs', and 'users'. Each table has a set of actions (Browse, Structure, Search, Insert, Empty, Drop) and a summary row showing the total number of rows, type, collation, size, and overhead.

Table	Action	Rows	Type	Collation	Size	Overhead
artist	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	16.0 KiB	-
songs	Browse Structure Search Insert Empty Drop	11	InnoDB	utf8mb4_general_ci	32.0 KiB	-
users	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	32.0 KiB	-
3 tables	Sum	23	InnoDB	utf8mb4_general_ci	80.0 KiB	0 B

## 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.



Server: 127.0.0.1 » Database: hrithify » Table: songs

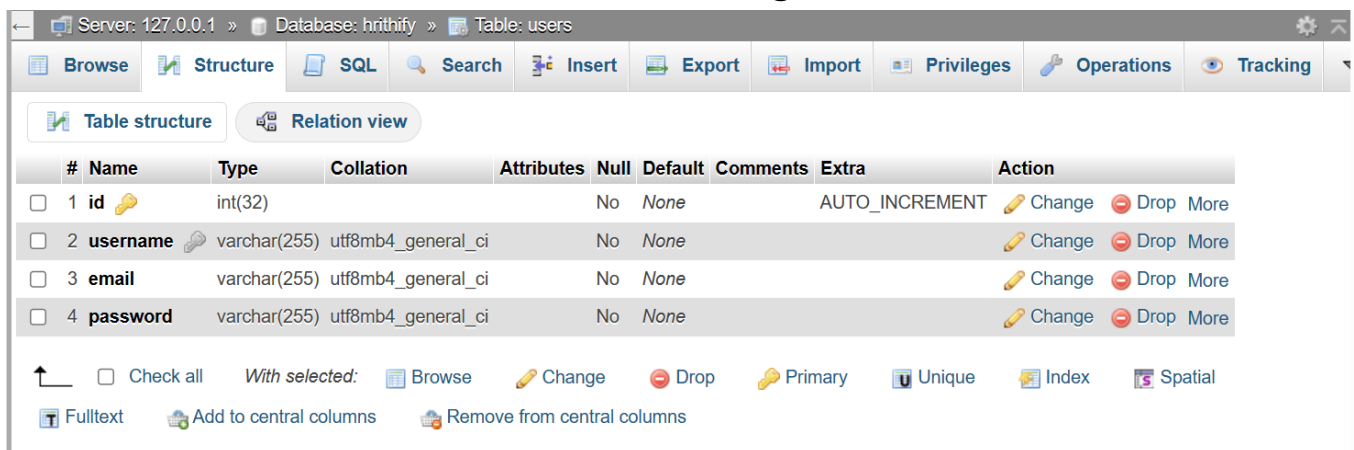
Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(32)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2 title	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	3 artist	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	4 file_path	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	5 image_path	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/>	6 artist_id	int(11)			Yes	NULL			Change  Drop  More

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

Remove from central columns

*Table: songs*



Server: 127.0.0.1 » Database: hrithify » Table: users

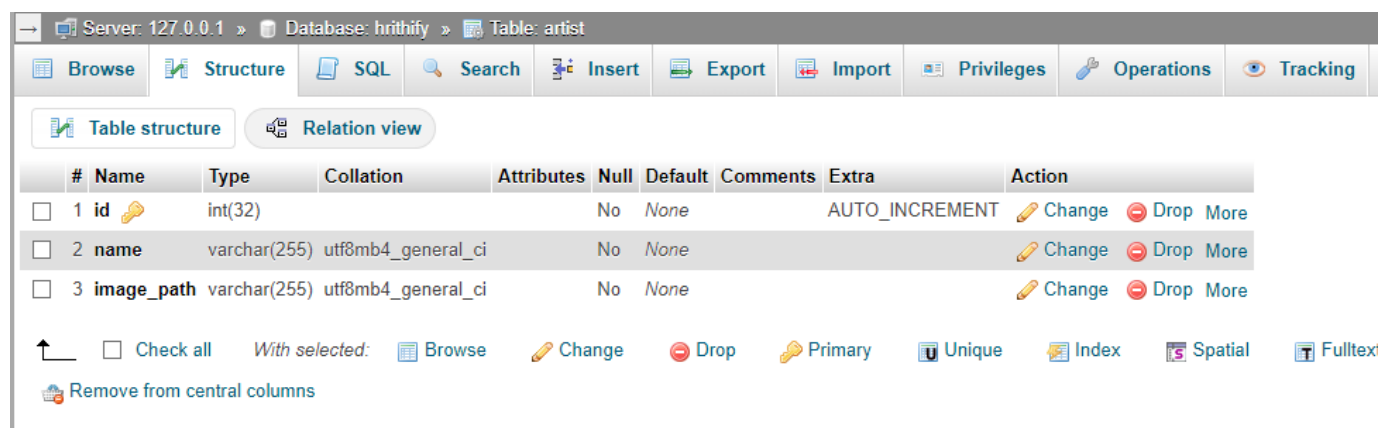
Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(32)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2 username	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	3 email	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	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*



Server: 127.0.0.1 » Database: hrithify » Table: artist

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(32)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2 name	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	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*

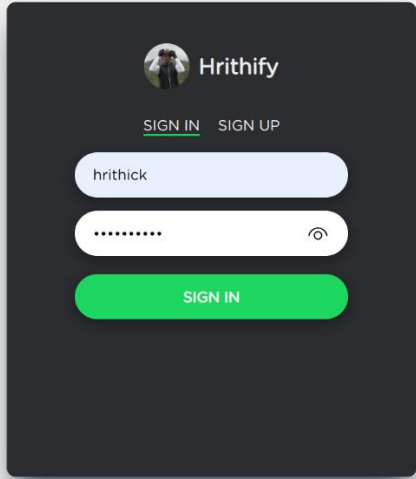
## Frontend Views

Our project consists of 4 views that are as below:

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

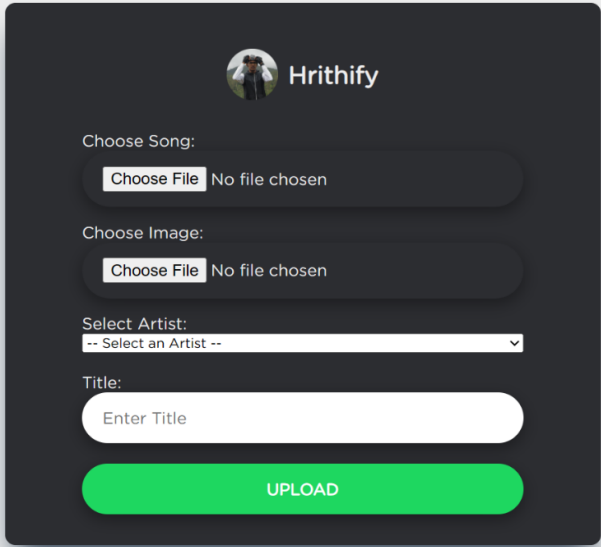
The entire project is styled by a single html page named [Base.html](#) that has inline css under the <style> tag.

### USER LOGIN/REGISTER

A dark-themed login/register form for 'Hrithify'. It features a profile picture placeholder and the name 'Hrithify'. Below the name are links for 'SIGN IN' and 'SIGN UP'. There are two input fields: one for the username 'hrithick' and another for a password represented by dots, with an eye icon for toggling visibility. A green 'SIGN IN' button is at the bottom.

[Login.php](#)

### UPLOAD VIEW

A dark-themed upload form for 'Hrithify'. It includes a profile picture placeholder and the name 'Hrithify'. The form has three sections: 'Choose Song:' with a 'Choose File' button and 'No file chosen' text; 'Choose Image:' with a 'Choose File' button and 'No file chosen' text; and 'Select Artist:' with a dropdown menu showing '-- Select an Artist --'. Below these is a 'Title:' input field with the placeholder 'Enter Title'. A green 'UPLOAD' button is at the bottom.

[Upform.php](#)  
[Upload.php](#)  
[Upform.html](#)

## SONGS VIEW



Hrithify

Artists Songs | Log Out



Naan Pizhaipeno - Darbuka Siva

▶ 0:00 / 6:01



Hey Nijame - Darbuka Siva

▶ 0:00 / 4:34



Anthaathi - Govind Vasantha

▶ 0:00 / 7:14



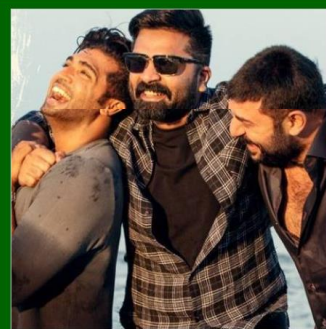
Yaar Azhaippathu - Ghibran

▶ 0:00 / 3:32



Aye Sinamika - AR Rahman

▶ 0:00 / 6:30



Bhoomi Bhoomi - Shakthisree

▶ 0:00 / 4:37



Hayyoda - Anirudh

▶ 0:00 / 3:20



Kaadhale Kaadhale - Govind Vasantha



Nenjukkul Peithidum - Harris Jeyaraj

▶ 0:00 / 6:11

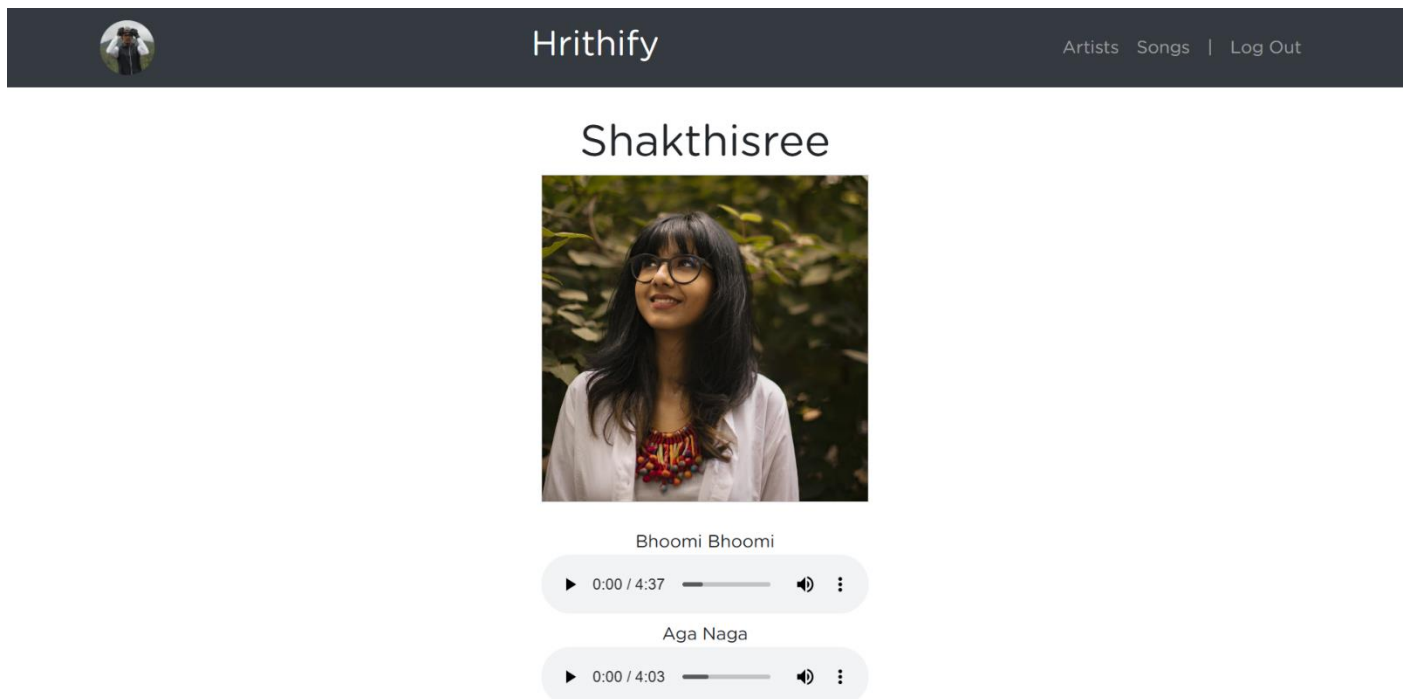
The songs are retrieved from the SQL database and then displayed in the HOME/SONGS page through the [Songs.php](#). *Songs.php* uses another php file named [Audio.php](#) that aids in retrieving the audio. The obtained files are then displayed using [Template.php](#). The *template.php* file gets the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

## ARTIST VIEW



[Artists.php](#)

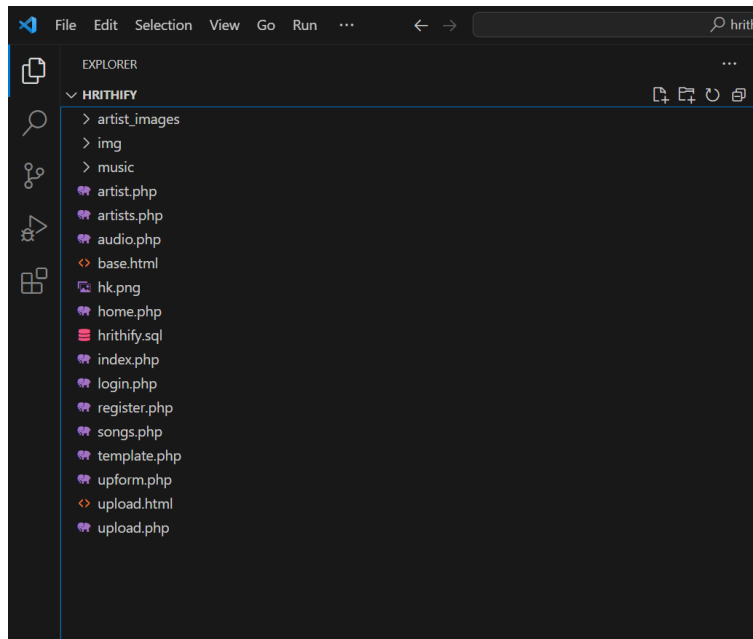
## ARTIST-SONGS VIEW



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.