

INTRODUCTION

The project is a simple website to showcase particular dataset in website as per the user's request/command. The music management website will help the user to see information about different songs. It categorizes and catalogs every single piece of song with respect to its corresponding Artists, Language and Genre.

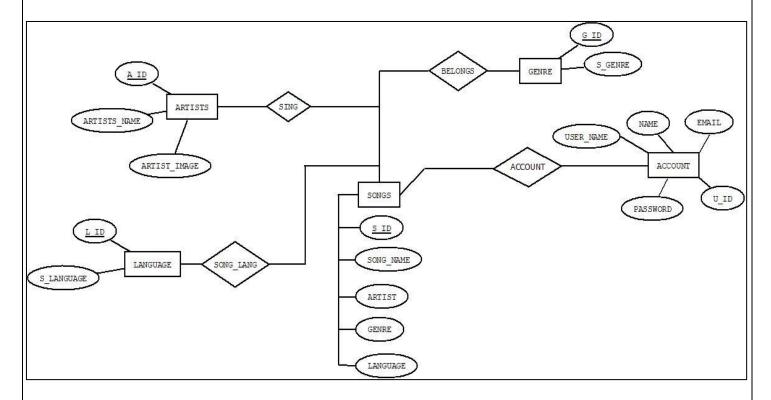
The idea behind Music management website is to make the website user-friendly for the users to access the songs which they require efficiently.

ABSTRACT

The aim of this project is the development of a centralized relational Music website.

This website provides users to make accounts and utilize the software to access Music and songs. This will be achieved by implementation of Database management and using a GUI interface for the complete software.

ARCHITECTURE- ER DIAGRAM



MODULES:

The project was made with the co – ordination of 3 major functionalities.

- 1) Front end
- 2) Back end
- 3) Database

SOFTWARE USED:

- 1) Front end HTML, CSS
- 2) Back end PHP
- 3) Database Mysql
- 4) XAMPP control panel to connect PHP to Database

MAJOR MODULES:

1) USER'S ACOUNT:

→ REGISTER/SIGN UP:

The website allows to create an account/profile. This will help to categorize elements which only a particular user wants to keep or change.

It also allows to keep a check on the number of users accessing or using our website.

The account registration stores the following credentials of the user,

- 1. Name
- 2. User Name
- 3. Email ID
- 4. Password

→ LOGIN:

The login is created to identify the particular user, who is going to use the website. The login module checks the username and password entered by the user. The entered username and password are checked with the database where the registered information is stored.

The data is checked and if it matches, it allows the user into the website.

This ensures privacy of the user in the website.

Also, it helps to keep a track of the user's activity in the website.

2) MAIN PAGE:

The main page of the website provides options to navigate through all other modules or webpages provided.

The main page consists of the following four buttons,

- 1. SONGS
- 2. ARTISTS
- 3. LANGUAGE
- 4. GENRE

From the main page the user can navigate to these 4 pages and access the particular song he/she requires.

This helps to branch the available options and also makes it easy and efficient for user to see the songs.

Further explaining the sub-modules of the page,

a) SONGS:

The song webpage displays all the songs entered in database. It shows all the data of the song including Song's name, Artist's name, Language and Genre of the song.

By connecting the back end to the database, we could display all the information present in database in the website.

Through front end coding (using HTML & CSS), the information is displayed on the website in a card. The font, colour and style set through front end coding makes the website look attractive and organized.

b) ARTISTS:

The artists webpage displays all the names of the artists with their images entered in database.

This page helps the user to access songs based on the artists. This categorization helps user to see the songs of their favourite artists.

When the user clicks VIEW button of any particular artist. The songs of the particular artist are displayed on the screen.

The working behind this categorization is based on Database constraints used in database.

The particular ID of the artist is passed as a data when we click the view of the corresponding artist. The ID is then matched to the main database of the song where the artist ID corresponding the song present is displayed.

This way the segregation of songs is achieved through commands of mysql.

c) LANGUAGE:

This page displays the languages of songs available in server.

The languages provided for this project are,

- 1. Hindi
- 2. English
- 3. Bengali
- 4. Punjabi
- 5. Korean

When the user clicks the particular language, corresponding songs of that language is displayed.

This is achieved through the same working principle used in artist by passing ID and mapping it to the song database.

d) GENRE:

This page displays the genre of songs available in server.

The genre provided for this project are,

- 1. Pop
- 2. Lofi
- 3. Rock
- 4. Soul
- 5. EDM
- 6. K-pop

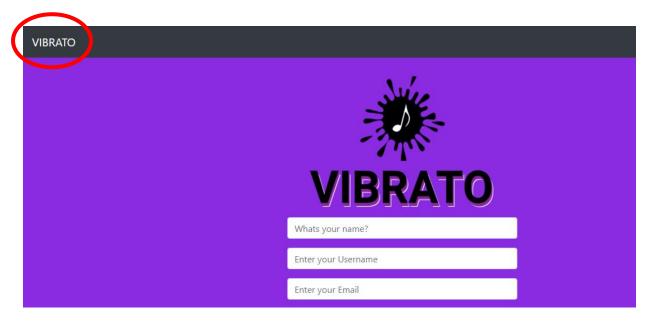
When the user clicks the particular genre, corresponding songs of that genre is displayed.

This is achieved through the same working principle used in artist by passing ID and mapping it to the song database.

NOTE: Two small modules which is also included are as follows

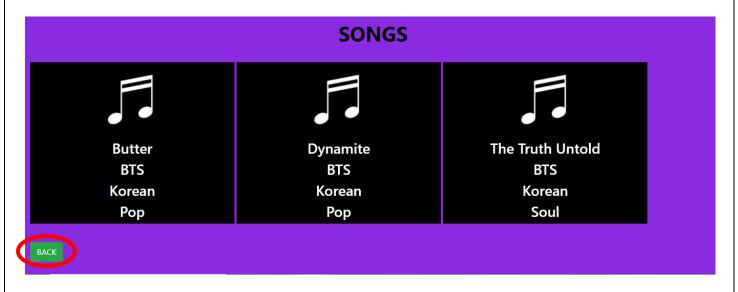
→ VIEW PORT:

A link (as button) is provided at the leftmost top of website to navigate directly back to main page. This helps user to navigate quickly and efficiently



→ BACK BUTTON:

The back button is provided in the pages where songs are displayed based on any categorization explained earlier.



ROLE OF DBMS IN PROJECT:

The role of DBMS is very important in the project. The whole website is dependent on database and database management only.

With proper management of database in the server, the desirable results of website are achieved.

In this project we have used integrity constraints to connect all the tables.

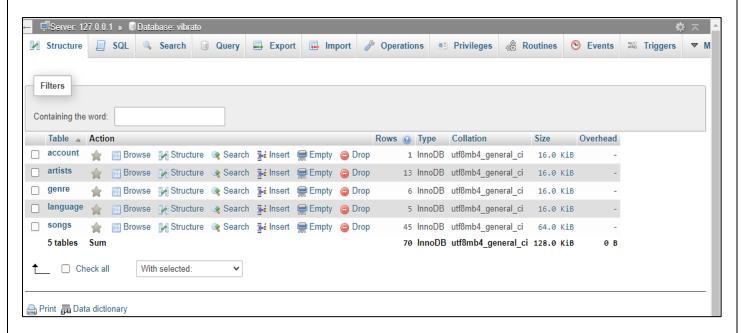
The Referential integrity constraints play a vital role in working of categorisation of the songs.

SQL server was used to create a database and tables inside it.

The following are the tables created,

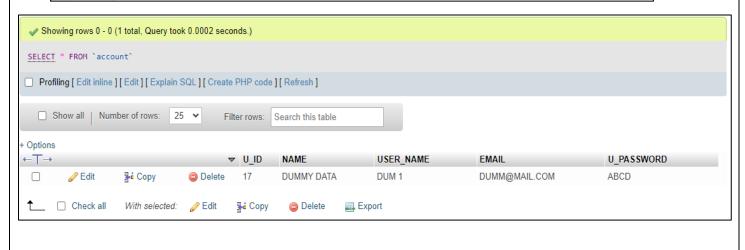
- 1. Account
- 2. Song
- 3. Artist
- 4. Language
- 5. Genre

DATABASE



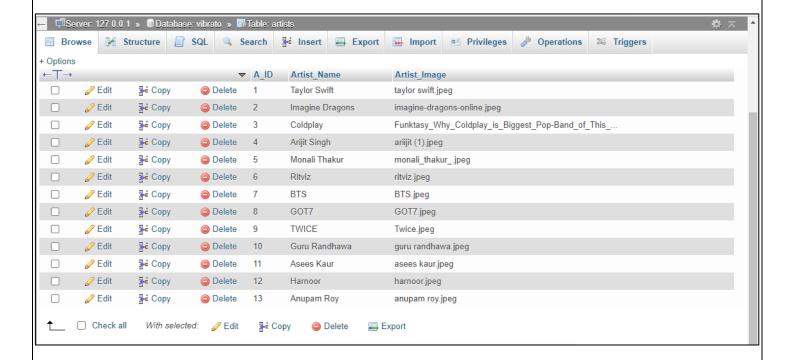
The queries and corresponding tables are shown below,

1) ACCOUNT – User information taken as input and stored.



2) ARTISTS:

```
1 CREATE TABLE artists
2 (Artist_Name varchar(70),
3 Artist_Image varchar(70)
4 );
5
6 ALTER TABLE artists ADD A_ID int NOT NULL AUTO_INCREMENT PRIMARY KEY first;
```



3) LANGUAGE:

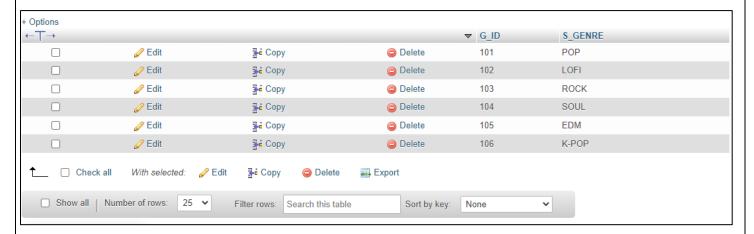
```
Run SQL query/queries on database vibrato:

1 CREATE TABLE LANGUAGE
2 (L_ID int,
3 S_LANGUGAE varchar(30)
4 );
5
6 ALTER TABLE LANGUAGE ADD CONSTRAINT L_PK PRIMARY KEY(L_ID);
7
8 INSERT INTO LANGUAGE VALUES (10, 'Hindi');
9 INSERT INTO LANGUAGE VALUES (20, 'English');
10 INSERT INTO LANGUAGE VALUES (30, 'Bengali');
11 INSERT INTO LANGUAGE VALUES (40, 'Punjabi');
12 INSERT INTO LANGUAGE VALUES (50, 'Korean');
```



4) GENRE:

```
1 CREATE TABLE GENRE
2 ( G_ID int,
3 GENRE varchar(30)
4 );
5
6 ALTER TABLE GENRE ADD CONSTRAINT G_PK PRIMARY KEY(G_ID);
7
8 INSERT INTO GENRE VALUES (101, 'Pop');
9 INSERT INTO GENRE VALUES (102, 'Lofi');
10 INSERT INTO GENRE VALUES (103, 'Rock');
11 INSERT INTO GENRE VALUES (104, 'Soul');
12 INSERT INTO GENRE VALUES (105, 'EDM');
13 INSERT INTO GENRE VALUES (106, 'K-pop');
```

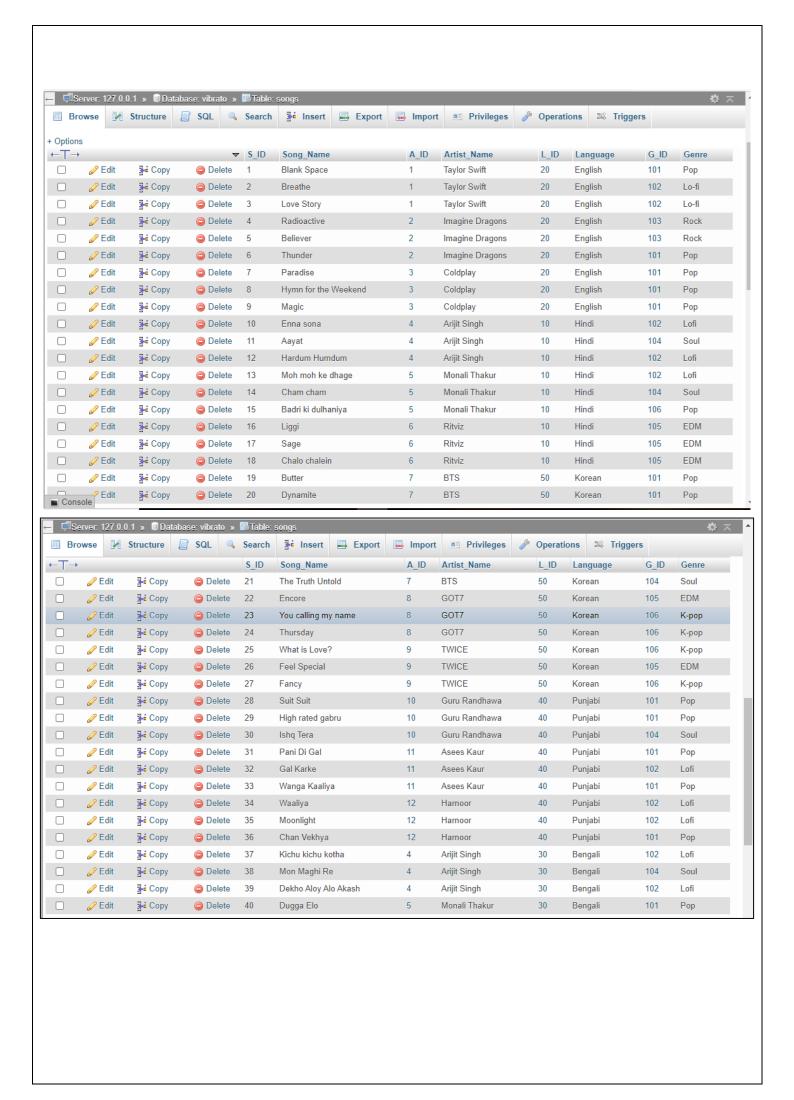


5) SONGS

```
1 CREATE TABLE SONGS
 2 ( Song Name
                  varchar(100),
   A ID
                  int,
 4 Artist Name varchar(70),
 5
   L_ID
                  int,
   Language
                  varchar(40),
   G_ID
                  int,
8
   Genre
                  varchar(30)
9);
10
11 ALTER TABLE SONGS ADD S_ID int AUTO_INCREMENT PRIMARY KEY first;
12 ALTER TABLE SONGS ADD CONSTRAINT FOREIGN KEY(A_ID) REFERENCES artists(A_ID);
13 ALTER TABLE SONGS ADD CONSTRAINT FOREIGN KEY(L_ID) REFERENCES language(L_ID);
14 ALTER TABLE SONGS ADD CONSTRAINT FOREIGN KEY(G ID) REFERENCES genre(G ID);
15
```

```
1 INSERT INTO songs VALUES(1, 'Blank Space',1, 'Taylor Swift',20, 'English',101, 'Pop');
 2 INSERT INTO songs VALUES(2, 'Breathe',1, 'Taylor Swift',20, 'English',102, 'Lo-fi');
 3 INSERT INTO songs VALUES(3, 'Love Story',1, 'Taylor Swift',20, 'English',102, 'Lo-fi');
 4 INSERT INTO songs VALUES(4, 'Radioactive', 2, 'Imagine Dragons', 20, 'English', 103, 'Rock');
 5 INSERT INTO songs VALUES(5, 'Believer', 2, 'Imagine Dragons', 20, 'English', 103, 'Rock');
 6 INSERT INTO songs VALUES(6, 'Thunder', 2, 'Imagine Dragons', 20, 'English', 101, 'Pop');
7 INSERT INTO songs VALUES(7, 'Paradise', 3, 'Coldplay', 20, 'English', 101, 'Pop');
8 INSERT INTO songs VALUES(8, 'Hymn for the Weekend', 3, 'Coldplay', 20, 'English', 101, 'Pop');
9 INSERT INTO songs VALUES(9, 'Magic', 3, 'Coldplay', 20, 'English', 101, 'Pop');
10 INSERT INTO songs VALUES(10, 'Enna sona', 4, 'Arijit Singh', 10, 'Hindi', 102, 'Lofi');
11 INSERT INTO songs VALUES(11, 'Aayat', 4, 'Arijit Singh', 10, 'Hindi', 104, 'Soul');
12 INSERT INTO songs VALUES(12, 'Hardum Humdum',4, 'Arijit Singh',10, 'Hindi',102, 'Lofi');
13 INSERT INTO songs VALUES(13, 'Moh moh ke dhage',5, 'Monali Thakur',10, 'Hindi',102, 'Lofi');
14 INSERT INTO songs VALUES(14, 'Cham cham',5, 'Monali Thakur',10, 'Hindi',104, 'Soul');
15 INSERT INTO songs VALUES(15, 'Badri ki dulhaniya',5, 'Monali Thakur',10, 'Hindi',106, 'Pop');
16 INSERT INTO songs VALUES(16, 'Liggi', 6, 'Ritviz', 10, 'Hindi', 105, 'EDM');
17 INSERT INTO songs VALUES(17, 'Sage', 6, 'Ritviz', 10, 'Hindi', 105, 'EDM');
18 INSERT INTO songs VALUES(18, 'Chalo chalein', 6, 'Ritviz', 10, 'Hindi', 105, 'EDM');
19 INSERT INTO songs VALUES(19, 'Butter',7, 'BTS',50, 'Korean',101, 'Pop');
20 INSERT INTO songs VALUES(20, 'Dynamite',7, 'BTS',50, 'Korean',101, 'Pop');
21 INSERT INTO songs VALUES(21, 'The Truth Untold',7, 'BTS',50, 'Korean',104, 'Soul');
22 INSERT INTO songs VALUES(22, 'Encore', 8, 'GOT7', 50, 'Korean', 105, 'EDM');
23 INSERT INTO songs VALUES(23, 'You calling my name',8, 'GOT7',50, 'Korean',106, 'K-pop');
24 INSERT INTO songs VALUES(24, 'Thursday', 8, 'GOT7', 50, 'Korean', 106, 'K-pop');
25 INSERT INTO songs VALUES(25, 'What is Love?',9, 'TWICE',50, 'Korean',106, 'K-pop');
26 INSERT INTO songs VALUES(26, 'Feel Special',9, 'TWICE',50, 'Korean',105, 'EDM');
27 INSERT INTO songs VALUES(27, 'Fancy',9, 'TWICE',50, 'Korean',106, 'K-pop');
28 INSERT INTO songs VALUES(28, 'Suit Suit',10, 'Guru Randhawa',40, 'Punjabi',101, 'Pop');
```

```
29 INSERT INTO songs VALUES(29, 'High rated gabru',10, 'Guru Randhawa',40, 'Punjabi',101, 'Pop');
30 INSERT INTO songs VALUES(30, 'Ishq Tera',10, 'Guru Randhawa',40, 'Punjabi',104, 'Soul');
31 INSERT INTO songs VALUES(31, 'Pani Di Gal',11, 'Asees Kaur',40, 'Punjabi',101, 'Pop');
32 INSERT INTO songs VALUES(32, 'Gal Karke',11, 'Asees Kaur',40, 'Punjabi',102, 'Lofi');
33 INSERT INTO songs VALUES(33, 'Wanga Kaaliya',11, 'Asees Kaur',40, 'Punjabi',101, 'Pop');
34 INSERT INTO songs VALUES(34, 'Waaliya', 12, 'Harnoor', 40, 'Punjabi', 102, 'Lofi');
35 INSERT INTO songs VALUES(35, 'Moonlight',12, 'Harnoor',40, 'Punjabi',102, 'Lofi');
36 INSERT INTO songs VALUES(36, 'Chan Vekhya',12, 'Harnoor',40, 'Punjabi',101, 'Pop');
37 INSERT INTO songs VALUES(37, 'Kichu kichu kotha',4, 'Arijit Singh',30, 'Bengali',102, 'Lofi');
38 INSERT INTO songs VALUES(38, 'Mon Maghi Re',4, 'Arijit Singh',30, 'Bengali',104, 'Soul');
39 INSERT INTO songs VALUES(39, 'Dekho Aloy Alo Akash',4, 'Arijit Singh',30, 'Bengali',102, 'Lofi');
40 INSERT INTO songs VALUES(40, Dugga Elo',5, Monali Thakur',30, Bengali',101, Pop');
41 INSERT INTO songs VALUES(41, 'Eeche Joto',5, 'Monali Thakur',30, 'Bengali',104, 'Soul');
42 INSERT INTO songs VALUES(42, 'Jana Nei', 5, 'Monali Thakur', 30, 'Bengali', 104, 'Soul');
43 INSERT INTO songs VALUES(43, 'Amake amar moto',13, 'Anupam Roy',30, 'Bengali',102, 'Lofi');
44 INSERT INTO songs VALUES(44, 'Moner manush',13, 'Anupam Roy',30, 'Bengali',104, 'Soul');
45 INSERT INTO songs VALUES(45, 'Ekhon anek raat',13, 'Anupam Roy',30, 'Bengali',101, 'Pop');
```





NOTE:

Referential Integrity constraints are used here.

Foreign keys are used to map artist, language and genre to the main table songs. This way we can categorize and access songs based on artists, languages and genres.

IMPLEMENTATION OF THE PROJECT:

The main purpose of the project is to help user find preferred songs based on artists, language or genre. Further it helps the user to know all the information and data of the song (i.e.) Song name, Artist name, Language and Genre.

The same model can be also used for various other purposes which will help users to understand data. Presenting/displaying the data in an attractive and efficient manner allows the user to interpret and access the data easily, efficiently and quickly.

RESULTS/OUTPUT:

REGISTER



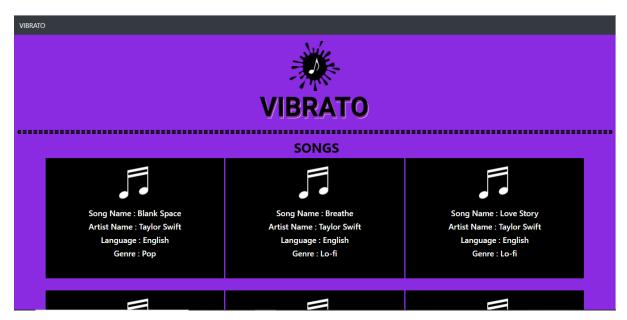
LOGIN

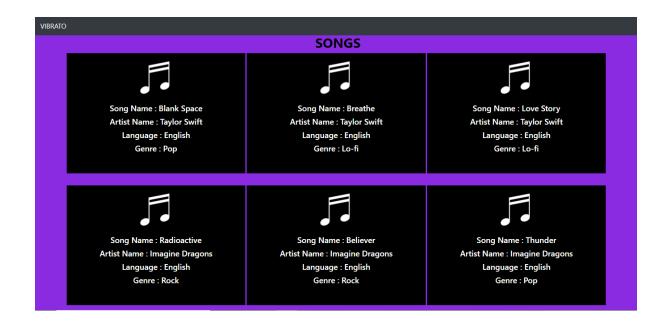


MAIN PAGE (HOME PAGE)

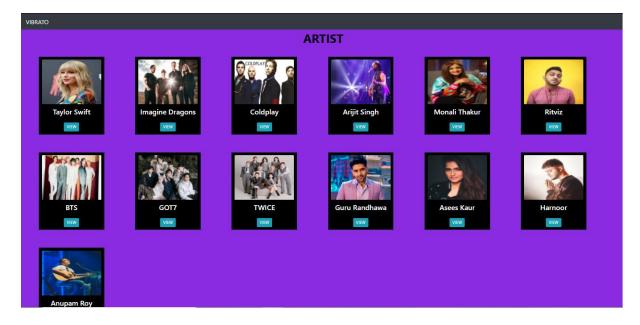


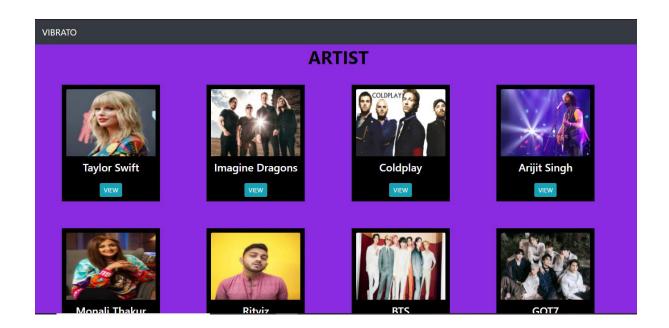
SONGS PAGE





ARTISTS PAGE





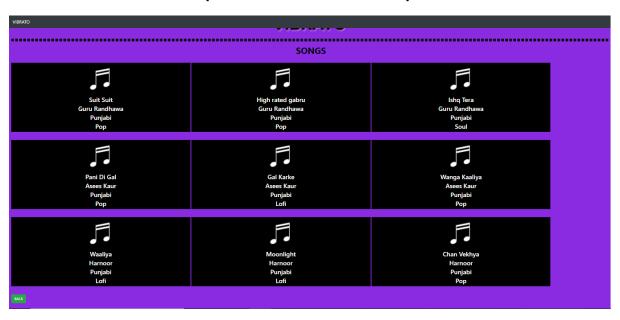
PAGE INSIDE ARTISTS, VIEW BUTTON:



LANGUAGE:



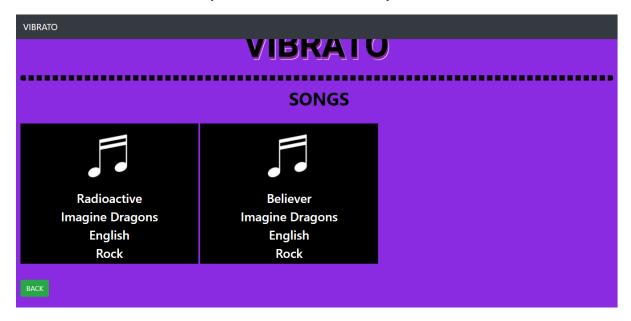
PAGE INSIDE LANGUAGE (ANY LANGUAGE BUTTON)



GENRE



INSIDE GENRE BUTTONS (ANY BUTTON CLICKED)



CONCLUSION:

Concluding the project, the concept of SQL, PHP and front end – HTML, CSS was applied to build the website. Furthermore, in future we will try to add audio interface and feature to add songs in a playlist can also be implemented.

BIBLIOGRAPHY:

www.udemy.com www.stackoverflow.com www.geeksforgeeks.com