
CSD202

Introduction to Database
Systems

PROJECT

Music Recommendation
System



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OBJECTIVE

Music is an instant mood lifter. It touches the soul and helps you connect with people. It heals one's mind. Music takes care of mental needs. It helps in overcoming disabilities of any form.

There are many genres of music like classical, blues, rock, jazz, folk, etc. Every culture has its own music. The classical music in Indian culture is Carnatic and Hindustani. Whatever be the genre, it is all equally soothing.

Music is a vital part of different moments of human life. It spreads happiness and joy in a person's life. Music is the soul of life and gives immense peace to us. In the words of **William Shakespeare**:

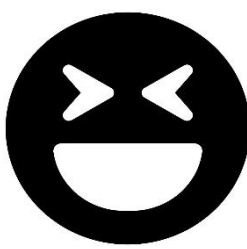
"If music is the food of love, play on, Give me excess of it; that surfeiting, the appetite may sicken, and so die."

Thus, Music helps us in connecting with our souls or real self.

In our project we created a MUSIC RECOMMENDATION SYSTEM, which helps us to choose the desired songs based on our MOOD. The front end of our project is made with the help of HTML, CSS and Bootstrap framework. Here it provides with few emojis those relate our mood.



HAPPY



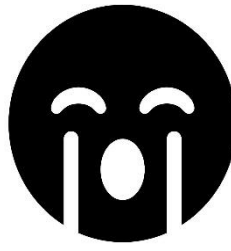
ENERGETIC



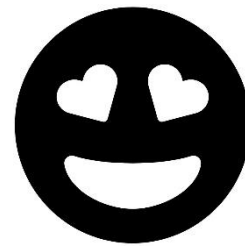
SAD



CALM



DEPRESSED



LOVE

Clicking on a particular emoji, takes us to back end of our project that is done using MySQL and connected using php. Here a list of songs of that particular mood with their links are displayed in a tabular manner with the help of tables created by MySQL.

Clicking on the link, you can go to the desired song and play and enjoy it!!!



FEATURES IMPLEMENTED

The following features have helped our project.

- **DDL**

We used it to create different tables for creating the list of songs. We used alter table statement to add, delete, and modify the columns in the tables. We used drop as a precaution for clearing the pre-existing tables having same name.

Sign Up: We used a table Project_user, which takes details from the users i.e. userid, username, password, mobile_number. It also allows to choose a particular subscription which user can choose based on his/her usage.

- **DML**

We used insert option to give inputs to each entity in a table

- **DQL**

We used select option to showcase the values present in the table.

- **TRIGGERS (Optional)**

We used triggers to **classify** the song type based on duration i.e. if the song is less than 2mins we defined it as a 'short' song; if it is between 2-4mins it is defined as a 'medium' song; above 4mins it is a 'long' song.

- CONNECTIONS

We used php to connect our front-end & back-end of our project.



DATABASE TABLES

```
mysql> create table happy
-> (songname varchar(30) primary key not null,
-> moviename varchar(30),
-> artistcode int,
-> duration FLOAT,
-> songtype varchar(30),
-> language varchar(30),
-> link text(65535) );
Query OK, 0 rows affected (0.66 sec)
```

```
mysql> desc happy;
```

Field	Type	Null	Key	Default	Extra
songname	varchar(30)	NO	PRI	NULL	
moviename	varchar(30)	YES		NULL	
artistcode	int	YES		NULL	
duration	float	YES		NULL	
songtype	varchar(30)	YES		NULL	
language	varchar(30)	YES		NULL	
link	mediumtext	YES		NULL	

```
7 rows in set (0.38 sec)
```



```
mysql> drop table if exists energetic;
Query OK, 0 rows affected, 1 warning (0.03 sec)

mysql> create table energetic
-> (songname varchar(30) primary key not null,
-> moviename varchar(30),
-> artistcode int,
-> duration float,
-> songtype varchar(30),
-> language varchar(30),
-> link text(65535) );
Query OK, 0 rows affected (0.67 sec)
```

```
mysql>
mysql> desc energetic;
```

Field	Type	Null	Key	Default	Extra
songname	varchar(30)	NO	PRI	NULL	
moviename	varchar(30)	YES		NULL	
artistcode	int	YES		NULL	
duration	float	YES		NULL	
songtype	varchar(30)	YES		NULL	
language	varchar(30)	YES		NULL	
link	mediumtext	YES		NULL	

```
7 rows in set (0.00 sec)
```

```
mysql> create table sad
-> (songname varchar(30) primary key not null,
-> moviename varchar(30),
-> artistcode int,
-> duration float,
-> songtype varchar(30),
-> language varchar(30),
-> link text(65535) );
Query OK, 0 rows affected (0.55 sec)
```

```
mysql> desc sad;
```

Field	Type	Null	Key	Default	Extra
songname	varchar(30)	NO	PRI	NULL	
moviename	varchar(30)	YES		NULL	
artistcode	int	YES		NULL	
duration	float	YES		NULL	
songtype	varchar(30)	YES		NULL	
language	varchar(30)	YES		NULL	
link	mediumtext	YES		NULL	

```
7 rows in set (0.00 sec)
```

```
mysql> drop table if exists calm;
Query OK, 0 rows affected, 1 warning (0.03 sec)

mysql> create table calm
->     (songname varchar(30) primary key not null,
->     moviename varchar(30),
->     artistcode int,
->     duration float,
->     songtype varchar(30),
->     language varchar(30),
->     link text(65535) );
Query OK, 0 rows affected (0.59 sec)
```

```
mysql> desc calm;
```

Field	Type	Null	Key	Default	Extra
songname	varchar(30)	NO	PRI	NULL	
moviename	varchar(30)	YES		NULL	
artistcode	int	YES		NULL	
duration	float	YES		NULL	
songtype	varchar(30)	YES		NULL	
language	varchar(30)	YES		NULL	
link	mediumtext	YES		NULL	

```
7 rows in set (0.00 sec)
```

```
mysql> drop table if exists depressed;
Query OK, 0 rows affected, 1 warning (0.03 sec)
```

```
mysql> create table depressed
->     (songname varchar(30) primary key not null,
->     moviename varchar(30),
->     artistcode int,
->     duration float,
->     songtype varchar(30),
->     language varchar(30),
->     link text(65535) );
Query OK, 0 rows affected (0.48 sec)
```

```
mysql> desc depressed;
```

Field	Type	Null	Key	Default	Extra
songname	varchar(30)	NO	PRI	NULL	
moviename	varchar(30)	YES		NULL	
artistcode	int	YES		NULL	
duration	float	YES		NULL	
songtype	varchar(30)	YES		NULL	
language	varchar(30)	YES		NULL	
link	mediumtext	YES		NULL	

```
7 rows in set (0.00 sec)
```

```
mysql> drop table if exists love;
Query OK, 0 rows affected, 1 warning (0.05 sec)
```

```
mysql> create table love
-> (songname varchar(30) primary key not null,
-> moviename varchar(30),
-> artistcode int,
-> duration float,
-> songtype varchar(30),
-> language varchar(30),
-> link text(65535) );
```

```
Query OK, 0 rows affected (0.68 sec)
```

```
mysql> desc love;
```

Field	Type	Null	Key	Default	Extra
songname	varchar(30)	NO	PRI	NULL	
moviename	varchar(30)	YES		NULL	
artistcode	int	YES		NULL	
duration	float	YES		NULL	
songtype	varchar(30)	YES		NULL	
language	varchar(30)	YES		NULL	
link	mediumtext	YES		NULL	

```
7 rows in set (0.00 sec)
```

```
mysql> create table artist
-> (artistcode int primary key not null,
-> artistname varchar(30),
-> songssang int );
```

```
Query OK, 0 rows affected (0.57 sec)
```

```
mysql> desc artist;
```

Field	Type	Null	Key	Default	Extra
artistcode	int	NO	PRI	NULL	
artistname	varchar(30)	YES		NULL	
songssang	int	YES		NULL	

```
3 rows in set (0.00 sec)
```



```
mysql> select * from happy;
```

songname	moviename	artistcode	duration	songtype	language	link
Buttabomma	AlaVaikuntapuramulo	2	3	medium	telugu	https://wynk.in/music/song/buttabomma/am_INA091916753
edojaruguthondhi	fidaa	6	5	long	telugu	https://wynk.in/music/song/edo-jarugutondi/am_INA091715505
anaganaga	hello	2	4	medium	telugu	https://wynk.in/music/song/anaganaganaga/zm_INZ031404115
bujjibangaram	guna	9	3	medium	telugu	https://wynk.in/music/song/bujji-bangaram/am_INA091916560
choosalekallara	srkalyanamandapam	4	3	medium	telugu	https://wynk.in/music/song/choosale-kallaraa/hu_57576689
crazyfeeling	nenusailaja	7	3	medium	telugu	https://wynk.in/music/song/crazy-feeling/am_INA091515013
NeeKannulu	savari	1	2	short	telugu	https://wynk.in/music/song/nee-kannulu/am_INA091916617
NeeKannuneeli	Uppena	3	5	long	telugu	https://wynk.in/music/song/nee-kannu-neeli-samudram/am_INA092016834
nenlocal	nenulocal	8	3	medium	telugu	https://wynk.in/music/album/nenu-local/am_A104000AMTEFA1539M
unnatundigundey	ninnukori	5	4	medium	telugu	https://wynk.in/music/song/unnatundi-gundey/hu_27182416

10 rows in set (0.00 sec)

```
mysql> select * from energetic;
```

songname	moviename	artistcode	duration	songtype	language	link
Bhoombhaddhal	krack	29	4	medium	telugu	https://wynk.in/music/song/bhoom-bhaddhal/hu_60521250
Bombhatt	lie	1	4	medium	telugu	https://wynk.in/music/song/bombhaat/am_INA091715482
Dharichoodu	krishnarjuna	35	3	medium	telugu	https://wynk.in/music/song/dhaari-choodu-from-krishnarjuna-yudham/hu_52098413
Dimaak	ismart	32	4	medium	telugu	https://wynk.in/music/song/dimaak-kharaab/zm_INZ031405700
Ismart	ismart	27	4	medium	telugu	https://wynk.in/music/song/ismart-title-song/zm_INZ031405724
KarmaTheme	uturn	31	3	medium	telugu	https://wynk.in/music/song/the-karma-theme-telugu/sm_A10328E00088160442
Master	master	30	3	medium	telugu	https://wynk.in/music/song/master-coming/sm_A10328E0009853127Q
Mindblock	sarileru	34	4	medium	telugu	https://wynk.in/music/song/mind-block-from/hu_50508822
PsychoSaiyaan	saaho	31	2	short	telugu	https://wynk.in/music/song/psycho-saiyaan-from/hu_48508862
RowdyBaby	maari2	33	4	medium	telugu	https://wynk.in/music/song/rowdy-baby/pp_IND291813168

10 rows in set (0.00 sec)

```
mysql> select * from sad;
```

songname	moviename	artistcode	duration	songtype	language	link
Adigaadiga	Ninnukori	4	3	medium	telugu	https://wynk.in/music/song/adiga-adiga/hu_26774781
Peniviti	AravindaSametha	11	5	long	telugu	https://wynk.in/music/song/peniviti/zm_INZ031404116
Vaaram	ChalMohanRanga	9	3	medium	telugu	https://wynk.in/music/song/vaaram/hu_33973977
Emaipoyave	padipadileche	4	2	short	telugu	https://wynk.in/music/song/emai-poyave/hu_43627622
Lifeofram	jaanu	10	6	long	telugu	https://wynk.in/music/song/life-of-ram/am_INA092016787
MaguvaMaguva	vakeelsaab	4	4	medium	telugu	https://wynk.in/music/song/maguva-maguva/am_INA092016838
Sailajasailaja	Nenusailaja	8	3	medium	telugu	https://wynk.in/music/song/sailaja-sailaja/am_INA091515015
Tharagathigadhi	colourphoto	11	3	medium	telugu	https://wynk.in/music/song/tharagathi-gadhi/am_INA092016931
Vennelavevennelave	Merupukalalu	12	6	long	telugu	https://wynk.in/music/song/vennelave-vennelave-ninne-dhati-vastava/hu_1524004
YemiCheyamanduve	Priyuralupilichindhi	13	5	long	telugu	https://wynk.in/music/song/yemi-cheyamanduve/sa_INH100062680

10 rows in set (0.10 sec)


```
mysql> select * from calm;
```

songname	moviename	artistcode	duration	songtype	language	link
Elluvochigodharamma	Gaddhalakonda	15	3	medium	telugu	https://wynk.in/music/song/elluvochi-godaramma/sa_INH101906311
Hoynahoyna	Gangleader	14	4	medium	telugu	https://wynk.in/music/song/hoyna-hoyna/sm_A10328E00091269346
Babyhelovesyou	aarya2	20	5	long	telugu	https://wynk.in/music/song/baby-he-loves-you/sm_A10328E0005029515N
Emoemo	raahu	4	4	medium	telugu	https://wynk.in/music/song/emo-emo-emo-nannu-taake-haaye-premo/bl_A10320MT033545335M
Iwannafly	krishnarjunayuddham	16	3	medium	telugu	https://wynk.in/music/song/i-wanna-fly/hu_33874729
MaateVinadhuga	taxiwala	4	4	medium	telugu	https://wynk.in/music/song/maate-vinadhuga/am_INA091816090
Neelineeli	30rojullo	17	4	medium	telugu	https://wynk.in/music/song/neeli-neeli-aakasam-from/hu_51547437
Priyathama	majili	5	4	medium	telugu	https://wynk.in/music/song/priyathama-priyathama/am_INA091816411
Sunnraha	aashiqui2	19	6	long	hindi	https://wynk.in/music/song/sunn-raha-hai/hu_1776391
Undipova	savari	18	3	medium	telugu	https://wynk.in/music/song/undipova/am_INA091916723

10 rows in set (0.00 sec)

```
mysql> select * from depressed;
```

songname	moviename	artistcode	duration	songtype	language	link
Bekhayali	kabirsingh	22	6	long	hindi	https://wynk.in/music/song/bekhayali/hu_48273798
Iamwaiting	oy	24	5	long	telugu	https://wynk.in/music/song/waiting-for-you/am_INA090912165
PoPove	raghuvaran	16	3	medium	telugu	https://wynk.in/music/song/po-pove-yekantham/am_INA091414761
Breakupsong	arjunreddy	16	4	medium	telugu	https://wynk.in/music/song/the-breakup-song/lyrics/am_INA091715461
Nammaka	bonmarillu	8	4	medium	telugu	https://wynk.in/music/song/nammaka-tappani/am_INA090930388
Neeyedhalo naaku	aawara	23	4	medium	telugu	https://wynk.in/music/song/nee-yadalo-naaku/sm_A10328E00057847957
Oosupodhu	fidaa	21	4	medium	telugu	https://wynk.in/music/song/oosupodu/am_INA091715507
Povodheprema	oy	23	4	medium	telugu	https://wynk.in/music/song/povodhe-prema/am_INA090912163
Tholiprema	tholiprema	11	4	medium	telugu	https://wynk.in/music/song/toliprema/am_INA091715672
Undiporadhey	husharu	4	2	short	telugu	https://wynk.in/music/album/hushaaru/am_A10400DAMTEFA1678U

10 rows in set (0.00 sec)

```
mysql> select * from love;
```

songname	moviename	artistcode	duration	songtype	language	link
arerey	falaknumadas	4	5	long	telugu	https://wynk.in/music/song/arerey-manasa-from/sm_A10328E0009016544P
babywont	saaho	26	4	medium	telugu	https://wynk.in/music/song/baby-wont-you-tell-me-telugu/hu_49081061
badboy	saaho	28	2	short	telugu	https://wynk.in/music/song/bad-boy-telugu/hu_49054073
chitti	jaathiratnalu	25	3	medium	telugu	https://wynk.in/music/song/chitti/hu_61593737
choosichoodangane	chalo	27	3	medium	telugu	https://wynk.in/music/song/choosi-chudangane/am_INA091715609
kopamga	mrmaajnu	2	4	medium	telugu	https://wynk.in/music/song/koppamga-koppamga/sm_A10328E0008924928X
ninnila	tholiprema	2	3	medium	telugu	https://wynk.in/music/song/ninnila/am_INA091715663
padipadileche	padipadileche	2	3	medium	telugu	https://wynk.in/music/song/padi-padi-leche/hu_41647016
undipo	ismart	27	5	long	telugu	https://wynk.in/music/song/undipo/zm_INZ031405753
yechota	saaho	24	3	medium	telugu	https://wynk.in/music/song/ye-chota-nuvvunna-from/hu_48829406

10 rows in set (0.00 sec)

```
mysql> select * from artist;
```

artistcode	artistname	songssang
1	rahul	10
2	armaan	219
3	javeed	200
4	sid	27
5	chinmay	56
6	renuka	7
7	pruthvi	21
8	sagar	34
9	naziz	23
10	pradeep	13
11	kalabhairava	42
12	hariharan	59
13	shankar	345
14	innogenga	23
15	spb	500
16	revanth	34
17	sunitha	56
18	spoorthi	20
19	ankit	134
20	dsp	156
21	hemachandra	74
22	arjith	200
23	yuvan	12
24	kk	43
25	ram	56
26	swetha	42
27	anurag	48
28	neeti	78
29	mangli	56
30	arivu	45
31	anirudh	23
32	saketh	75
33	dhanush	23
34	blazee	45
35	penchal das	453

```
35 rows in set (0.00 sec)
```



LIMITATIONS

Actually we thought of using Blob datatype to store the required mp3 files. But there were many issues to retrieve it in our code. So for playing the song(s) the user has chosen, we took help from a different online source, **WYNK** (<https://wynk.in/music>).
