



New Arts Commerce and Science College ,Ahmednagar  
Department Of Computer Application(B.C.A.)  
2022-2023



**A PRESENTATION ON**  
**“Hosting Music**  
**Streaming Site on AWS”**

**PRESENTED BY –**

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**UNDER GUIDANCE OF :**  
**PROF. Shaheen Mam**

# OVERVIEW

- Introduction
- Abstract
- Key Features
- Technology Stack
- Future Enhancement
- DFD & ER Diagram
- Database Dictionary
- Screenshots
- Conclusion
- Reference



# DR. DRE

## INTRODUCTION

Embark on a melodious journey with our cutting-edge music streaming platform, a project that redefines simplicity and sophistication in the digital realm of music. This project unveils a streamlined platform, focused on three essential pillars: user login, an extensive repertoire of tracks, and detailed artist information. Our goal is to offer users an uncomplicated and immersive experience, allowing them to seamlessly access and enjoy their favourite tunes without unnecessary complexities. In this report, we delve into the meticulous development process, shedding light on strategic decisions made to ensure secure user logins, an expansive selection of tracks spanning various genres, and a user-friendly interface that places the spotlight on artists.



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# ABSTRACT

Our music streaming platform is designed with a user-friendly approach, emphasizing simplicity and ease of use. The platform includes essential features such as user login, a well-organized catalogue of tracks, and artist names, fostering a minimalist design for enhanced accessibility. Users can create accounts, log in securely, and explore an extensive collection of tracks spanning various genres. The platform's user-centric focus allows for easy navigation, enabling users to discover new artists and curate a personalized music experience. This project report provides insights into the development process, covering design choices, technological aspects, and considerations for user experience.

# KEY FEATURES

- **Search Functionality** : Robust and intuitive search capabilities to enable users to easily discover their favourite tracks, artists, and albums.
- **User Profile** : Option to update profile information and change password for enhanced security.
- **Playlist Management** : Collaborative playlist features, allowing users to share and collaborate on playlists with friends.
- **Explore Section** : Curated and algorithm-driven recommendations for discovering new tracks, artists, and genres.
- **Singles and Albums** : Dedicated sections for singles and albums, providing users with easy access to individual tracks or entire collections.

# TECHNOLOGY STACKS

- **FRONTEND:**

- **HTML/CSS:** THE FUNDAMENTAL BUILDING BLOCKS FOR STRUCTURING AND STYLING THE WEB PAGES, PROVIDING A USER-FRIENDLY INTERFACE.
- **JAVASCRIPT:** ENHANCING INTERACTIVITY, ENABLING DYNAMIC CONTENT UPDATES, AND HANDLING CLIENT-SIDE FUNCTIONALITIES FOR A RESPONSIVE AND ENGAGING USER EXPERIENCE.

- **BACKEND:**

- **PHP:** SERVING AS THE SERVER-SIDE SCRIPTING LANGUAGE TO HANDLE USER REQUESTS, PROCESS DATA, AND INTERACT WITH THE DATABASE.
- **MYSQL:** A RELATIONAL DATABASE MANAGEMENT SYSTEM USED TO EFFICIENTLY STORE AND RETRIEVE USER DATA, PLAYLISTS, TRACK INFORMATION, AND OTHER RELEVANT CONTENT.

- **WEB SERVER:**

- **APACHE:** PROVIDING A RELIABLE WEB SERVER ENVIRONMENT TO HOST AND SERVE THE PHP-BASED WEB APPLICATION.

- **DEVELOPMENT TOOLS:**

- **CODE EDITOR (VISUAL STUDIO CODE):** PROVIDING A FEATURE-RICH ENVIRONMENT FOR WRITING, EDITING, AND MANAGING CODE FILES.

- **CLOUD HOSTING:**

- **AWS :AMAZON EC2** PROVIDES SECURE, RESIZABLE COMPUTE IN THE CLOUD, OFFERING THE BROADEST CHOICE OF PROCESSOR, STORAGE, NETWORKING, OS, AND PURCHASE MODEL.



# FUTURE ENHANCEMENT

## **1. Artist Login:**

- Artists can upload and manage their discography, update biographical information, and engage with their fanbase.

## **2. Label Login:**

- Implement a separate login system for music labels, providing them with tools to manage their signed artists, track performance metrics, and contribute to promotional activities on the platform.

## **3. Social Integration:**

- Integrate social media features to allow users, artists, and labels to share music, playlists, and achievements on external platforms. This promotes community engagement and expands the platform's reach.

## **4. Offline Listening:**

- Enable users to download tracks for offline listening, enhancing accessibility for users in areas with limited internet connectivity or during travel.

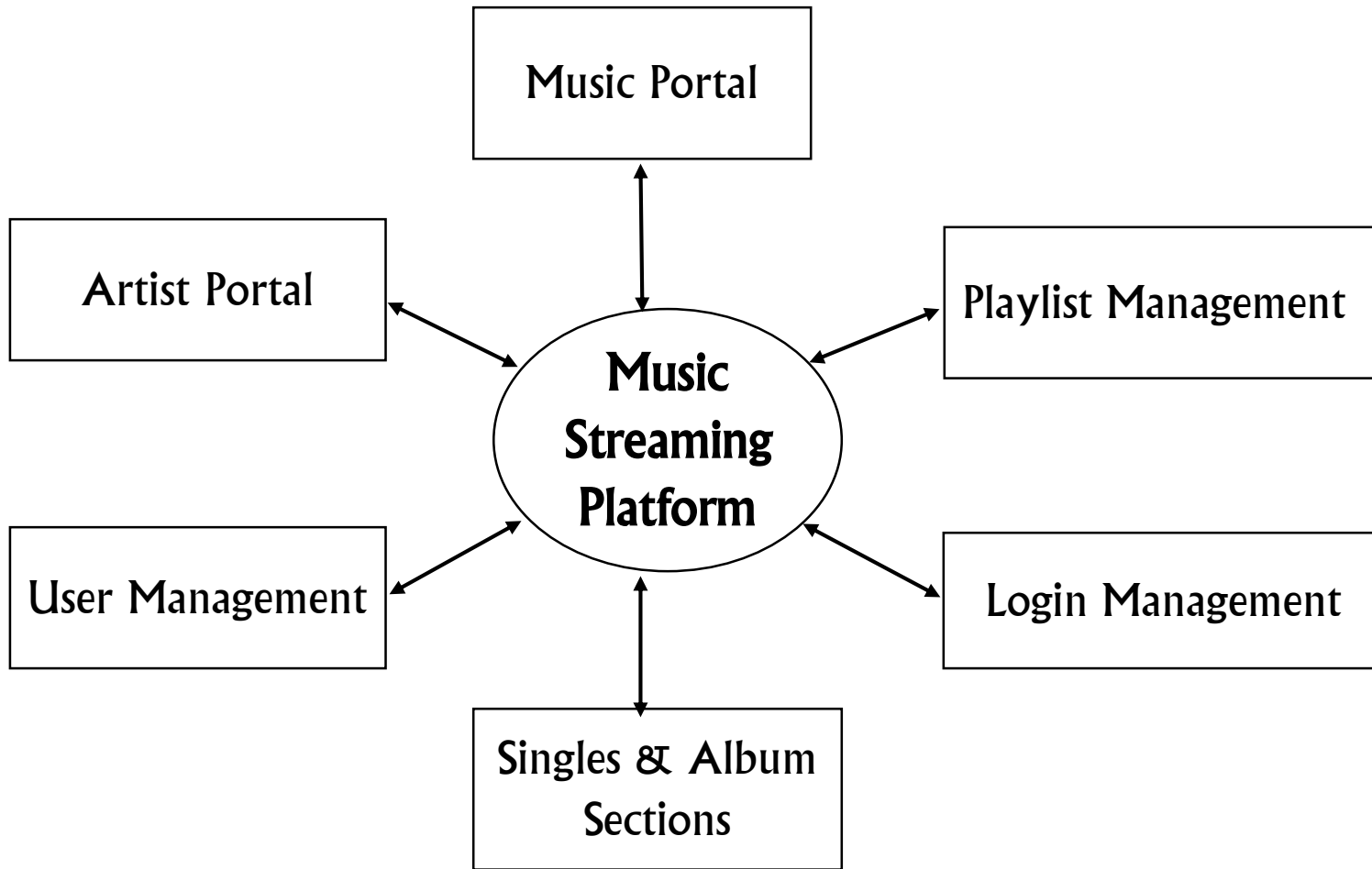
## **5. Lyrics Integration:**

- Partner with lyric databases to integrate lyrics into the platform, allowing users to follow along with their favorite songs. This feature enhances the overall music discovery experience.

## **6. Recommendation Algorithms:**

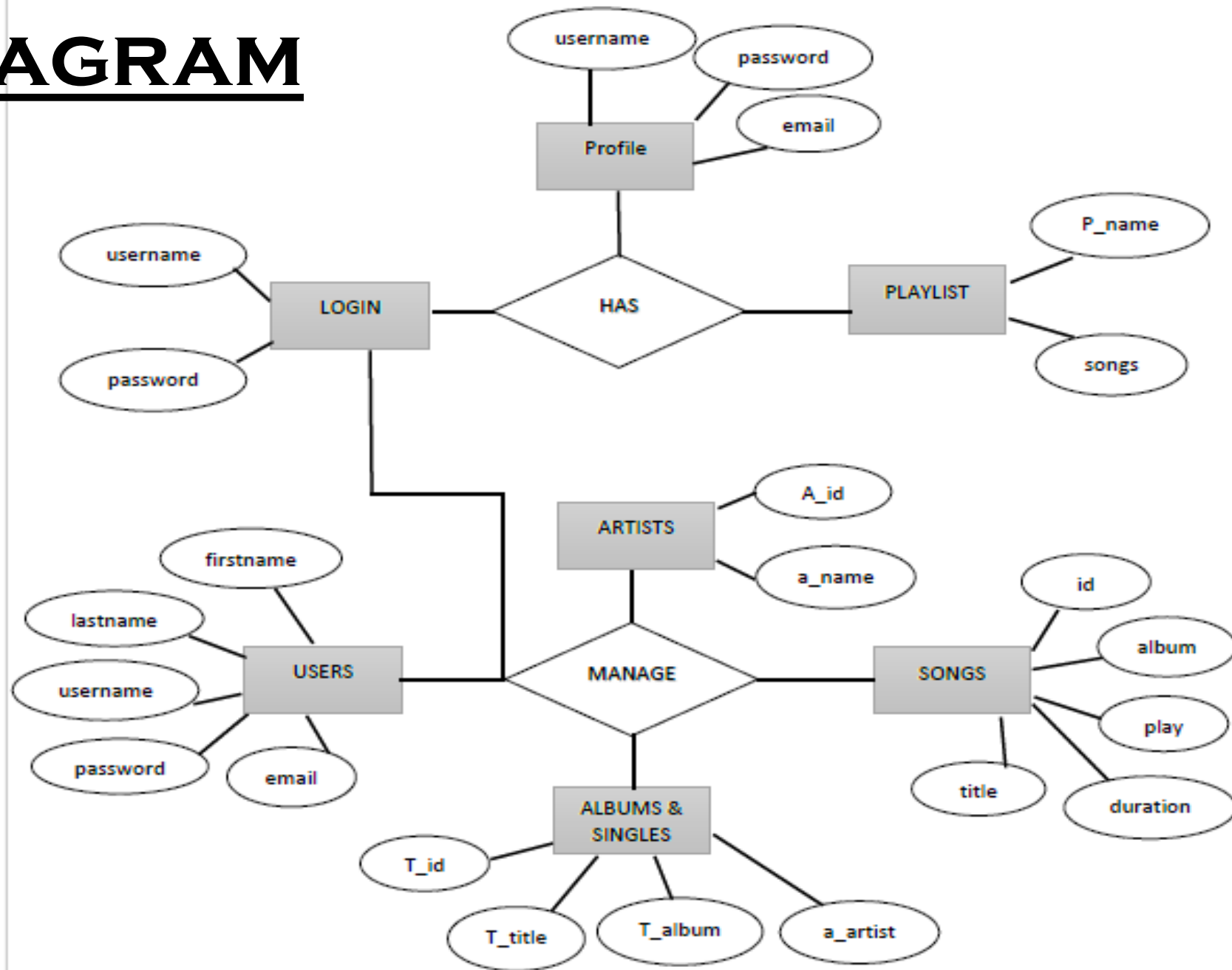
- Enhance recommendation algorithms by incorporating machine learning and artificial intelligence techniques to provide more accurate and personalized music suggestions.

# DFD DIAGRAM





# ER DIAGRAM



# AWS INSTANCE DICTIONARY

▶ (190) Umair & Talha Anjum - No

Instances | EC2 | ap-south-1

+

< > ↺

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:

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aws

Services

🔍 Search

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Mumbai ▾

ghanashyamauti ▾

EC2 Dashboard

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Instances (1) Info

🔄 Connect Instance state ▾ Actions ▾ Launch instances ▾

🔍 Find Instance by attribute or tag (case-sensitive)

Any state ▾ < 1 > ⚙️

<input type="checkbox"/>	Name ✎ ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Z
<input type="checkbox"/>	Music_Player	i-07bded8b2bd2995d5	🟢 Running 🔍 🔍	t2.micro	🟢 2/2 checks passed	View alarms +	ap-south-1a

Select an instance

CloudShell Feedback

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🌤️ 31°C Sunny ^ 📶 🔋 🔌 🗂️ 🗂️

02:41 PM 19-02-2024 1

# AWS INSTANCE DICTIONARY

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Instance details | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstanceDetails:instanceId=i-0...

VPN

aws

Services

Search

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⚙️

Mumbai

ghanashyamauti

EC2 > Instances > i-07bded8b2bd2995d5

Instance summary for i-07bded8b2bd2995d5 (Music\_Player) Info

🔄

Connect

Instance state ▼

Actions ▼

Updated less than a minute ago

Instance ID 📄 i-07bded8b2bd2995d5 (Music_Player)	Public IPv4 address 📄 65.2.187.116 <a href="#">open address</a>	Private IPv4 addresses 📄 172.31.39.93
IPv6 address -	Instance state 🟢 Running	Public IPv4 DNS 📄 ec2-65-2-187-116.ap-south-1.compute.amazonaws.com <a href="#">open address</a>
Hostname type IP name: ip-172-31-39-93.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) 📄 ip-172-31-39-93.ap-south-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding 🔔 Opt-in to AWS Compute Optimizer for recommendations. <a href="#">Learn more</a>
Auto-assigned IP address 📄 65.2.187.116 [Public IP]	VPC ID 📄 vpc-0d047932d8b9b45ce	Auto Scaling Group name
IAM Role	Subnet ID	



# DATABASE DICTIONARY

localhost / 127.0.0.1 / music\_pla x

localhost/phpmyadmin/index.php?route=/database/structure&db=music\_player

Server: 127.0.0.1 Database: music\_player

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers More

Filters

Containing the word:

	Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/>	albums	★ Browse Structure Search Insert Empty Drop	10	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/>	artists	★ Browse Structure Search Insert Empty Drop	9	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/>	genres	★ Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/>	playlists	★ Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/>	playlistsongs	★ Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/>	songs	★ Browse Structure Search Insert Empty Drop	20	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/>	users	★ Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16.0 KiB	-
	7 tables	Sum	45	InnoDB	utf8mb4_general_ci	112.0 KiB	0 B

☐ Check all With selected:

Print Data dictionary

Create new table

Table name  Number of columns

Console

Type here to search

22°C Partly cloudy 08:31 PM 01-02-2024

# DATABASE DICTIONARY

localhost / 127.0.0.1 / music\_pla

localhost/phpmyadmin/index.php?route=/sql&db=music\_player&table=users&pos=0

Server: 127.0.0.1 » Database: music\_player » Table: users

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT * FROM `users`
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

		id	userName	firstName	lastName	email	password	signUpDate	profilePic	
<input type="checkbox"/>	Edit	Copy	Delete	0	ghanashyam_auti	Ghanashyam Auti	Gnauti79@gmail.com	8664dc82e2060cc084ee3ec78de4afb6	2024-01-26 00:00:00	assets/images/pr pics/head_emerc

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

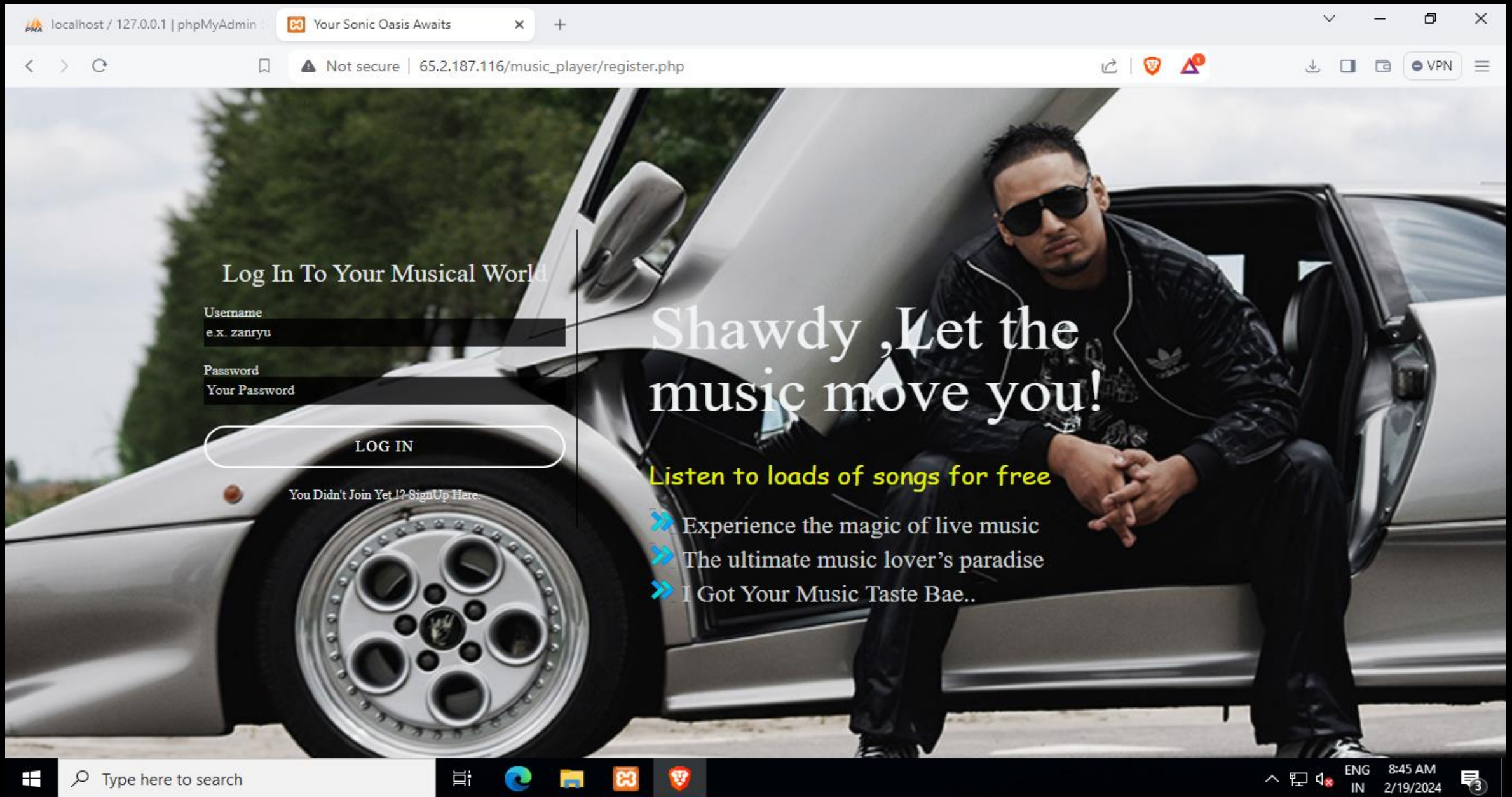
Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Console ☐ Let every user access this bookmark

Windows taskbar: Type here to search, 22°C Partly cloudy, 08:31 PM, 01-02-2024

# SCREENSHOTS – LOGIN PAGE





# SCREENSHOTS – SIGN UP PAGE

localhost / 127.0.0.1 | phpMyAdmin Your Sonic Oasis Awaits

Not secure | 65.2.187.116/music\_player/register.php

VPN

Your Free Account Awaits Here!

Username  
e.x. zanryu

First name  
e.x. ryujin

Last name  
e.x. raijin

Email  
e.x. zanryu@jp.com

Confirm email  
e.x. zanryu@jp.com

Password  
Your password

Confirm password  
Your password

SIGN UP

Already You Joined? [Log In Here.](#)

Shawdy ,Let the music move you!

Listen to loads of songs for free

- » Experience the magic of live music
- » The ultimate music lover's paradise
- » I Got Your Music Taste Bae..

Type here to search

8:46 AM 2/19/2024

# SCREENSHOTS – INTERFACE

localhost / 127.0.0.1 | phpMyAdmin

Your Musical Sonic Melodies

Not secure | 65.2.187.116/music\_player/browse.php?

VPN

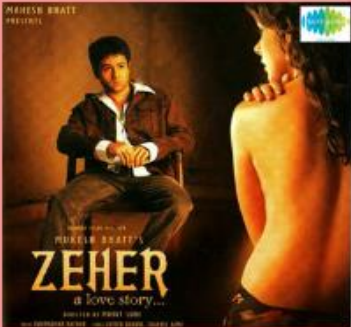
## You Must Check This Out Guys !

Search


Explore

Playlist


Ghanashyam Auti




Woh Lamhe




Drama




Desi Kalakaar ALBUM




Coco




Phir Mohabbat




Nakhre



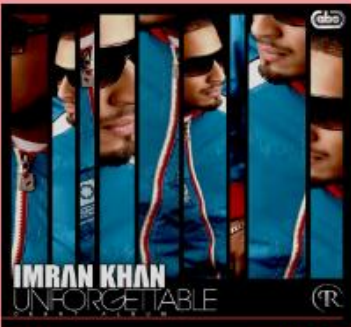
Aajkal




Candy Shop



On My Way



Unforgettable ALBUM



Drama  
Ghanashyam

0:07 0:45

Type here to search

ENG IN 8:49 AM 2/19/2024



# SCREENSHOTS – PROFILE PAGE

The screenshot shows a web browser window with the following elements:

- Browser Tabs:** The first tab is titled "Your Musical Sonic Melodies". The address bar shows the URL "65.2.187.116/music\_player/settings.php?".
- Left Sidebar:** A dark sidebar contains a play button icon, a search icon, and a list of menu items: "Search", "Explore", "Playlist", and "Ghanashyam Auti".
- Main Content Area:** The background is a solid light red color. It features the text "Ghanashyam Auti" in a large, bold, white font. Below this text are two rounded rectangular buttons: "USER DETAILS" and "LOGOUT".
- Video Player:** At the bottom of the browser window, there is a video player interface. It shows a thumbnail of a person, the title "Drama Ghanashyam", and a progress bar with a play/pause button and other controls. The progress bar indicates a duration of 0:20 to 0:33.
- Windows Taskbar:** The bottom of the screen shows the Windows taskbar with the Start button, a search bar, and several pinned application icons (Edge, File Explorer, and a game icon).



# SCREENSHOTS – A SINGLE TRACK

localhost / 127.0.0.1 | phpMyAdmin | Your Musical Sonic Melodies x +

< > ↺ Not secure | 65.2.187.116/music\_player/album.php?id=10

🎵 ⬇️ 📺 📁 VPN ☰


▶

Search 🔍

Explore

Playlist

Ghanashyam Auti




**Drama**

By Ghanashyam

1 songs

1 Drama 0:52

Ghanashyam



Drama

Ghanashyam

0:47 0:06

🔊

Windows Taskbar: Type here to search | 🖨️ 🌐 📁 📅 📶

System Tray: ^ 🖨️ 🔊 🌐 ENG IN 8:49 AM 2/19/2024 3


# SCREENSHOTS – AN ALBUM

localhost / 127.0.0.1 | phpMyAdmin | Your Musical Sonic Melodies

Not secure | 65.2.187.116/music\_player/album.php?id=5

Search  
Explore  
Playlist  
Ghanashyam Auti

**Desi Kalakaar ALBUM**  
By Yo Yo Honey Singh  
7 songs



1	Desi Kalakaar Yo Yo Honey Singh	4:18
2	Love Dose Yo Yo Honey Singh	3:48
3	One Thousand Miles Yo Yo Honey Singh	4:47
4	Stardom Yo Yo Honey Singh	3:47
5	IM Your Dj Tonight	4:41

Drama  
Ghanashyam

0:14 0:38

Type here to search

ENG IN 8:50 AM 2/19/2024

# SCREENSHOTS – SEARCH BAR

localhost / 127.0.0.1 | phpMyAdmin | Your Musical Sonic Melodies x +

Not secure | 65.2.187.116/music\_player/search.php?term=drama

Search For An artist, Album or Song  
drama


**SONGS**

1	Drama Ghanashyam	0:52
---	---------------------	------

**ARTISTS**

No artists found matching drama

**ALBUMS**

 Drama  
Ghanashyam

0:18 0:34

Type here to search

ENG IN 8:57 AM 2/19/2024



# SCREENSHOTS – ARTIST'S PAGE

The screenshot shows a web browser window with the address bar displaying 'localhost / 127.0.0.1 | phpMyAdmin' and 'Your Musical Sonic Melodies'. The main content area is titled 'Imran Khan' and features a 'PLAY' button. Below this, a section titled 'SONGS' lists four tracks:

1	2	3	4
On My Way	Amplifier	Aaja We Mahiya	Ni Nachleh
Imran Khan	Imran Khan	Imran Khan	Imran Khan
3:31	3:52	3:52	3:35

The bottom of the browser window shows a Windows taskbar with the search bar, taskbar icons, and system tray information including the date and time (8:58 AM, 2/19/2024).

# SCREENSHOTS – PLAYLIST PAGE

localhost / 127.0.0.1 | phpMyAdmin | Your Musical Sonic Melodies x +

Not secure | 65.2.187.116/music\_player/playlist.php?id=1

VPN

**Search**  
**Explore**  
**Playlist**  
**Ghanashyam Auti**

**My Sound**  
By ghanashyam\_auti  
3 songs  
[DELETE PLAYLIST](#)

1	Phir Mohabbat Emraan Hashmi	5:31
2	Candy Shop 50Cent	3:59
3	Woh Lamhe Atif Aslam	5:50

**Drama**  
**Ghanashyam**

0:38 0:14

Type here to search

ENG IN 8:59 AM 2/19/2024

# CONCLUSION

Our music streaming site, with features like user login, extensive track library, and artist information, ensures a personalized and diverse musical experience. The project prioritizes user-friendliness, performance optimization, and responsive design. Moving forward, we aim to continually improve and innovate, taking user feedback into account, and expanding features to create a vibrant music community. In essence, our platform harmoniously blends technology and artistry, fostering a universal love for music.





# REFERENCES

- Draw.Ai <https://app.diagrams.net/>
- BlackBox AI <https://www.blackbox.ai/>
- XAMPP <https://www.apachefriends.org/index.html>
- PhpMyAdmin. <https://www.phpmyadmin.internet/>
- ChaGPT <https://www.chat.openai.com/>
- Amazon Web Services <https://aws.amazon.com/ec2/>



# THANK YOU!

