



PROJECT REPORT  
Programming Fundamentals (SE-102L)  
DEPARTMENT OF SOFTWARE  
ENGINEERING

**RHYTHM RANG**  
SONGS & VIDEOS

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# ABOUT RHYTHM RANG

**RHYTHM RANG**  
SONGS & VIDEOS

HOME SONGS VIDEOS ALBUMS ARTISTS

Abdul Rehman



Wanna Listen YES YOU ARE AT THE RIGHT PLACE

**ENJOY!**

**LATEST SONGS**

**View More**

NEW	Dil Meri Na Sune	Atif Aslam
NEW	Dekhte Dekhte	Atif Aslam
NEW	Dil Diyan Gallan	Atif Aslam
NEW	Jab Koi Baat	Atif Aslam
NEW	Jeena Jeena	Atif Aslam
NEW	Jeene Laga	Atif Aslam

**LATEST VIDEOS**

**View More**

NEW	Kesariya	Arijit Singh
NEW	PASOORI	Coke Studio I.
NEW	Mitti De Tibbe	Kaka
NEW	CARNIVAL UNIVERSE	King
NEW	BAMB AAGYA	Jasmine Sandlas
NEW	Vaaste	Ervan

Rhythm Rang is an audio and video music platform designed to enhance your listening experience. Our intelligent chatbot offers personalized song recommendations to match your mood and style. Discover, stream, and enjoy music that keeps you in the groove!

# ABOUT RHYTHM RANG

## PROJECT PURPOSE

Rhythm Rang is built to offer a platform where users can easily discover and enjoy audio and video music. The app's goal is to help users find songs that match their taste through smart chatbot recommendations. It aims to make music streaming fun and personalized for everyone. The purpose is to keep users engaged with a variety of music options and easy navigation. Rhythm Rang is designed to be the ultimate go-to music experience.

## PROJECT OBJECTIVE

The goal is to develop a simple and user-friendly music app that offers both audio and video streaming. We want to use a chatbot that helps users find the best songs based on their preferences. Our aim is to provide smooth and fast music discovery, with options for everyone's tastes. The app will also allow users to stay up-to-date with the latest music trends. We plan to keep the app easy to use and constantly improving.

## •DEVELOPMENT EFFORT TRIGGERED REQUIREMENT

To build Rhythm Rang, we need to set up strong media streaming services that support both audio and video formats. We will need to create a chatbot that accurately recommends songs based on user input and preferences. A clean and easy-to-use interface must be designed for smooth navigation. The app's backend systems will have to ensure fast, high-quality streaming with minimal buffering. Security and data privacy measures must be implemented to protect user information.

# LANGUAGES & TECHNOLOGIES USED

## OPTIONS

**BACKEND LANGUAGES**

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**FRAMEWORK**

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**GUI/FRONTEND**

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**DATABASE**

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## USED

**PYTHON & PHP**

---

**FLASK**

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**HTML, CSS, JS, BOOTSTRAP**

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**MYSQL XAMPP SERVER**

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# PLAN OF WORK

Rhythm Rang is a cutting-edge music application designed to revolutionize the way people experience music. Combining audio and video streaming, it caters to diverse musical tastes, offering a rich library of songs and music videos. The standout feature is its AI-powered chatbot, which provides personalized song recommendations based on user preferences, mood, or activity. With an intuitive design, Rhythm Rang ensures seamless navigation, high-quality streaming, and a personalized music journey. It aims to be more than just a music app—it's a companion that understands your rhythm and helps you explore the world of music effortlessly.

## INFORMATION GATHERING:

- **Images and Visuals:** Pictures and graphics used for the project are sourced from [Pixabay](#).
- **Designs and Prototypes:** User interface designs and layouts are created using [Canva](#) for an appealing and intuitive design.
- **Classes and Attributes Design:** The structure for the backend, including classes for users, playlists, and song recommendations, is carefully planned for seamless performance and scalability.

**GROUP  
MEMBERS**

**CONTRIBUTION OF EACH PERSON**

Abdul Rehman

Planned project activities and designed the interface layout.  
Designed the GUI for a user-friendly front-end interface.  
Developed and managed the database backend.  
Assisted in report writing, including SQL queries for operations.

Sarim Mustafa

Collaborated with a team member for information gathering, design, and implementation.  
Contributed to project report writing, including project scheduling.  
Designed the front-end interface (GUI) for a seamless user experience.

Faiz Alam

Gathered information and collaborated on designing and implementation tasks.  
Contributed to project report writing, covering chatbot intents and functionalities.  
Designed chatbot intents to ensure accurate and user-friendly interactions.

# PROJECT CODE

## APP.PY

```
from flask import Flask, render_template, request, jsonify
from flask_cors import CORS
from chat import get_response

app = Flask(__name__)
CORS(app)

@app.post("/predict")
def predict():
    text = request.get_json().get("message")
    response = get_response(text)
    message = {"answer": response}
    return jsonify(message)

if __name__ == "__main__":
    print("Server is running! Access it at http://127.0.0.1:5000")
    app.run(debug=True)
```

## HOME.HTML

```
home.php ×
user > home.php > ...
110 <div></div>
117
118 <div class="container" style="display: flex; justify-content: center; align-items: center;">
119
120   <h4 class="wordCarousel">
121     <span>Wanna Listen </span>
122     <div>
123       <!-- Use classes 2,3,4, or 5 to match the number of words -->
124       <ul class="flip5">
125         <li>YES YOU ARE AT THE RIGHT PLACE</li>
126         <li>COOL SONGS?</li>
127         <li>AMAZING SONGS?</li>
128         <li>SQUIRELL SONGS?</li>
129         <li>ENTERTAINING SONGS?</li>
130         <li>SAD SONGS?</li>
131       </ul>
132     </div>
133   </h4>
134
135
136
137 </div>
138 <br>
139 <div class="container" style="display: flex; justify-content: center; align-items: center;">
140 <div class="deconstructed">
141   ENJOY!
142   <div>ENJOY!</div>
143   <div>ENJOY!</div>
144   <div>ENJOY!</div>
145   <div>ENJOY!</div>
146   </div>
147 </div>
148
```

# PROJECT CODE

```
<?php $i = 1;
while ($row = mysqli_fetch_assoc($select_run_6)) { ?>

- 

!\[\]\(../admin2/pages/songimage/<?php echo \$row\[\)



###### <?php echo $row["title"] ?>



<?php echo $row["artist"] ?>

<?php $i++;
} ?>

| </ul>
</div>
</div>
</div>
<br><br>

<div id="wrapper">
<div id="container">

    | <h1 class="title-textt">TRENDING VIDEOS</h1>
    | </div>
    | </div>
    | <br>
    | </div>
    <div class="d-flex align-items-center iq-view">
        | <b class="mb-0 text-primary"><a href="videos.php">View More <i class="las la-angle-right"></i></a></b>
    </div>
    <div class="iq-card-body">
        <ul class="list-unstyled row iq-box-hover mb-0">

<?php $i = 1;
while ($row = mysqli_fetch_assoc($select_run_5)) { ?>

- !\[\]\(../admin2/pages/videoimage/<?php echo \$row\[\)



###### <?php echo $row["title"] ?>



<?php echo $row["artist"] ?>

<?php $i++;
} ?>
```

Activate Window  
Go to Settings to activa

# PROJECT CODE

## STYLE.CSS

```

.modal-backdrop {
  position: fixed;
  top: 0;
  left: 0;
  z-index: 1040;
  width: 100vw;
  height: 100vh;
  background-color: #000;
}
.modal-backdrop.fade {
  opacity: 0;
}
.modal-backdrop.show {
  opacity: 0.5;
}

.modal-header {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: start;
  -ms-flex-align: start;
  align-items: flex-start;
  -webkit-box-pack: justify;
  -ms-flex-pack: justify;
  justify-content: space-between;
  padding: 1rem 1rem;
  border-bottom: 1px solid #dee2e6;
  border-top-left-radius: 0.3rem;
  border-top-right-radius: 0.3rem;
}
.modal-header .close {
  padding: 1rem 1rem;
  margin: -1rem -1rem auto 0;
}

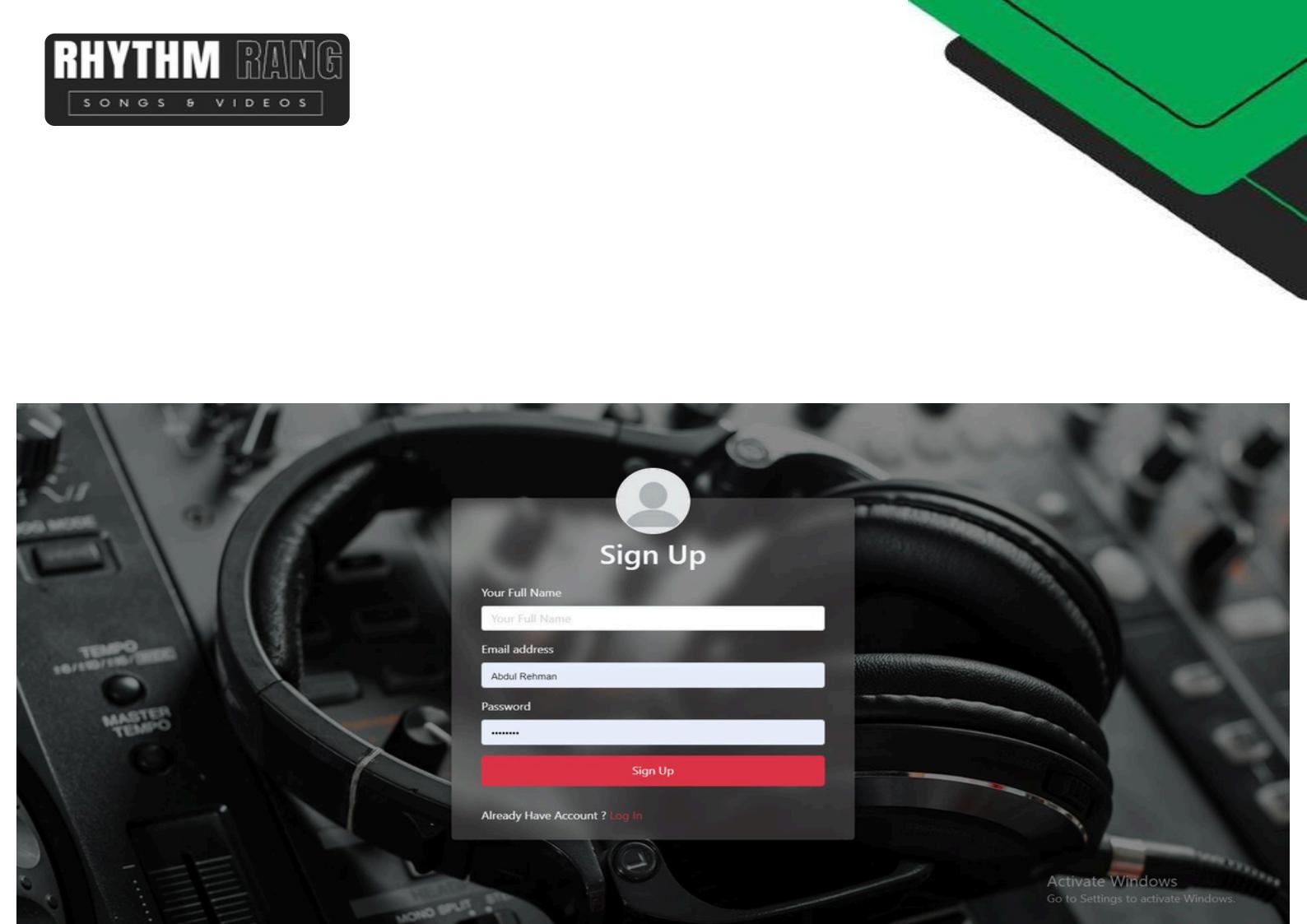
.modal-title {
  margin-bottom: 0;
  line-height: 1.5;
}

  text-align: start;
  text-decoration: none;
  text-shadow: none;
  text-transform: none;
  letter-spacing: normal;
  word-break: normal;
  word-spacing: normal;
  white-space: normal;
  line-break: auto;
  font-size: 0.875rem;
  word-wrap: break-word;
  opacity: 0;
}
.tooltip.show {
  opacity: 0.9;
}
.tooltip .arrow {
  position: absolute;
  display: block;
  width: 0.8rem;
  height: 0.4rem;
}
.tooltip .arrow::before {
  position: absolute;
  content: "";
  border-color: transparent;
  border-style: solid;
}

.bs-tooltip-top, .bs-tooltip-auto[x-placement^="top"] {
  padding: 0.4rem 0;
}
.bs-tooltip-top .arrow, .bs-tooltip-auto[x-placement^="top"] .arrow {
  bottom: 0;
}
.bs-tooltip-top .arrow::before, .bs-tooltip-auto[x-placement^="top"] .arrow::before {
  top: 0;
  border-width: 0.4rem 0.4rem 0;
  border-top-color: #000;
}

.bs-tooltip-right, .bs-tooltip-auto[x-placement^="right"] {
  padding: 0 0.4rem;
}
.bs-tooltip-right .arrow, .bs-tooltip-auto[x-placement^="right"] .arrow {
  left: 0;
  width: 0.4rem;
  height: 0.8rem;
}
.bs-tooltip-right .arrow::before, .bs-tooltip-auto[x-placement^="right"] .arrow::before {
  right: 0;
  border-width: 0.4rem 0 0 0.4rem;
  border-right-color: #000;
}

  padding-bottom: 1.5rem;
  padding-left: 20px;
  padding-right: 20px;
  font-weight: 500;
  color: #fff;
  text-transform: uppercase;
  letter-spacing: 2px;
  position: relative;
  opacity: 1 !important;
}
.ftco-navbar-light .navbar-nav > .nav-item > .nav-link::before {
  position: absolute;
  bottom: 0;
  left: 0;
  content: '';
  display: block;
  width: 0;
  height: 2px;
  background: #ff0000;
  -webkit-transition: 0.3s;
  -o-transition: 0.3s;
  transition: 0.3s;
}
@media (prefers-reduced-motion: reduce) {
  .ftco-navbar-light .navbar-nav > .nav-item > .nav-link::before {
    -webkit-transition: none;
    -o-transition: none;
    transition: none; }
}
.ftco-navbar-light .navbar-nav > .nav-item > .nav-link:hover {
  color: #ff0000;
}
.ftco-navbar-light .navbar-nav > .nav-item > .nav-link:hover::before {
  width: 100%; }
@media (max-width: 991.98px) {
  .ftco-navbar-light .navbar-nav > .nav-item > .nav-link {
    padding-left: 0;
    padding-right: 0;
    padding-top: .7rem;
    padding-bottom: .7rem;
    color: rgba(255, 255, 255, 0.7); }
  .ftco-navbar-light .navbar-nav > .nav-item > .nav-link:hover {
    color: #fff; }
}
@media (max-width: 767.98px) {
  .ftco-navbar-light .navbar-nav > .nav-item > .nav-link {
```



## Sign Up

Your Full Name

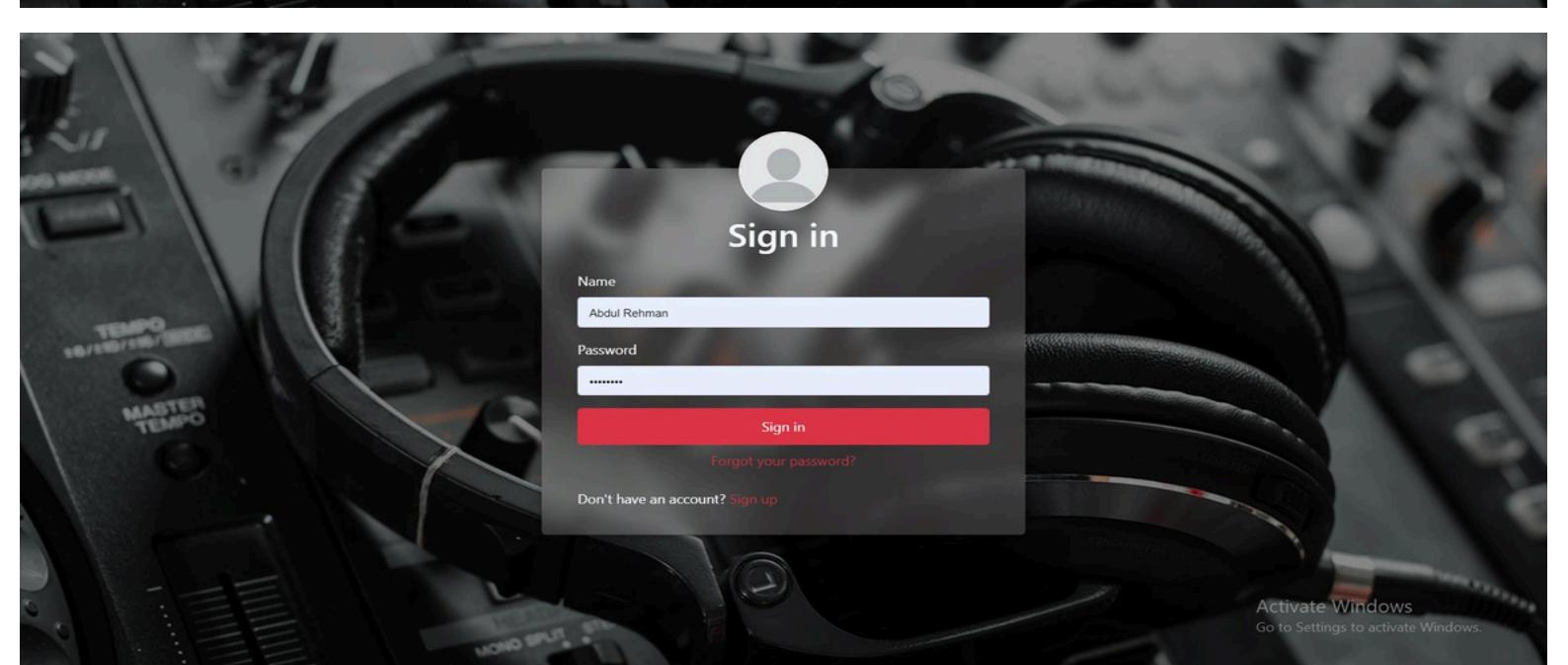
Email address

Password

[Sign Up](#)

[Already Have Account? Log In](#)

Activate Windows  
Go to Settings to activate Windows.



## Sign in

Name

Password

[Sign in](#)

[Forgot your password?](#)

[Don't have an account? Sign up](#)

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## HOME.HTML

TOP BEST ARTIST

**NFAK**

See More

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## CATEGORIES.HTML

LATEST SONGS

Dil Meri Na... Atif Aslam

Dekhte Dekhte Atif Aslam

Dil Diyan... Atif Aslam

Jab Koi Baat Atif Aslam

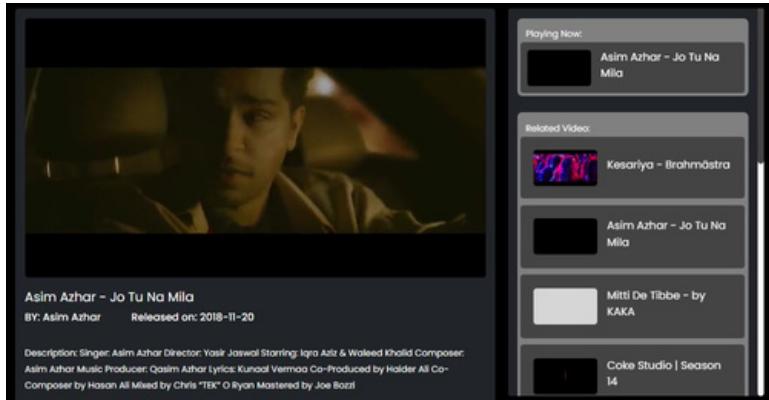
Jeena Jeena Atif Aslam

Jeene Laga... Atif Aslam

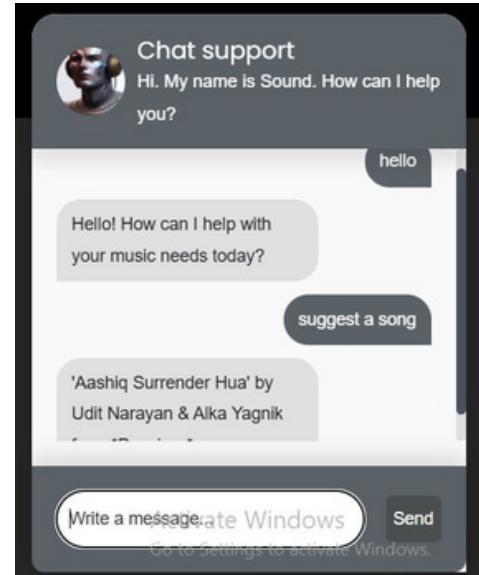
LATEST VIDEOS

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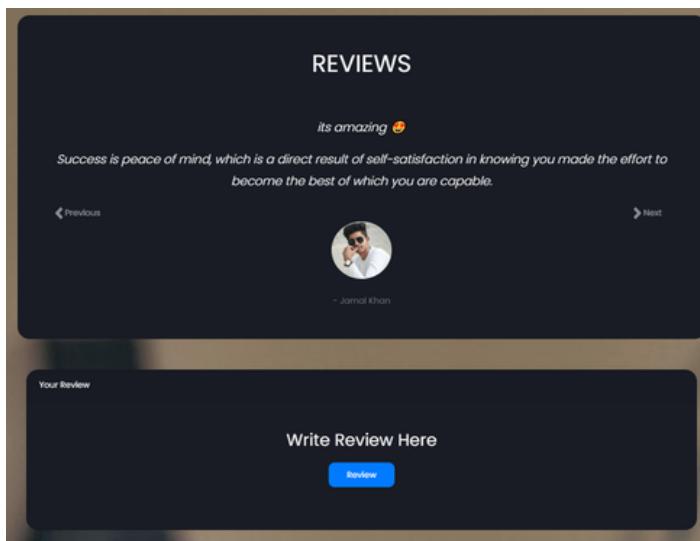
## VIDEO PLAYER



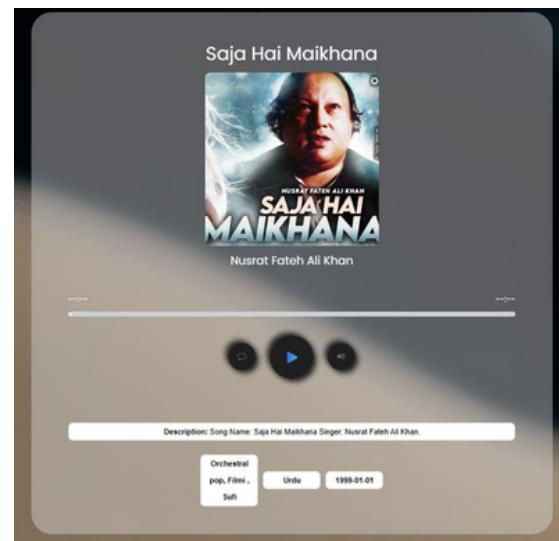
## CHATBOT



## REVIEWS



## MUSIC PLAYER



## USER PROFILE



**Abdul Rehman**

rehmanabdul1445@gmail.com

f
t
in
o

**Personal Details**

Name	Abdul Rehman
Birthday	10-jan-2004
Country	Pakistan
City	Karachi
Phone	03406886905
Email	rehmanabdul1445@gmail.com

Personal Information
Change Password
Manage Contact

Personal Information
Activate Windows

Go to Settings to activate Windows.

## ADMIN PANEL

**SOUND**



Abdul Rehman  
rehmanabdul1445@gmail.com

Search Songs

**Dashboard**

21
Total Songs

11
Music Artist

9
Music Genres

4
Languages

**Reviews**

 <p>Abdul Rehman</p>	I just Love it 😍
 <p>Abdul Rehman</p>	I just Like it 😊
 <p>Abdul Rehman</p>	One good thing about music, when it hits you, you feel no pain.
 <p>admin</p>	its amazing rally 😊 😊

**Upcoming Songs**



Releasing On: 2022-12-30

**Add Song**

21 Total Songs


**Add Video**

14 Total Videos


localhost/e-connect/Admin2/names/dashboard.php

phpMyAdmin Server: 127.0.0.1 Database: sound

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking Designer Central columns Untitled \*

New abdulrehman admin information\_schema mysql performance\_schema phpmyadmin sound New admin album artist artistquotes genres languages songs upcoming video test users

sound admin	sound songs	sound video	sound bannerimages
<code>id : int(11)</code>	<code>id : int(11)</code>	<code>id : int(11)</code>	<code>id : int(11)</code>
<code>name : varchar(250)</code>	<code>album : varchar(250)</code>	<code>image : varchar(250)</code>	<code>image : text</code>
<code>email : varchar(250)</code>	<code>image : varchar(250)</code>	<code>video : varchar(250)</code>	<code>text : varchar(1000)</code>
<code>password : varchar(250)</code>	<code>title : varchar(250)</code>	<code>title : varchar(250)</code>	<code>title : varchar(250)</code>
<code>role : varchar(250)</code>	<code>artist : varchar(250)</code>	<code>description : varchar(1000)</code>	<code>link : varchar(500)</code>
<code>image : varchar(250)</code>	<code>song : varchar(250)</code>	<code>date : text</code>	
<code>phone : text</code>	<code>genre : varchar(250)</code>	<code>artist : varchar(250)</code>	
<code>birthday : varchar(250)</code>	<code>language : varchar(250)</code>	<code>genre : varchar(250)</code>	
<code>country : varchar(50)</code>	<code>date : text</code>	<code>language : varchar(250)</code>	
<code>city : varchar(50)</code>	<code>description : varchar(250)</code>		
<code>linkedin : varchar(50)</code>			
<code>twitter : varchar(50)</code>			
<code>pinterest : varchar(50)</code>			
<code>facebook : varchar(50)</code>			

sound artist	sound album	sound genres	sound artistquotes
<code>id : int(11)</code>	<code>id : int(11)</code>	<code>id : int(11)</code>	<code>id : int(11)</code>
<code>image : varchar(250)</code>	<code>image : varchar(250)</code>	<code>genre : varchar(250)</code>	<code>image : varchar(250)</code>
<code>name : varchar(250)</code>	<code>title : varchar(250)</code>		<code>quote : text</code>
<code>age : int(11)</code>	<code>artist : varchar(250)</code>		<code>position : varchar(250)</code>
<code>country : varchar(250)</code>	<code>tracks : text</code>		
<code>date : text</code>	<code>date : text</code>		

Activate Windows  
Go to Settings to activate Windows.

## PROJECT CONCLUSION

The Rhythm Rang project successfully achieved its goal of creating a comprehensive audio and video music platform. Through careful design and development, the application provides a user-friendly interface and seamless functionality. The integration of chatbot intents enhances user engagement by offering personalized music recommendations. Backend development ensured efficient data management, while front-end design delivered a visually appealing and intuitive experience. Overall, Rhythm Rang meets its objectives of delivering a personalized and enjoyable music experience, laying a strong foundation for future improvements and features.

## FUTURE EXPANSION OF THE PROJECT

- **Enhanced Chatbot Functionality:** Improve chatbot capabilities to include advanced natural language processing for more accurate and context-aware music recommendations.
- **Social Features:** Introduce social interaction features like user profiles, friend lists, and the ability to share playlists and favorite songs.
- **Offline Mode:** Add an offline music download option, allowing users to access their favorite content without an internet connection.
- **Multi-Language Support:** Expand the platform to support multiple languages, catering to a global audience.
- **Integration with Smart Devices:** Enable compatibility with smart devices like Alexa, Google Home, and wearable technology for a seamless music experience.
- **Subscription Plans:** Offer premium plans with ad-free streaming, exclusive content, and advanced customization options.
- **AI-Powered Insights:** Provide users with insights into their listening habits and preferences, enhancing personalization further.