

MUSIC PLAYER: YOUR MELODIC COMPANION

Introduction

- Project Title : MUSIC PLAYER
- Team ID : NM2025TMID38524
- Team Leader : S. Srinidhi & srinithi22nd@gmail.com

(CODER and VIDEO RECORDER)

- Team Members :

1. R. Supriya & supriyajagathi2006@gmail.com

(VIDEO RECORDER)

2. R. Vasuki & vasukiii1128@gmail.com

(DOCUMENTOR)

3. D. Yogeshwari & priyadevaraj1307@gmail.com

(DOCUMENTOR)

Project Overview

- **Purpose:** The primary goal of Music Streaming is to provide a seamless platform for music enthusiasts, enjoying, and sharing diverse musical experiences. Our objectives include.
- **Features :**
 - ✚ **Create playlist-** compile and organize a list of songs, videos, or other media into a custom collection for easy playback and access.
 - ✚ **Add favourite songs-** saving specific songs to a personalized list or collection, allowing easy access and quick playback of preferred tracks.
 - ✚ **Download songs-** to save music files from the internet or an app onto a device for offline listening.
 - ✚ **Playback speed-** allowing users to listen or watch faster or slower than the original speed.
 - ✚ **Add songs-** include or insert music tracks into a playlist, library, or collection for easier access and organization.

Architecture

Frontend: The **frontend** is the part of a website or application that users interact with directly. It includes everything visible in the browser—like layout, design, and user interface—typically built with HTML, CSS, and JavaScript, React.js, Node.js and Bootstrap.

Backend: The **backend** is the server-side part of a website or application that handles business logic, database interactions, and user authentication. It processes requests from the frontend and sends back the appropriate data, React.js, Node.js.

Database: A **database** is an organized collection of data stored electronically for easy access, management, and updating. It enables applications to efficiently retrieve, insert, and manipulate information, MongoDB stores user data, project information, applications, and chat messages.

Setup Instructions

➤ Prerequisites :

- ✚ Html
- ✚ CSS
- ✚ JavaScript
- ✚ MongoDB
- ✚ Node.js
- ✚ Git
- ✚ React.js
- ✚ Vite
- ✚ Visual Studio Code

➤ Installation Steps :

Clone the repository `git clone`

Install client dependencies `cd client npm install`

Install server dependencies `cd/server npm install`

Folder Structure

```
| -assets/  
  |__components/  
    L__app.css/  
  |__app.jsx/          # React frontend  
    |__#index.css/  
    |__main.jsx/  
    |__ .eslintrc.cjs/  
    |__ .gitignore/  
|__index.html/  
  |__index1.html/  
    |__index2.html/    # Node.js backend  
      |__index3.html/  
        |__package-lock.json/  
  |__package.json/  
    |__readme.md/  
    |__vite.config.js/
```

Running the Application

To run the code on Terminal:

🔧 Step 1: npm install

🔧 Step 2: npm run dev

Access: <http://localhost:5173/>

API Documentation

Sign up page:

```
<body>
<html>
  <form action="index2.html" method="POST">
    <input type="text" placeholder="Full Name" required />
    <input type="email" placeholder="Email" required />
    <input type="password" placeholder="Password" required />
    <input type="password" placeholder="Confirm Password" required />
    <button type="submit">Sign Up</button>
  </form>
  <p>Already have an account? <a href="index2.html">Sign In</a></p>
</div>
</body>

</html>
```

Sign in page:

```
<body>
<html>
  <form action="index3.html" method="POST">
    <input type="email" placeholder="Email" required />
    <input type="password" placeholder="Password" required />
    <button type="submit">Sign In</button>
  </form>
  <p>Don't have an account? <a href="index3.html">Sign Up</a></p>
</div>
</body>

</html>
```

Home page:

home page <!doctype html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<link rel="icon" type="image/svg+xml" href="/vite.svg" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<link href="https://cdn.jsdelivr.net/npm/tailwindcss@2.2.16/dist/tailwind.min.css"
rel="stylesheet">

<title>Music-Player</title>

</head>

<body>

<div id="root"></div>

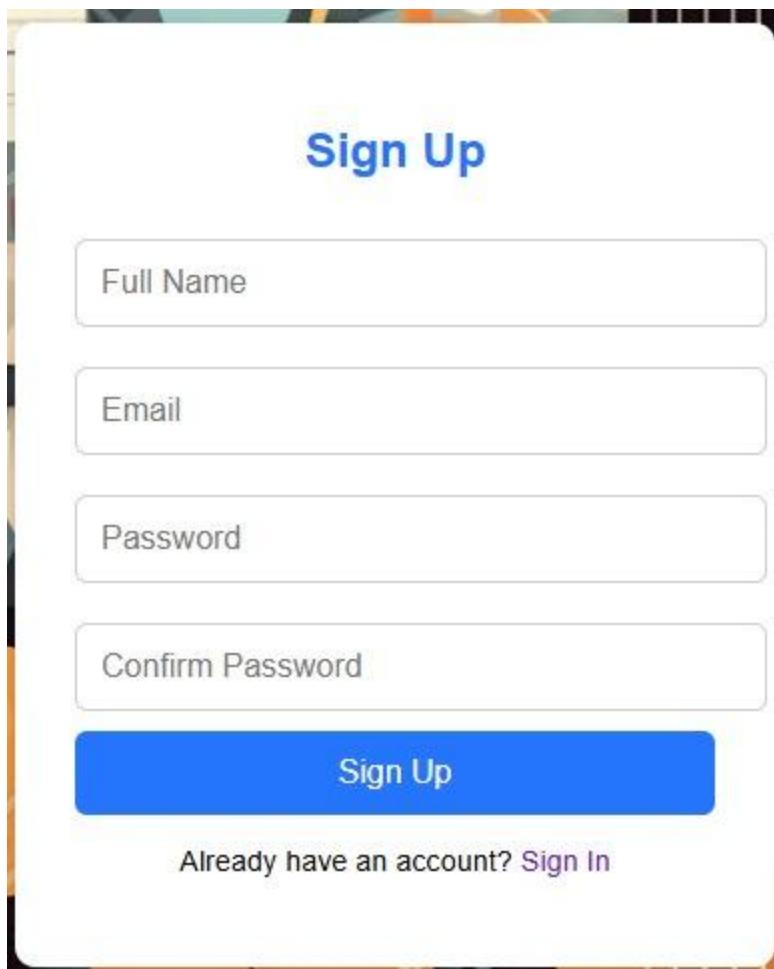
<script type="module" src="/src/main.jsx"></script>

</body>

</html>

User Interface

Sign up page:

A screenshot of a 'Sign Up' form. The form is white with rounded corners and is set against a background of a colorful abstract pattern. At the top, the text 'Sign Up' is displayed in a bold, blue font. Below this, there are four input fields, each with a light gray border and a light gray placeholder text: 'Full Name', 'Email', 'Password', and 'Confirm Password'. These fields are stacked vertically. Below the input fields is a solid blue button with the text 'Sign Up' in white. At the bottom of the form, there is a line of text: 'Already have an account? Sign In', where 'Sign In' is a purple link.

Sign Up

Full Name

Email

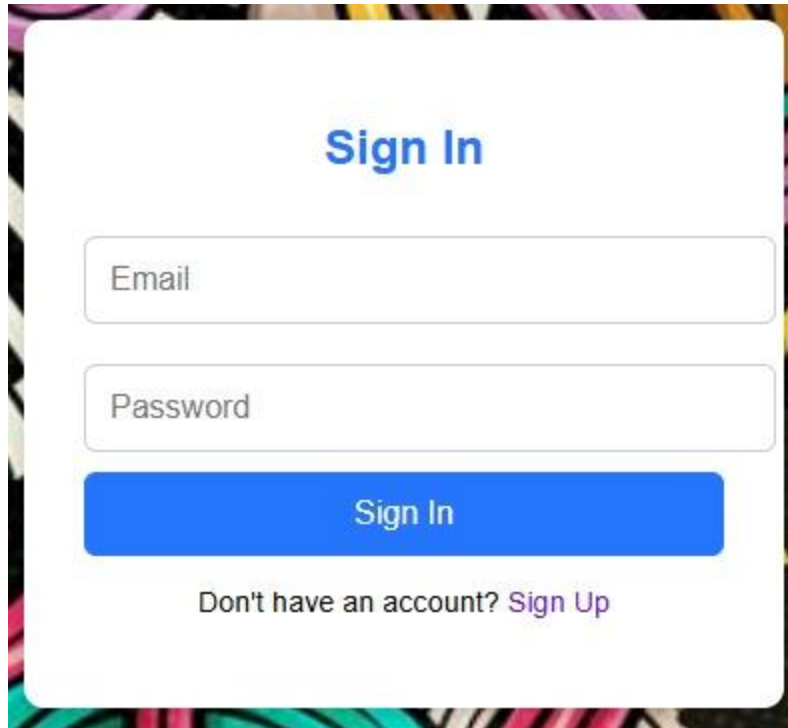
Password

Confirm Password

Sign Up

Already have an account? [Sign In](#)

Sign in page:



A sign-in page with a white background and a colorful, abstract pattern on the left. The page features a blue "Sign In" title, two input fields for "Email" and "Password", a blue "Sign In" button, and a link "Don't have an account? Sign Up" in purple.

Sign In

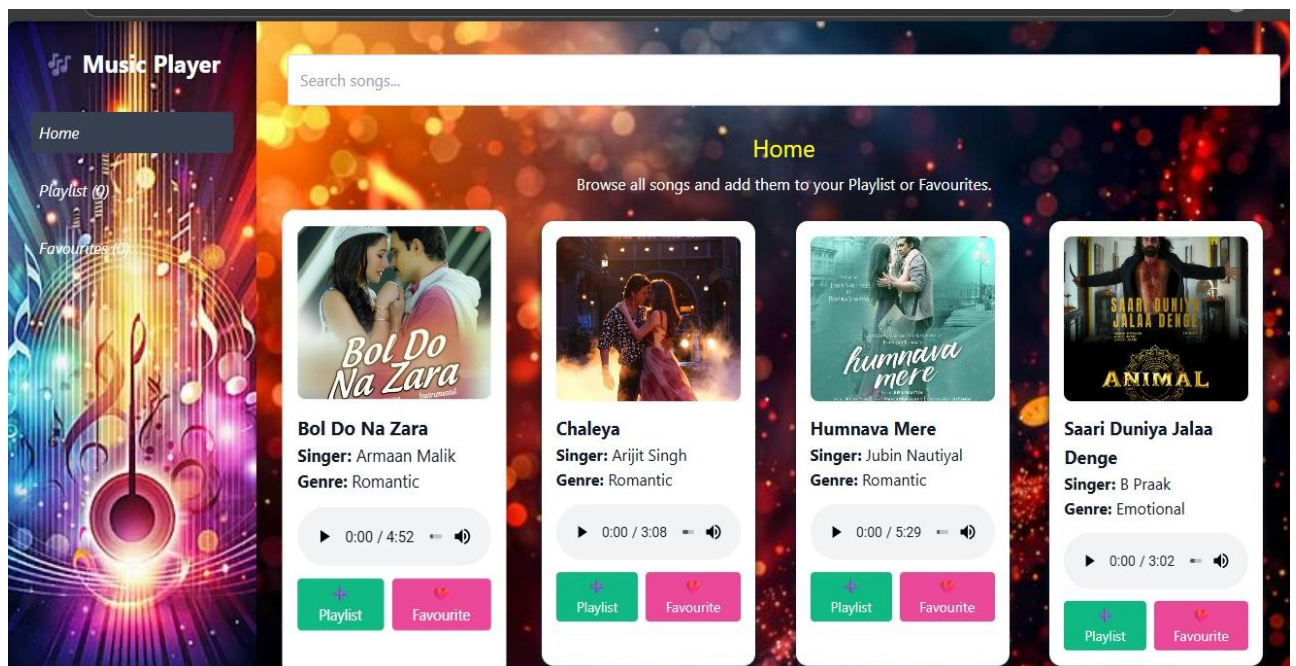
Email

Password

Sign In

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

Home page:



A home page for a music player. The left sidebar shows "Music Player" with "Home", "Playlist (0)", and "Favourites (0)" options. The main area has a "Search songs..." bar and a "Home" title. Below is a grid of four song cards, each with a cover image, title, singer, genre, and a play button with a progress bar. The songs are "Bol Do Na Zara", "Chaleya", "Humnaa Mere", and "Saari Duniya Jalaa Denge".

Music Player

Home

Playlist (0)

Favourites (0)

Search songs...

Home

Browse all songs and add them to your Playlist or Favourites.

Bol Do Na Zara
Singer: Armaan Malik
Genre: Romantic
0:00 / 4:52

Chaleya
Singer: Arijit Singh
Genre: Romantic
0:00 / 3:08

Humnaa Mere
Singer: Jubin Nautiyal
Genre: Romantic
0:00 / 5:29

Saari Duniya Jalaa Denge
Singer: B Praak
Genre: Emotional
0:00 / 3:02

Playlist Favourite

Demo link



Music Player Demo Video.mp4

Future enhancements

+ Mood-Based Music Playback

Automatically adjusts music based on mood, using AI and biometric data.

+ Brain-Controlled Music

Use brain-computer interfaces (BCIs) to play, pause, or change music with thoughts.

+ Health & Therapy Integration

Music for mental health, sleep aid, stress relief, or physical rehabilitation.

+ Location-Aware Music

Music changes based on GPS location or surroundings (e.g., parks, cities, stores).

+ Virtual Concert & Social Listening

Join virtual reality concerts or listen to music in sync with friends online.

