# PROJECT DOCUMENTATION RHYTHMIC TUNES YOUR MELODIC COMPANION

## 1. Introduction

- o project Title:Rhythmic tunes
- o Team ID:
- Team leader:

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#### Team members:

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## 2. Project Overview

## \* Purpose

## \* Personalized Musical Journey:

Tunes adapt to user moods, creating a unique and meaningful listening experience.

#### Stress Relief & Relaxation:

Provides calming melodies that reduce stress and promote peace of mind.

#### \* Boosts Focus & Creativity:

Rhythmic support that helps improve concentration and sparks creativity.

#### Melodic Companion Anytime:

Always available to uplift, relax, or motivate based on user needs.

#### Engaging & Lifestyle-Oriented:

Integrates music seamlessly into daily life, making it a constant companion.

#### **\*** Features:

## **Smart Music recommendation:**

Suggests songs automatically based on user preference and listening habits.

#### **\* Offline Listening support:**

 Allows users to enjoy music even without internet connectivity

#### **\* Customization Options:**

Users can create, edit, and personalize their own playlists with case.

### \* Easy-to-Use Interface:

Simple, attractive, and user-friendly design for smooth navigation.

#### Voice & Gesture control:

Hands-free access to play, pause, or switch tracks effortlessly.

## 3. Architecture:

#### **❖ Frontend:**

Developed Using React.js with Tailwind CSS/Material U for modern and responsive design.

#### \* Backend:

 Built with Node.js and Express.js to handle APIs, music streaming logic, and authentication

## 4. Setup Instructions:

#### **❖ Prerequisites:**

- ❖ Node.is
- ❖ MongoDB
- ❖ Gt
- ❖ React.js
- Expressijs
- ❖ Visual studio code

#### Installation steps:

➤ Clone the repository
Git clone repository-link>

#### > Install client dependencies

Cd client npminstall

#### Install server dependencies

cd../server

#### > Start the frontend

Cd client npm start

#### > Start the backend

Cd server npm start

#### Access the application

Open browser and go tα <a href="https://localhost:3000">https://localhost:3000</a>

## 5. Folder Structure

```
Rhythmic-Tunes/
-- client/
    | -- src/
    -- components/
    | -- pages/
    -- assets/
    └--App.js
    └-- public/
 -- server/
  -- routes/
  -- models/
   -- controllers/
    └--- server.js
-- config/
 -- docs/
 -- package.json
 -- READMEmd
```

## 6. Running the Application

#### **Frontend:**

Cd client

npm start

#### **Backend:**

Cd server

npm start

## 7. API Documentation

#### **User APIs**

Post /api/user/register-New User registration with profile creation

Post /api/users/login-login&get token

GET /api/users/{id}-get user profile

Put /api/users/{id}-update profile

DELETE /api/users/{id}-Delete account

### **Songs APIs**

GET /api/songs-Get all songs

GET/api/songs/search?rhythmic=lofi-search
by rhythmic

## **Playlist APIs**

POST/api/playlist-create new playlist
POST/api/playlist/{id}-Get playlist by ID

#### **Recommendation API**

GET/api/recommendation?user\_id=123-Get personalized songs

### **Project APIs**

POST/api/projects/create GET/api/projects/{id}

#### **Chat APIs**

POST/api/chat/send GET/api/chat/{userId}

## 8. Authentication:

- JWT-based authentication for secure login
- Middleware protects private routes

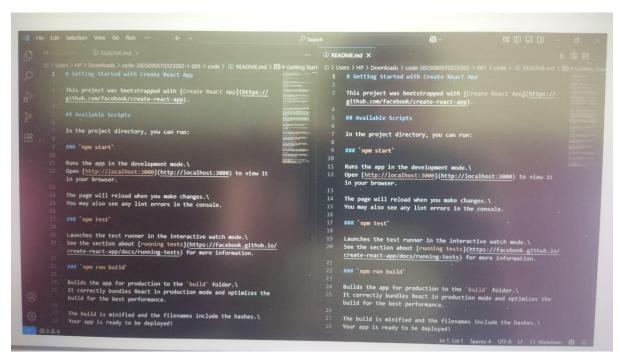
## 9. User Interface:

- Landing page
- Freelancer Dashboard
- Admin panel
- Project Details Pages

## 10. Testing

- Manual testing during milestones
- Tools:Postum,chrome DEV Tools

## 11. Screenshot



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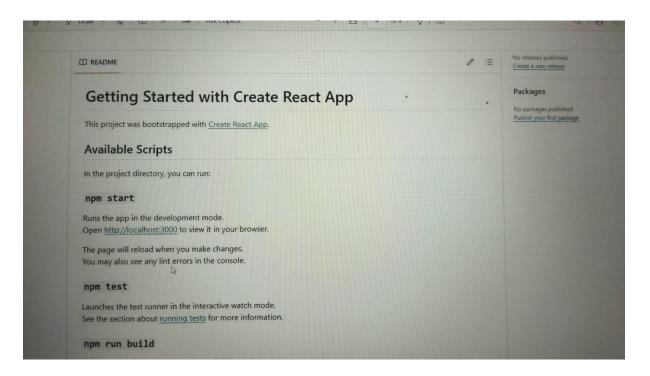
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## 12. Known Issues

- API Rate Limits
- Server Problem
- Navigation Glitches

## 13. Future Enhancements

- Analytics Dashboard
- Search Functionality
- User Authenticatiion