

Project Documentation

Rhythmic Tunes: Your melodic companion

1. Introduction

- **Project Title:** Rhythmic Tunes: Your melodic companion
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2. Project Overview

- **Purpose:** 'Rhythmic Tunes' is a music-based web application. The purpose is to provide users with an easy platform to listen ,learn ,and enjoy music. It helps to work together in real-world applications.
- **Features:**
 - ✓ Easy-to-use Interface
 - ✓ User-friendly Interface
 - ✓ Responsive Design
 - ✓ Database Support

3. Architecture

- **Frontend:** React.js with Bootstrap and Material UI

4. Setup Instructions

Prerequisites:

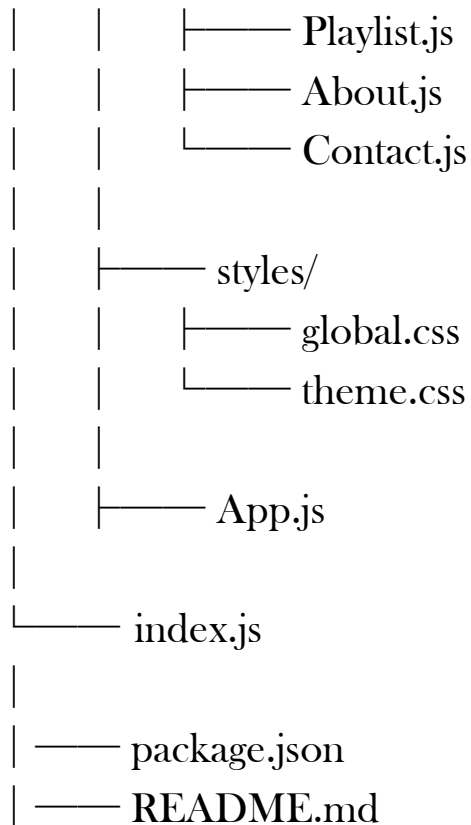
- ✓ Node.js
- ✓ MongoDB
- ✓ Git
- ✓ React.js
- ✓ Express.js-Mongoose-Visual Studio Code

- **Installation Steps:**

- ✓ **Install software:** Node.js ,Python/java
 ,MySQL/MongoDb.
- ✓ **Download project:** Clone from GitHub or extract ZIP.
- ✓ **Frontend setup:** Open folder → run npm install → npm start.
- ✓ **Backend setup:** Open backend folder → install requirements → run server
- ✓ **Database setup:** Create database → import file → update config.
- ✓ **Run project:** Start backend ,then frontend → open in browser
<http://localhost:3000>.

5. Folder Structure:

```
rhythmic-tunes/
| ——— public/
|   |——— index.html
|   |——— favicon.ico
|   |——— assets/
|       |——— images/
|       |——— music/
|
| ——— src/
|   |——— components/
|       |——— Navbar.js
|       |——— Footer.js
|       |——— SongCard.js
|       |——— MediaPlayer.js
|
|   |——— pages/
|       |——— Home.js
```



6. Running the Application

➤ Start the Database

- Open MYSQL/MongoDB and make sure the database is running.

➤ Run the Backend

- Go to the backend folder.
- Run the server (example: `python manage.py runserver` or `npm start`.)

➤ Run the frontend

- Go to the frontend folder.
- Run:
`npm start`

➤ Open the Application

- Open your browser and go to:
<http://localhost:3000>

7. API Documentation

User

- ✓ `/api/user/register`

✓ /api/user/login

Projects

✓ /api/projects/create

✓ /api/projects/:id

✓ Applications: /api/apply

Chats

✓ /api/chat/send

✓ /api/chat/:userId

8. Authentication

✓ JWT-based authentication for secure login

✓ Middleware protects private routes

9. User Interface

✓ Landing Page

✓ Freelancer Dashboard

✓ Admin Panel

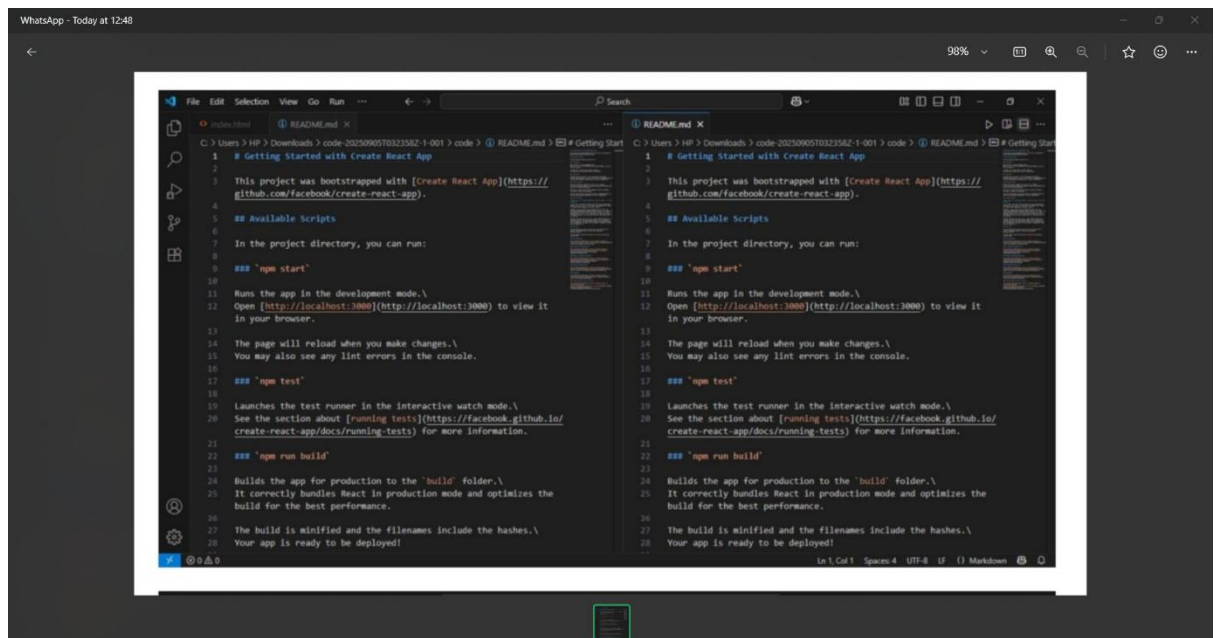
✓ Project Details Page

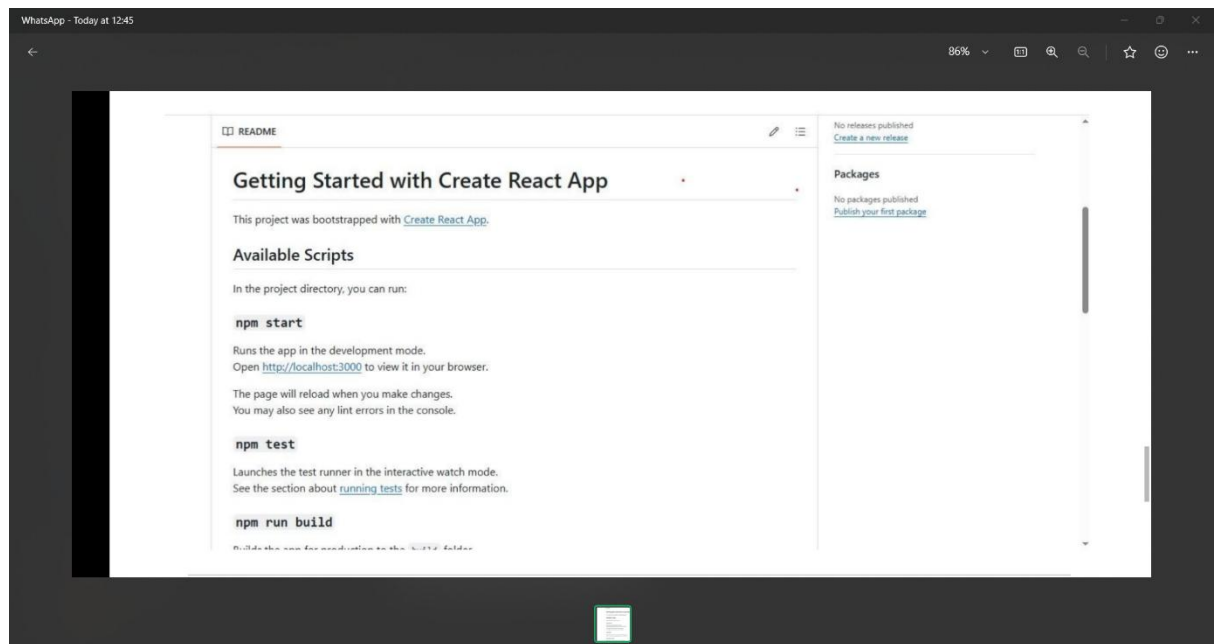
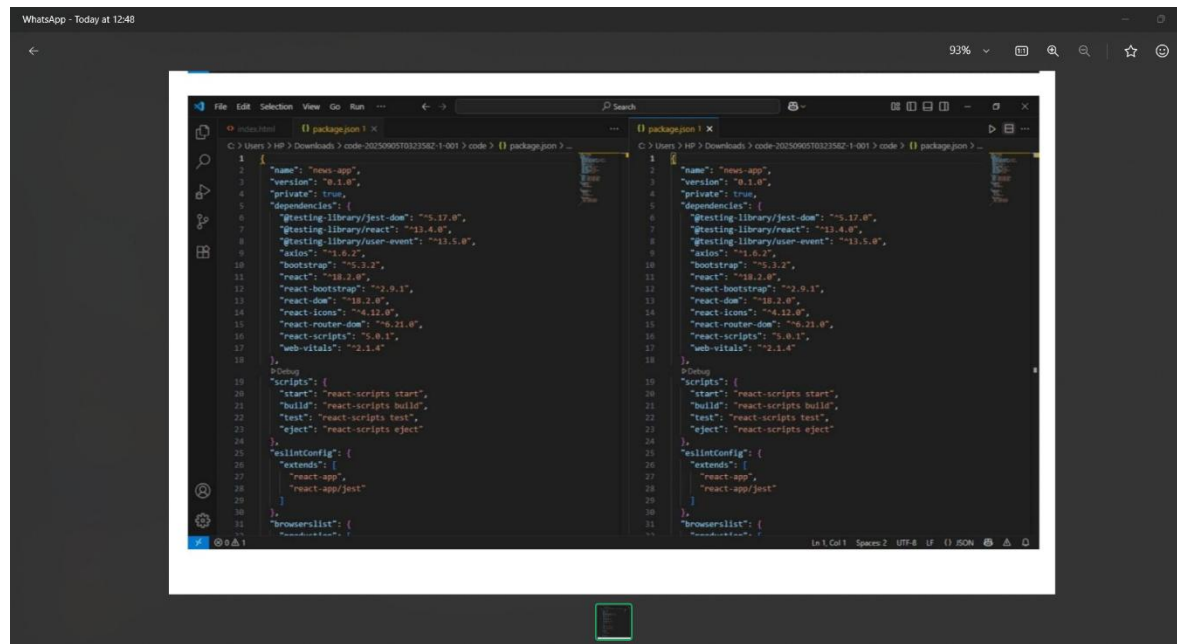
10. Testing

✓ Manual testing during milestones

✓ Tools: Postman ,Chrome Dev Tools

11. Screenshots





12. Known issues

- ✓ API Rate Limit
- ✓ Server Problem
- ✓ Navigation Glitches

13. Future Enhancements

- ✓ Analytics Dashboard
- ✓ Search functionality
- ✓ User Authentication