Project Documentation

RYTHAMIC TUNE

Introduction

Project Title: RYTHAMIC TUNE

Team ID:NM2025TMID41036

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Project Overview

Purpose: SB Works connects clients and freelancers through project postings, bidding, and real-time communication.

Features:

- Project posting and bidding
- Secure chat system
- Feedback and review system
- Admin control panel

Architecture

Frontend: React.js with Bootstrap and Material UI

Backend: Node.js and Express.js managing server logic and API endpoints

Database: MongoDB stores user data, project information, applications, and chat messages

Setup Instructions

Prerequisites:

- 2 Node.js
- 2 MongoDB
- 2 Git
- ? React.js
- Express.js Mongoose 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

Running the Application

Frontend:

cd client

npm start •

Backend:

cd server npm start

Access: Visit http://localhost:3000

2 API Documentation

User:

- 2 /api/user/register
- 2 /api/user/login

Projects:

? Chats:

- /api/projects/create
- /api/projects/:id

• Applications:

- /api/apply
- /api/chat/send
- /api/chat/:userId

Authentication

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

User Interface

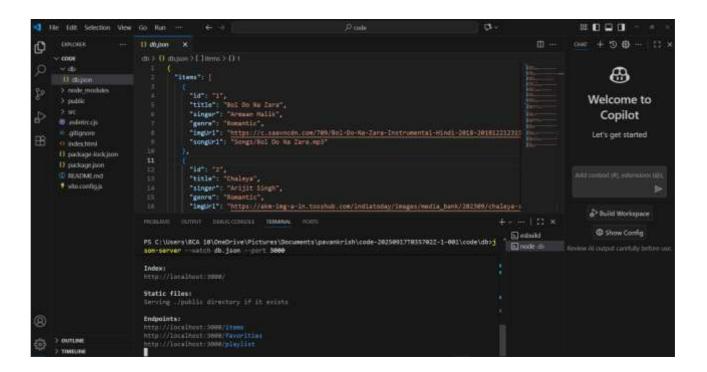
- Landing Page
- Freelancer Dashboard
- 2 Admin Panel
- Project Details Page

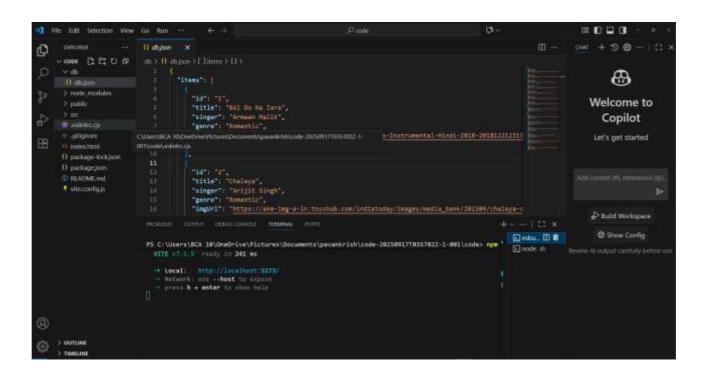
Testing

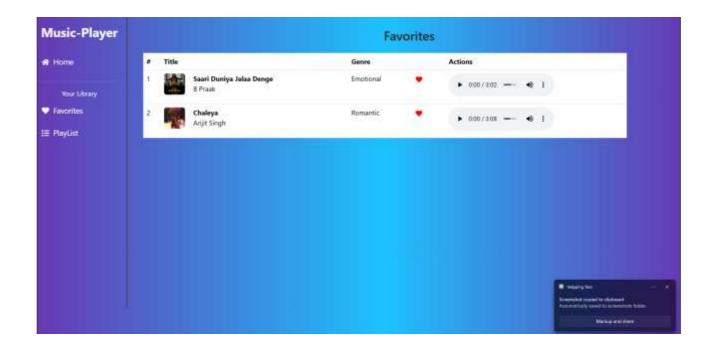
- Manual testing during milestones
- Tools: Postman, Chrome Dev Tools

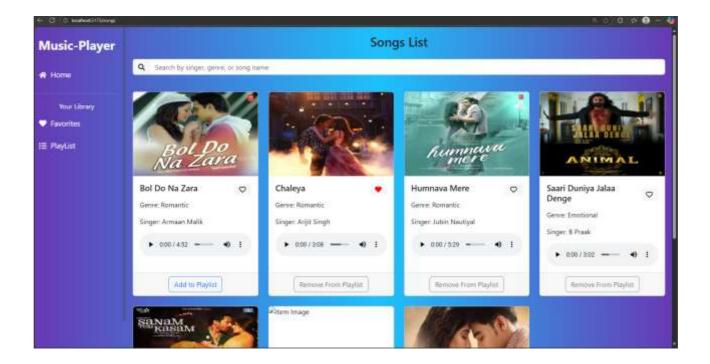
Screenshots or Demo

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Known Issues

- Implementing and installing in node js comment on npm audit for challenge
- Downloading packages and set in correct directory

Future Enhancements

■ The system can be enhanced by implementing Artificial Intelligence (AI) and Machine Learning (ML) techniques to analyze user preferences, listening patterns, and mood. This would allow the application to automatically adapt to the user's taste in music and provide personalized song recommendations. By learning from user interactions, the system can push songs that match or expand their liking, thereby improving user engagement and satisfaction.