

# Project Documentation

## 1. Project Title

- Project Title: Rhythmic Tunes – Music Player
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## 2. Project Overview

- Purpose:

Rhythmic Tunes is a React + Vite based Music Player application designed to provide an interactive and modern music experience. It demonstrates integration of a frontend built with React and Tailwind CSS with a JSON server backend for managing song data.

- Features:

- Play, pause and manage songs
- Playlist management with JSON Server backend
- Responsive and interactive user interface built with Tailwind CSS
- Local setup for learning and demonstration purposes

### 3. Architecture

- Frontend: React.js with Vite and Tailwind CSS
- Backend: JSON Server handling db.json as mock API
- Database: JSON file (db.json) for storing music metadata

### 4. Setup Instructions

- Prerequisites:

- Node.js LTS
- Visual Studio Code
- npm (comes with Node.js)

- Installation Steps:

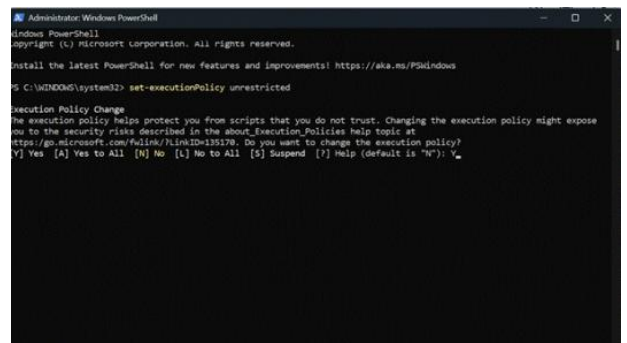
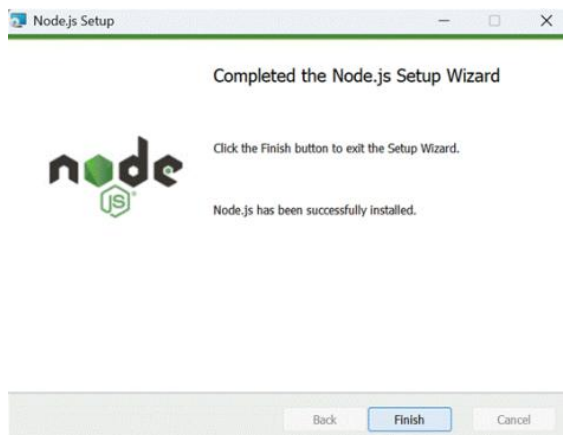
# Download the project code from SmartInternz portal

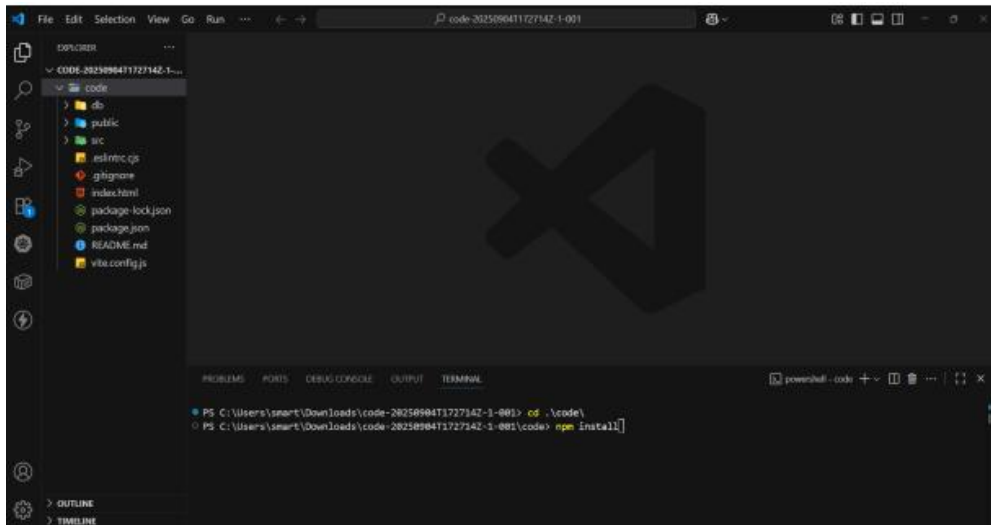
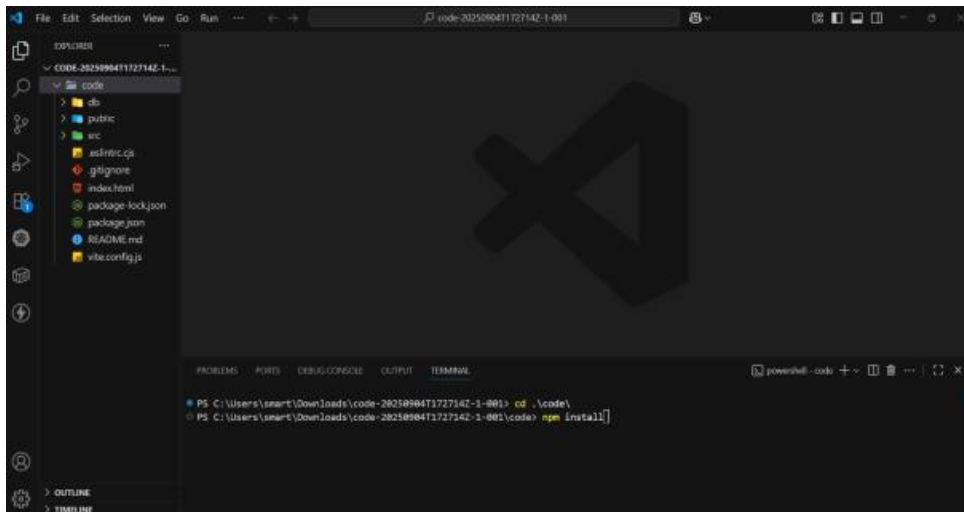
# Extract the code folder

# Open in VS Code and run: npm install

# Start the frontend: npm run dev → <http://localhost:5173>

# Start JSON server: cd db → json-server --watch db.json --port 3000





## 5. Folder Structure

Rhythmic-Tunes/

|-- src/ # React frontend components

|-- db/ # JSON Server data folder

| |-- db.json

|-- public/

|-- package.json

## 6. Running the Application

- Frontend:

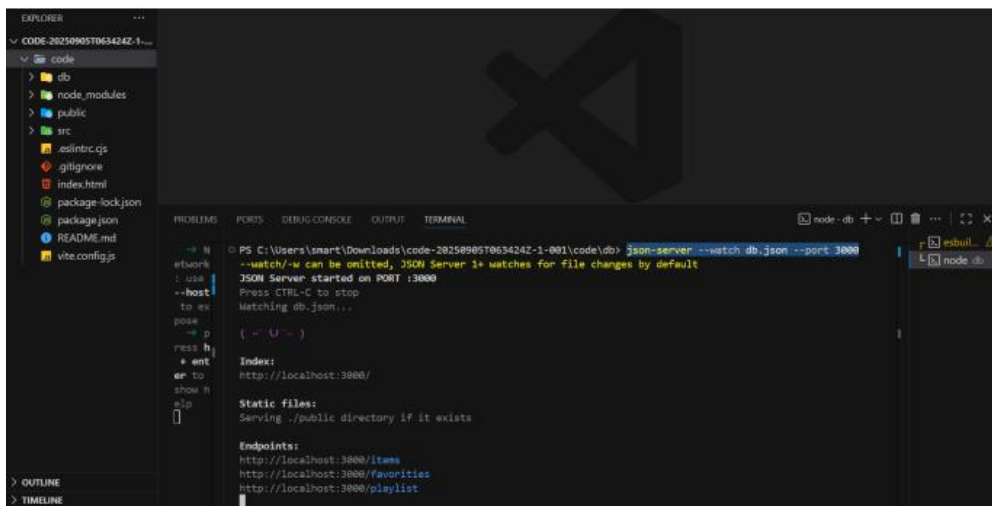
cd Rhythmic-Tunes

npm run dev → http://localhost:5173

- Backend (JSON Server):

cd db

json-server --watch db.json --port 3000



## 7. Future Enhancements

- Add user authentication system
- Create personalized playlists
- Integrate with real music streaming APIs
- Improve UI with advanced player controls
- Add offline support for playing songs