**Project Documentation**

Project Title: Rhythmic Tunes Melodic Companion

***1. Introduction***

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***2. Project Overview***

Purpose:

This project 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

***3. Architecture***

Frontend: ReactJS with Bootstrap and Material UI

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

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

***4. Setup Instructions***

Prerequisites:

Node.js

MongoDB

Git

React.js

Express.js

Mongoos

Visual Studio Code

Installation Steps:

# Clone the repository

git clone <repository-url>

# Install client dependencies

cd client

npm install

# Install server dependencies

cd server

npm install

***5. Folder Structure***

SB-Works/

│

├── client/ # React frontend

│ ├── components/

│ ├── pages/

│

├── server/ # Node.js backend

│ ├── routes/

│ ├── models/

│ └── controllers/

***6. Running the Application***

Frontend:

cd client

npm start

Backend:

cd server

npm start

Access: Visit http://localhost:3000

***7. API Documentation***

User:

/api/user/register

/api/user/login

Projects:

/api/projects/create

/api/projects/:id

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 or Demo***

***12. Known Issues***

***13. Future Enhancements***