

Project Design Phase

Proposed Solution Template

Date	17/04/2025
Team ID	SWTID1744376795
Project Name	Tune Trails
Maximum Marks	2 Marks

Proposed Solution Template for Music Streaming App

<u>S.No.</u>	Parameter	Description
1.	Problem Statement	Lack of a unified, user-friendly platform for streaming, discovering, and managing music online with features like favorites, personalized playlists, recommendations, offline access, and admin management.
2.	Idea / Solution	A MERN stack-based music streaming web application that allows users to explore songs, create and manage playlists, save favorites, and view personalized recommendations. Includes user and admin panels, JWT-based secure authentication, and MongoDB for storing users, songs, playlists, and recommendations.
3.	Novelty / Uniqueness	The platform offers a modern, intuitive UI, personalized playlists and song recommendations based on listening habits, and an ad-based revenue model—no subscription or hidden fees for users.
4.	Social Impact / Customer Satisfaction	Promotes digital access to music, especially in underserved areas; enhances customer satisfaction with a seamless, visually appealing, and accessible interface for all music lovers.

5.	Business Model (Revenue Model)	Revenue is generated through targeted advertisements within the app and optional audio ads. No subscription fees or platform charges for users.
6.	Scalability of the Solution	The solution can be scaled horizontally via containerization and cloud deployment (e.g., Vercel, Render, MongoDB Atlas). Future enhancements can include payment integration, mobile app support, and partnerships with artists/labels.