**Project Design Phase**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 15 February 2025 |
| Team ID | SWTID1741156330 |
| Project Name | Rhythmic Tunes |
| Maximum Marks | 2 Marks |
| Team Leader | Sibiraj S |
| Team member 1 | Santhosh Kumar S |
| Team member 2 | Harikrishnan G |
| Team member 3 | Shanmuga Prakash |
| Team member 4 | Madan V |

**Proposed Solution for Music Streaming App**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Parameter** | **Description** |
| **1** | **Problem Statement** (Problem to be solved) | Users often struggle to find a seamless, personalized music streaming experience that offers high-quality playback, real-time recommendations, and an intuitive user interface. This project aims to provide a responsive and engaging music streaming platform that integrates with a third-party API. |
| **2** | **Idea / Solution Description** | The Music Streaming App is a React-based frontend solution that allows users to search, stream, and manage their favourite music. It leverages a third-party API to fetch music data and ensures an intuitive and interactive UI/UX for a seamless experience. Users can create and manage playlists, search for songs/artists, and enjoy personalized recommendations. |
| **3** | **Novelty / Uniqueness** | - **Personalized Playlists & Recommendations** using AI-powered API suggestions - **Intuitive UI/UX** with responsive design across devices - **Cross-Platform Support** for both mobile and web users - **Seamless Integration** with third-party music APIs for vast content availability |
| **4** | **Social Impact / Customer Satisfaction** | - Provides an **ad-free music streaming experience** with customizable playlists - **Brings emerging artists** to a wider audience through recommendations - **Increases user engagement** through interactive features like favourite tracks, genre-based suggestions, and social sharing |
| **5** | **Business Model (Revenue Model)** | - **Freemium Model**: Free tier with ads, premium subscription for an ad-free experience - **In-App Purchases**: Exclusive access to curated playlists, offline downloads - **Affiliate Partnerships**: Integration with brands and music merchandise stores |
| **6** | **Scalability of the Solution** | - Can be **expanded globally** by integrating multiple third-party music APIs - Supports **multi-user profiles** for enhanced personalization - Can be extended to **mobile applications** for iOS & Android using React Native - Potential integration with **AI-driven recommendation engines** for improved user experience |