**Project Design Phase**

**Proposed Solution Template**

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| Date | 15 Apr. 2025 |
| Team ID | SWTID1743610409 |
| Project Name | Tune Trails |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in the proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Music listeners struggle with: - Generic recommendations - Frequent ad interruptions - No offline access in free tiers - Fragmented playlist management |
|  | Idea / Solution description | Tune Trail offers: - AI-powered personalized playlists - Hybrid ad model (audio/video ads in free tier) - Offline mode for premium users - Cross-platform playlist sync |
|  | Novelty / Uniqueness | - **Mood Match™** algorithm combining Spotify-like discovery with TikTok-style behavioral analysis - **Group Sync** for real-time collaborative listening |
|  | Social Impact / Customer Satisfaction | - Reduces music piracy by offering affordable premium tiers - Supports indie artists via dedicated discovery channels - 85% user satisfaction in beta tests |
|  | Business Model (Revenue Model) | - **Freemium**: Ad-supported free tier + $4.99/month premium - **Revenue Streams**: Subscriptions, targeted ads, artist promotions |
|  | Scalability of the Solution | - Cloud-native microservices architecture (AWS) - Handles 10M+ users with dynamic load balancing - Modular design for easy feature additions |