**Project Design Phase**

**Proposed Solution Template**

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| Date | 15 February 2025 |
| Team ID | SWTID1743254297 |
| Project Name | **TUNETRAIL- YOUR PATHWAY TO PERFECT PLAYLIST** |
| Maximum Marks | 2 Marks |

**Proposed Solution**

Our proposed solution is a full-stack web-based music streaming platform that serves both listeners and artists, focusing on personalization, simplicity, and inclusivity.

**Key Features**

* User Panel:
  + Browse and stream music by genre, mood, or artist.
  + Create and manage playlists.
  + Like, comment on, and share songs.
  + Personalized homepage and recommendation engine.
* Artist Panel:
  + Upload music tracks, set genre/tags, manage albums.
  + Track performance (views, likes, followers).
  + Monetization through subscription engagement or donations.
* Admin Panel:
  + Approve artist accounts and manage flagged content.
  + Oversee analytics of user activity and content trends.
* Tech Features:
  + Smooth streaming with buffered preloading
  + Scalable backend with RESTful APIs
  + JWT-based secure authentication
  + Responsive UI across desktop and mobile