

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	31 January 2025
Team ID	SWTID1741150449
Project Name	Rhythmic Tunes
Maximum Marks	4 Marks
Team leader	Yogitha JD
Team member	Z Afrose Banu
Team member	M JEEVITHA
Team member	V Kalai Vani
Team member	Gayathri B S

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

**Functional Requirements – Music Streaming App**

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Music Search & Discovery	Search for Songs, Albums, and Artists
		View Trending and Recommended Music
FR-2	Playback & Streaming	Play, Pause, and Skip Songs
		Display Album Art and Song Details
FR-3	Playlist & Favorites	Create and Manage Playlists
		Add or Remove Songs from Playlists
		Like / Favorite Songs
FR-4	Audio Streaming	Stream High-Quality Audio

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The app should have an intuitive and user-friendly interface, ensuring smooth navigation and accessibility for users of all demographics.
NFR-2	Security	User authentication and data must be secured using encryption (e.g., HTTPS, OAuth for third-party logins). The app should prevent unauthorized access and follow best security practices.

<b>NFR-3</b>	<b>Reliability</b>	The app should ensure a consistent and uninterrupted music streaming experience, minimizing crashes and downtime.
<b>NFR-4</b>	<b>Performance</b>	Songs should load and stream with minimal buffering. The app should respond to user interactions (search, playback, playlist management) within 2 seconds.
<b>NFR-5</b>	<b>Availability</b>	The system should maintain an uptime of at least 99.9%, ensuring accessibility across different time zones.
<b>NFR-6</b>	<b>Scalability</b>	The app should handle increasing numbers of users and concurrent streams efficiently without performance degradation. The architecture should support future feature expansion.