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

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Team ID	SWTID1741150587
Project Name	Rhythmic Tunes
Maximum Marks	4 Marks

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