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

Date	22 June 2025
Team ID	LTVIP2025TMID57410
Project Name	ShopsMart
Maximum Marks	4 Marks

Functional Requirements:

The following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration & Authentication	Users can create accounts, log in securely, and manage profiles
FR-2	Product Browsing	Users can browse items by category, apply filters, and search products
FR-3	Shopping Cart Management	Users can add/remove items, update quantity, and view cart summary
FR-4	Checkout & Payment	Users can place orders using digital payments and receive confirmation
FR-5	Admin – Product Management	Admins can add, update, and delete products
FR-6	Admin – Sales Reporting	Admins can generate and download reports on sales and performance

Non-functional Requirements:

The 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 unauthorised access and follow best security practices.
NFR-3	Reliability	The app should ensure a consistent and uninterrupted music streaming experience, minimising crashes and downtime.

NFR-4	Performance	App should respond within 1–2 seconds for all user interactions.
NFR-5	Availability	The system should maintain an uptime of at least 99.9%, ensuring accessibility across different time zones.
NFR-6	Scalability	The application should handle increasing numbers of users and concurrent streams efficiently without performance degradation. The architecture should support future feature expansion.