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

Date	31 January 2025
Team ID	PNT2025TMID04160
Project Name	Vehicle Management System
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Vehicle Management	Add New Vehicle Edit Vehicle Details Remove Vehicle
FR-4	Sales & Transactions	Generate Invoice for Vehicle Purchase Assign Sales Representative Track Vehicle Sales Performance Manage Customer Payments
FR-5	Service & Maintenance	Schedule Vehicle Servicing Track Service History
FR-6	Reports & Analytics	Generate Sales Reports Analyse Customer Purchase Trends

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description

NFR-1	**Usability**	The system should have an intuitive and user-friendly interface for easy navigation and interaction.
NFR-2	**Security**	The system must implement role-based access control (RBAC), data encryption, and secure authentication (OAuth, MFA).
NFR-3	**Reliability**	The system should ensure data consistency and should be able to recover from failures with minimal downtime.
NFR-4	**Performance**	The system should handle multiple transactions simultaneously with minimal latency. Response time should be under 2 seconds.
NFR-5	**Availability**	The system should have 99.9% uptime, ensuring that users can access it anytime without disruptions.
NFR-6	**Scalability**	The system should be able to accommodate increasing numbers of users, vehicles, and transactions without performance degradation.