Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	29 October 2025
Team ID	NM2025TMID03988
Project Name	Garage Management System
Maximum Marks	4 Marks

Functional Requirements

Following are the **functional requirements** of the proposed **Garage Management System**.

FR NO.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Service Booking	Customers can book a service appointment through an online form. System sends confirmation of booking to the customer.
FR-2	Vehicle Check-In	Admin records vehicle details and assigns a mechanic for inspection.
FR-3	Service Execution	Mechanic updates the service status after completing maintenance or repair.
FR-4	Inventory Update	System automatically deducts used parts from the inventory after service completion.
FR-5	Billing & Payment	System generates a digital invoice and allows secure online/offline payment.
FR-6	Notifications	Customer receives service completion and payment confirmation notifications.
FR-5	Reporting	

		Admin can generate daily, weekly, and monthl reports.

Non-Functional Requirements

Following are the **non-functional requirements** of the proposed **Garage Management System**.

FN N0.	Non-Functional Requirement	Description
FN-1	Usability	The system interface should be simple, intuitive, and user-friendly for both admin and mechanics.
FN-2	Security	Customer and service data should be protected using secure authentication and data encryption.
FN-3	Reliability	The system should ensure that all bookings, service updates, and billing operations execute accurately.
FN-4	Performance	The system should process service bookings and invoices without noticeable delay.
FN-5	Availability	The system must be available at all times for booking and service management operations.
FN-6	Scalability	The system should efficiently handle an increasing number of customers, vehicles, and transactions.
FN-6	Maintainability	The system should efficiently handle an increasing number of customers, vehicles, and transactions.