

GARAGE MANAGEMENT SYSTEM

Project Design Phase

Solution Requirements (Functional & Non-functional)

DATE	1.11.2025
TEAM ID	NM2025TMID04006
PROJECT NAME	GARGE MANAGEMENT SYSTEMS
MAXIMUM MARKS	4 MARKS

Introduction

The Garage Management System (GMS) is designed to help automotive repair facilities efficiently manage their operations. It provides a digital platform for handling customer details, vehicle information, job cards, service tracking, billing, and inventory management. The system enhances productivity, minimizes human error, and ensures timely service delivery.

Objectives

The main objectives of the Garage Management System are to:

- Streamline the workflow of vehicle repair and maintenance.
- Maintain detailed records of customers, vehicles, and services.
- Improve communication between garage staff and customers.
- Automate billing and inventory updates.
- Enhance customer satisfaction through transparency and service accuracy.

Functional Requirements

- Customer
Registration
- Job Card
Management
- Inventory Control

Non-Functional Requirements

- Usability
- Security
- Reliability
- Performance
- Service Tracking

System Design

The following flow diagram illustrates the workflow of the Garage Management System:

[Flow Diagram Placeholder – represents the process flow from Customer Registration → Job Card Creation → Service → Billing → Feedback]

Conclusion

The Garage Management System simplifies garage operations by integrating various functions such as customer management, service tracking, and billing. It ensures faster, accurate, and transparent service management, thereby enhancing customer satisfaction and operational efficiency.

Customer Registration

Job Card Management

Inventory Control