

Garage Management System - Solution Requirements

Introduction

This document outlines the solution requirements for the Garage Management System. It includes both functional and non-functional requirements which guide the development, implementation, and delivery of the system.

Functional Requirements

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: Service Booking

- Select service type (repair, maintenance, inspection)
- Choose preferred date/time and mechanic
- Receive booking confirmation

FR-4: Service Status Updates

- View real-time updates during vehicle servicing
- Receive notifications for stage completion

Non-functional Requirements

NFR-1: Usability

The system should have a clean UI and be easy to navigate for both mobile and web users.

NFR-2: Security

User data should be encrypted. Implement role-based access controls.

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NFR-3: Reliability

System must ensure 99.9% uptime with failover strategies.

NFR-4: Performance

All transactions and interactions should complete within 2 seconds.

NFR-5: Availability

The system should be accessible 24x7 with maintenance windows communicated.

NFR-6: Scalability

The architecture must support future expansions for users, services, and geographic locations.