Library Management

1. Introduction

1.1 purpose
This document outlines the requirements for a library mangement system, detailing its functionalitis performance metrics, and design constraints to ensure a clear understanding for stakeholders

1.2 Scope

The LMS aims to streamline manage -ment of library operations, including cataloging, tracking and borrowing books

1.3 Overview
The LMS will offer features for both library staff and patrons, allowing for easy management of books, members and transaction

2 General Description

The LMS is designed for librarians and library users. Key features include:
- user objectives
- user characteristics
- Benefits
- user community

4. Interface Requirements
- User interfaces: Web-based interface for easy access.
- Apis: Restful API's for integration with other systems.
- Data streams: Support for real-time data updates and notifications

5. Performance Requirements:-

- Response Time: System should respond within 2 seconds for user queries.
- Memory Usage: Efficient memory utilization, with a target of less 100 MB.
- Error Rate: Maximum error rate 7% in transaction processing.

6. Design Constraints:- Technology Stack: Must - use a specified database
- Use Access levels: Different access rights for staff and patrons

7. Non-functional Attributes

- security
- portability
- scalability

8. Preliminarly schedule and Budget
- Initial schedule: 6 moths for development and testing

- Budget: Estimated at $30,000 £ covering development, testing and deployment.

2) ## Stock Maintainance System

Introduction
1.1 Purpose of this Document
This document defines the require ments for the stock maintenance system, outlining its functionalities, performance criteria, and design limitations to guide development.

1.2 Scope: The SMS aims to automate and streamline inventory management processes, including stock tracking order management, and reporting.

1.3 overview:- The SMS will provide feautures for inventory managers and staff efficient management of stock levels, supplier ing and sales data.

2. ### General Description

The SMS is designed for inven -tory Managers and warehouse staff. Key feautures include.

- user-objectives:- efficient stock tracking
- user characteristics: users with basic computer skills and familiarity with inventary process.