▷ Library Management System.

A) Problem Statement.

Library Management System is designed to solve the problem of managing and maintaining the books and other resources of a library efficiently. The manual process of issuing and returning books, keeping track of overdue books and managing the inventory was time-consuming and error prone.

B) SRS.

1) Introduction:

Purpose: To provide a detailed description of library Management System.

Scope: The scope includes the functional and non functional requirements, as well as limitations and constraints that need to be considered during the development process.

Overview: Provides an overview about the features and benefits of library staff and patrons.

2) General description.

This is a software application that allows library staff to manage and maintain the library's collection of books and other resources.

3) Functional requirements.

- Allow library staff to perform tasks such as adding and updating book information.
- Issuing and returning of books
- Managing overdue books.

- Patron management, inventory management
- Book acquisition and catalogue services.

4) **Interface requirements.**
- user-friendly interface for library staff and patrons accessing its features.
- Provide interfaces for different types of users (administrators, librarians and patrons)

5) **Performance requirements.**
- must handle a large volume of data and transactions efficiently.
- Fast response times and minimal downtime
- Accomodate scalability for future growth.

6) **Design Constraints.**
- The system must work within the constraints of the library's existing hardware and software infrastructure.
- Comply with industry standards and best practices for software development.

7) **Non-functional attributes.**
- Must be portable, scalable and reliable.
- Available 24/7 and service support.
- Allow easy migration to different platforms or environments.
- compatible with other applications and systems used by the library.