**Lab Assignment-2**

**Title-Library Management System**

A Library Management System (LMS) is a comprehensive software solution designed to streamline and automate the management of library resources, services, and operations. Libraries, whether in educational institutions, public spaces, or corporate settings, play a critical role in organizing, preserving, and disseminating information.

**Non-Functional Requirements**

**Performance**- Optimizing the performance of a Library Management System (LMS) is essential to ensure that the system operates efficiently, providing a seamless experience for library staff and patrons.

**Security**- Ensuring the security of a Library Management System (LMS) is essential to protect the privacy and integrity of user data, maintain the library's collections, and safeguard the system from potential threats.

**Usability**- Usability is a crucial aspect of a Library Management System (LMS) that determines how user-friendly

and efficient the system is for both library staff and patrons. A user-friendly LMS enhances the overall library experience and encourages library usage.

**Scalability-** Scalability in a Library Management System (LMS) refers to the system's ability to grow and adapt to handle increasing workloads, data, and user demands without significant performance degradation. Ensuring that the LMS is scalable is essential to accommodate the needs of libraries that may experience changes in user numbers**,** collections, and digital services.

**Reliability**- Reliability in a Library Management System (LMS) is essential to ensure that the system operates consistently, without disruptions or failures, and that library staff and patrons can depend on its performance.

**Data Backup and Recovery-** Data backup and recovery are essential components of maintaining the integrity and continuity of aLibrary Management System (LMS). Proper backup and recovery procedures help protect the library's valuable data from loss or corruption and ensure that the system can quickly recover in case of unexpected events.