

1. Library Management System :

1.1 Purpose :

To outline the requirement for the Library Management system, enhancing library operations.

1.2 Scope :

The System will handle book cataloging, member management, and lending processes, ultimately improving efficiency and user experience. Estimated development cost is \$50,000, with a timeline of 6 months.

1.3 Overview :

The LMS will provide functionalities for searching, borrowing and returning books, aimed at both librarians and patrons.

2. General description :

Key users include librarians & library visitors. The system will simplify tasks such as searching for books, managing users accounts and tracking borrowed items.

3. Functional Requirements :

Cataloging : Add, update, and delete books

Member Management : Register & maintain user acc

Borrowing / Returning : Process book loan & returns

Notification : Alert users about overdue items

Search : Enable searches by titles, authors and genre.

4. Interface Requirements : web-based for librarians and patrons.

APIs : For integration with external services
(eg, payment gateways).

5. Performance Requirements :

Supports up to 500 concurrent users

Search response time under 2 seconds

6. Design constraints :

Must be developed with specific technologies
(eg. Java, MySQL).

Compliance with data protection regulation.

7. Non-functional Attributes :

Security : User Authentication and Data
Encryption.

Reliability : 99.9% uptime.

8. Schedule & Budget :

Development Timeline : 6 months.

Estimated cost : \$50,000.