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Library Management System

1) Introduction:

The document gives the requirements of Library Management System. Its purpose is to provide clear understanding about system requirements, functionalities, objectives and constraints. It aims to automate processes like book issue, calculating due amount and fine & maintaining data.

2) Description:

Objective - Users will be able to search books, authors, genre and know the date of return.

Features - It includes user profile management, librarian account, book search, addition, deletion, updation & tracking.

3) Func Requirements:

- ★ User authentication - User can login to use the features.
- ★ Book catalog - Librarian can add, delete & edit records.
- ★ Search - User can search books by name, author and Book ID.
- ★ Users can borrow & return books.
- ★ Generate reports on number of users borrowing a particular book.

4) Interface Requirements:

- ★ User interface - A web-based interface for users.
- ★ Admin interface - A separate dashboard for admins & librarians to manage library operations.
- ★ Database to contain details about books.

5) Performance Requirements:

- * Response time must be less, within a second.
- * It must support a large number of users accessing it at the same time.
- * It must be error-free or atleast have least error.

6) Design constraints:

- * Data must comply with data protection regulations.
- * Must use a relational database for data storage & management.

7) Non-functional Attributes:

- * Security - User data must be protected by proper encryption methods.
- * Portability - It should run on various operating system.
- * Reliability - The system must be reliable and have fast recovery from errors.
- * Scalability - It must allow multiple users to access at the same time.

8) Preliminary Schedule:

Requirement Specification - 3 weeks

Design & development - 5 weeks

Testing - 4 weeks