

Lab-2

SR5

Library Management System

1. Introduction:

1.1 Purpose: The purpose of library management system is to provide a more classified and availability of books (resources), to provide software requirement for library management system.

1.2 Scope: User can borrow books (resources) in a limited amount and in a limited time constraint. User can also explore different domains provided.

1.3 Overview: Borrowing of books & detailed into of requirements.

2. General description:

2.1 Assigning unique Book-ID

2.2 Proper organization by making categories.

2.3 Working hours, subscription.

~~2.4 Benefits for users with subscription.~~

2.5 2.5 Features

→ Form submission and document uploads.

→ Notification for book overdue.

→ Barcode scanning report support for quick check.

2.6 Benefits

→ ~~User get~~ Reduction of manual labours

→ Quicker searching and managing books

3. Functional Requirements:

3.1 User Management: System allow registration modification.

3.2 Book Management

3.3 Transaction Management: Borrow and return functionality for overdue book.

3.4 Penalty Calculation.

3.5 Search Functionality.

4. Interface Requirement:

User interface: Easy to use interface for user and librarians, include menu bar, search bar etc.

Database interface:

5. Performance Requirements:

5.1 Response Time: search results must be obtained in no time.

5.2 Error handling

5.3 Capacity: Capable of handling simultaneous 100 users.

6. Design Constraints:

6.1 Accessibility: should be accessible for users even for user with disabilities.

6.2 Technology: System should be a open source.

7. Non functional attributes:

7.1 Security

7.2 Scalability

7.3 Reliability

7.4 Library rules & regulation.

8. Preliminary Schedule and Budget:

8.1 Time

8.2 Budget

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