

### ③ Library Management

① Problem Statement: Conventional method of library management which require issuing of books using library cards and searching for books in the bookshelf manually have become tedious for managing large libraries. Availability of books has to be looked upon manually.

#### ② Scope:

Library Management Software system can solve. records the issue of books. It stores the issue details like issue name, issue id, issue contact, and date of issue and return. It also helps in keeping track of the number of copies of a particular book that are available. It & since it keeps a record of all the books in the library availability of a book can be easily checked upon using details like author, book title, book id, genre, category. Late charges and fines can be kept track of using the library management system.

#### Functional

#### ③ Requirements:

##### Librarian

- 3.1 Book Search - searching books in the database using author name, book name, book id, and category
- 3.2 Recording issue of books - recording the issue details like issue name, issue id, date of issue and return, also keeping track of the delay in returning of books
- 3.3 Records of users and library members :- recording the details of library members
- 3.4 Adding of new library members

##### Administrator

- 3.1 Managing library staff
- 3.2 Attendance of staff
- 3.3 Adding of new books



Non Functional Requirements:

Security: Role based access control for different user types

Scalable: The LBS should be able to manage large connections of books and users

Usable: The library management system should be convenient to use

Performance :

Performance Requirements:

The system should handle at least 500 simultaneous updates of books

Interface Requirements:

The interface should be user friendly and easy to use.

Design Constraints:

The system must be designed to allow web usability. That is the system must be designed in such a way that will be easy to use and visible on most of the browser.

Preliminary Schedule and Budget

The actual library management and app development cost will

range between \$25000 - \$35000

01/10/24