### EXP NO: 1B     FUNCTIONAL REQUIREMENTS FOR LIBRARY MANAGEMENT SYSTEM

**AIM:**

To perform analysis of the given problem statement for listing the functional requirements

**PROBLEM STATEMENT:** Several problems such as inadequacy of infrastructure and hardware, problems in the software, lack of trained and skilled staff and lack of funds.

**LIBRARY INFORMATION SYSTEM:**

The library management system software helps in reducing operational costs. Managing a library manually is labor intensive and an immense amount of paperwork is involved. An automated system reduces the need for manpower and stationary. This leads to lower operational costs.

The system saves time for both the user and the librarian. With just a click the user can search for the books available in the library. The librarian can answer queries with ease regarding the availability of books. Adding, removing or editing the database is a simple process. Adding new members or cancelling existing memberships can be done with ease.

**FUNCTIONAL REQUIREMENTS:**

**Administrator must be able to:**

- ➢ Provide the information regarding books.
- ➢ Search for the required books from database.
- ➢ Add new book to the database.
- ➢ Update the number of books in database.
- ➢ Enter date of issued book in Database.
- ➢ Information of returned books.

**Administrator Menu:**

- ➢ Admin should be able to insert, modify and delete books.
- ➢ Can accept or reject a new user according to the library policy.
- ➢ Can get the information of any member who has borrowed a book.
- ➢ Add and edit book categories and arrange books by categories.
- ➢ Can record books returned by users.

**List of books:**
- ➢ Includes the bunch of books accordingly with series of department

**User Requirements:**

- ➢ Allow user to view quick reports like book issues/ returned etc. in particular time.
- ➢ Stock verification in different criteria or according to different categories.

**New user Registration:**

Any member of the institute who wishes to avail the facilities of the library has to register himself with the library information system.

**Search book:**

The system must be able to search the database based on select search type, must be able to filter book based on keyword entered and must be able to show the filtered book in table view.

**Issue books and return books:**

The system must be able to enter issue information in database, must be able to update number of books, must be able to search if book is available or not before issuing books and should be able to enter issue and return date information

**Event addition:**

System should be able to add detailed information about events and display information on notice board available in the homepage of site.

**Renew the book:**

If the time exceeds beyond the time limit of the management then one can be able renew the book fornext few days so that it avoids paying of extra payment.

**RESULT:**

The given problem statement is analysed and various functional requirements are listed.