**CHAPTER 1**

**INTRODUCTION**

**Library Management System** (LMS) is library management software for the purpose of monitoring and controlling the transactions in a library. This case study on the library management system gives us the information about the library and the daily transactions done in a Library.

The basic user requirements of LMS identified are:

* Provide facility to issue and return the book.
* Librarian and member must be able to search the book.
* If a user wants a book which is not in the library, librarian must be able to order for the book.

**1.1 PROBLEM STATEMENT**

A member visits the library to return existing book and obtain another one. The member returns the book and asks for a particular book, based on the book title or author name, publisher name or year of publication. If the book was returned after the due date, he will be fined accordingly and the librarian must be able to collect and clear the dues of the member.

A member can search for the book in the library database. Alternatively, even the librarian may need to search the book in its library database. The book might be available in the library or it might be issued to another member or it may not be available at all. Accordingly the member is informed and if possible the book is issued by the librarian. If the book is not available, based on the demand for the book, librarian must be able to place the order for the book. The librarian must be able to add the details of the new book into the library database and he must also be able to remove the details of the book which do not exist in library anymore.

Library administrator must be able to create an account of a new member or delete the account of the existing member based on the request of the member. And he must be able to do all the activities done by the librarian.