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## Library Management System

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### ABSTRACT:

Online library management is a system for managing information about a library's available books, librarians, library members and staff in the library where the books are distributed. It is difficult to configure this manually. Processing all this information manually is a very difficult task. Due to the advancement of technology, the organization of online libraries has become easier. It aims to computerize and automate online library management, membership information, book printing and return, and all other functions. Computerization of these libraries helps in the maintenance of libraries many times. Administrative work is also reduced as most manual work is eliminated.

Keywords: library, books, online.

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### 1. Introduction

#### About the project:

Electronic Library Management System refers to the application program of small and medium sized libraries. It is used by librarians to manage the library using a computer where they can add new books, videos, and pages. The system also includes a book and student maintenance module that monitors the system usage of the student library and provides detailed description of the books held on the library paper. With this computer, there is no data loss or data possession that usually occurs when using non-computer systems.

All of these models can help librarians manage libraries more easily and efficiently compared to libraries without computers.

#### OBJECTIVE:

- Reading books online.
- Search bar to find available books
- Where to download the required documents.
- Give video lessons to students.
- Admin home page where the admin can add books, videos or site pages
- Open the link to the work site

#### SYSTEM ANALYSIS

##### Existing system:

The first libraries were self-managed. Writing or storing content takes a lot of time. Employees who need to write detailed information must do their jobs properly. Even a small mistake can cause many problems. Very little safety information. Reporting the generation of all data is a very difficult task. • Maintaining the library catalog and arranging the books in the catalog is a very difficult task. You can view the member's content, publication and return date, etc. Besides maintaining it, it is also a difficult task. All work must be carried out in the best possible way to guarantee that library maintenance will not cause damage in the event of system failures.

##### Proposed system:

Students will register online Each member has their own account where they can access the information they need. Author, total number of volumes held in the library, available books, used books, unused books, etc. book details such as. All this information is easily accessible. Books

regarding member selection are being published. Problem dates and returns of all members will be kept confidential, and penalties, if any, will be paid late. Administrators can add and edit books. Use less time, get accurate results and increase confidence with the help of security.

#### **MODULE DESCRIPTION**

- Admin
- User

##### **Admin:**

Create, update and delete user accounts and manage user roles and permissions in the system. Catalogue, organize and remove library materials including books, magazines, media products and more. Perform daily maintenance tasks such as software updates, data backups, and optimizations to ensure system reliability and performance. Administrators can also log in with username and password.

##### **User:**

Users can search and browse the library catalog to find information such as books, magazines, DVDs, and more. Users can view library materials by entering the catalog, selecting the items they wish to borrow, and completing the loan transaction in person at the check-in desk or with the assistance of library staff. Users can save or save items that have already been borrowed by other users. Users will receive a request notification when an item becomes available. Patrons can pay fines or fees for expired or lost/damaged publications online or in person through the library's payment system.

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## **II. CONCLUSION:**

This website provides information on library management to assist students and library staff. It puts the entire process online, students can search for books and staff can create reports and exchange books. There is also a student login where students can log in and check the status of publications and applications or make some suggestions. There is a teacher login where teachers can add lessons and provide useful information to the library and also add information to the online forum about session talks or events taking place at our college or nearby schools.

#### **Reference:**

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