

LITERATURE SURVEY

TEAM ID	NM2023TMID04391
PROJECT TITTLE	BLOCKCHAIN POWERED LIBRARY MANAGEMENT

ABSTRACT:

- To keep track of library records, a library management system is used.
- It keeps track of the quantity of books in the library, how many books are issued, how many books are returned or renewed, and how much late fine money is owed, among other things. With this system, you can rapidly identify books, swiftly issue/reissue books, and handle all of the data in an efficient and organized manner.
- A library management system's goal is to deliver immediate and accurate information about any type of book, saving time and effort.
- The library management system is software that manages a library's manual functions
- . From preserving book records to issuing a book, the program aids in the management of the complete library business.
- It also facilitates the maintenance of fine details about books, such as the author's name, edition, and a variety of other crucial details.
- As a result, students and librarians will have an easier time searching for books and locating the appropriate material

Electronic management using software is required to keep track of information such as issue date, due date, and who has borrowed any materials, among other things.

- The system was created and constructed with the goal of assisting schools and colleges in managing a modern library with correct data management.
- effective library management software is required to conduct smart school activities and keep correct library data.
- MyEdu provides a smart school application that allows schools, colleges, and coaching centers to manage library operations more efficiently.
- Get one for your school and keep up with the latest developments in education.
- Contact us to learn more about how the library management system might benefit your educational institution.

Introduction:

- A library management system's goal is to run a library more efficiently and at a lower cost.
- Because the system is completely automated, it simplifies all of the library's operations.
- The software performs the tasks of book purchase, cataloging, indexing, circulation recording, and stock checking.
- Such software eliminates the need for manual labor and reduces the likelihood of errors.
- The software for the library management system aids in the reduction of operational costs.
- Manually managing a library is time-consuming and involves a

significant quantity of paperwork.

Proposed System:

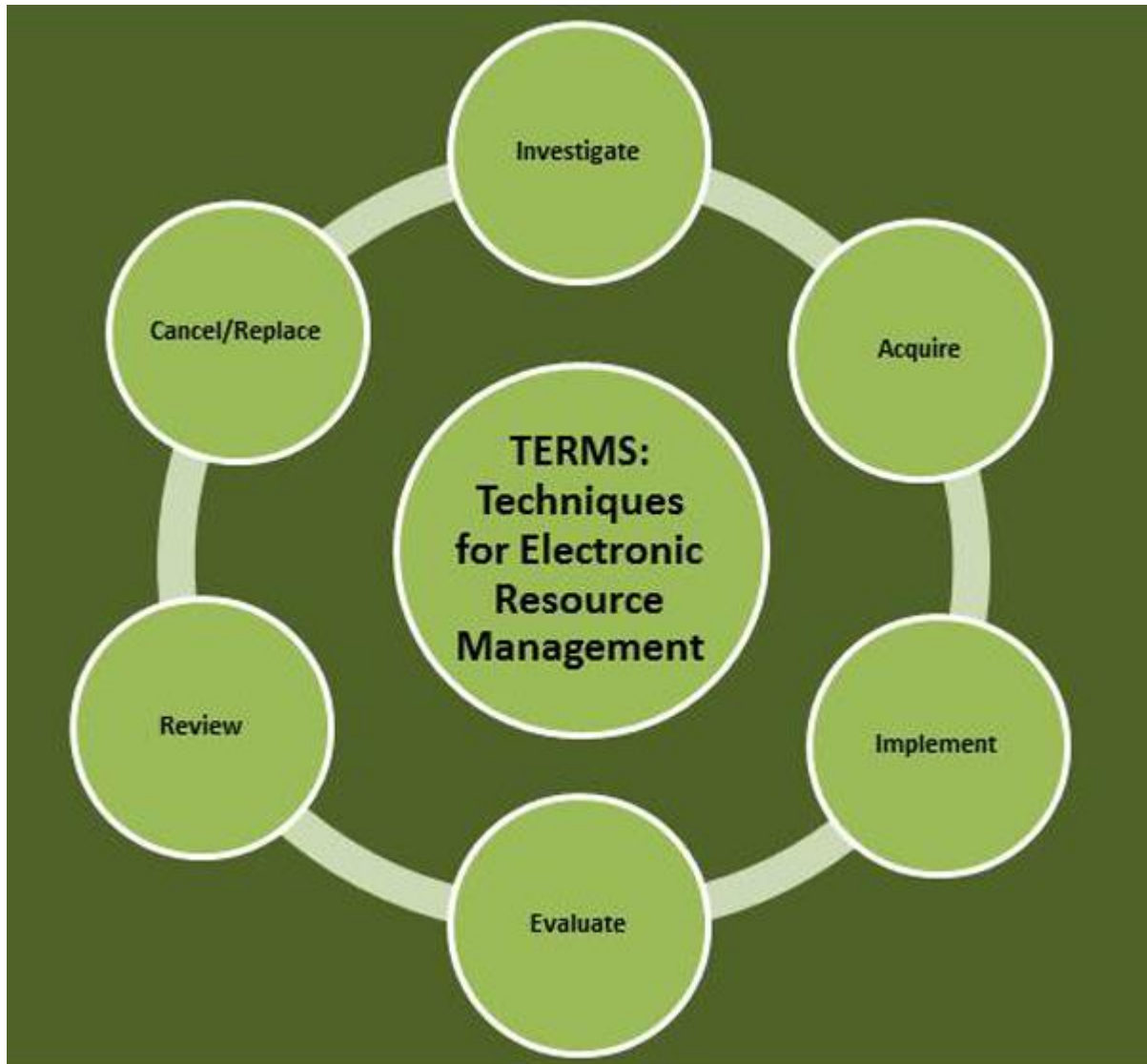
- The proposed system is an automated Library Management System.
 - Through our software user can add members, add books, search members.
- books, update information, edit information, borrow and return books in quick time. Our proposed system has the following advantages.
- User-friendly interface
 - Fast access to database
 - Less error
 - More Storage Capacity
 - Search facility

Algorithm Design For Library Management System :

- Define library services
- Create databases for the services defined
- Capture data into the relations (books, journals, articles, audiovisuals etc)
- Define patrons and their privileges
- Formulate the search engine
- Define and manage patrons/contents interactions.

The goal of this design is to propose a mathematical relational model based on the major activities of a typical library. The structural view

of the design is based on three tier level architecture as shown in figure.



CONCLUSION:

- The primary goal of this initiative is to reduce human effort.
- All records are kept in the ACCESS database, which allows data to be easily retrieved. This makes record maintenance more efficient. The navigation control is available in all forms to help you move through the vast number of records.

- If the number of entries is huge, the user only needs to type in the search string and the results will be displayed quickly.
- The editing process has also been simplified. To update the desired field, the user only needs to put in the required field and push the update button.
- A unique id number is assigned to both the books and the students. In order for them to be accessed successfully and without issues. The project's major goal is to obtain accurate information about a specific student as well as books available in the library. To a considerable extent, the difficulties that existed in the previous system have been eliminated. And it is believed that this project would go a long way toward meeting.