

DEFINE PROBLEM/PROBLEM UNDERSTANDING:

- Problem-solving enables us to identify and exploit opportunities in the environment and exert (some level of) control over the future. Problem solving skills and the problem-solving process are a critical part of daily life both as individuals and organizations.
- Problem solving is the act of defining a problem; determining the cause of the problem; identifying, prioritizing, and selecting alternatives for a solution; and implementing a solution.

SPECIFY THE BUSSINESS PROBLEM:

- Data errors, which may be caused by human errors, system glitches, or external factors, are inconsistencies or inaccuracies in the information stored in your LMS. To prevent and correct these errors, you should establish and enforce data quality standards and policies for library staff and users.
- Needless to say, the average public library in the United States does not have the resources, funding, or space to house those state-of-the-art facilities. In fact, operation expenses and administrative costs for libraries have grown exponentially over the last several years.
- The purpose of a library management system is to manage & track the daily work of the library such as issuing books, return books, due calculations, etc.
- The Paper also traces and analyze problems area like lack of proper planning, lack of fund/economical resources, lack of resources and technology, lack of skilled or trained staff /professional and other related issues.
- Never leave your stuff unattended, even to reshelve a book or go to the bathroom. Someone can steal your laptop or backpack in a few seconds. The toughest problem people face is concentration and focus.
- The main objective of the Library Services is to offer free book reading facilities to all, to grow healthy readership at all levels, to disseminate knowledge on all, subjects and topics to collect and preserve all documents having research value and local importance, to microfilm old records, Books for reference
- demands for new skills, cost/funding, managing of new generation of learners, lack of skilled manpower, lack of confidence in the face of increasingly information technology, lack of maintenance culture, resistances to changes etc were identified as challenges to managing university libraries in digital era.
- They connect people to information and connect people to people. They are safe havens for kids, providing after-school homework help, games, and book clubs. They offer computer classes, allowing older adults to stay engaged in a digital world.



- library management systems include Koha, Evergreen, and Alma, which are widely used in libraries to streamline operations and enhance user experiences.
- a Library Management system is a complete library automation software, aiming for library management. You can easily build up your own library information database with the help of ISBN auto-cataloging, and import items (collections, books, DVDs, CDs) records, members records from Excel. All the loan/return records, reports, statistics are able to export to Excel format.
- Easy-to-use, affordable, and fully featured library software for libraries. Our customers include schools, churches, communities, non-profits, and businesses from very small to medium sized libraries, mainly managed by casual, volunteer, or part-time librarians.

BUSINESS REQUIREMENT:

The purpose of a library management system is to operate a library with efficiency and at reduced costs. The system being entirely automated streamlines all the tasks involved in operations of the library. The activities of book purchasing, cataloging, indexing, circulation recording and stock checking are done by the software. Such software eliminates the need for repetitive manual work and minimizes the chances of errors.

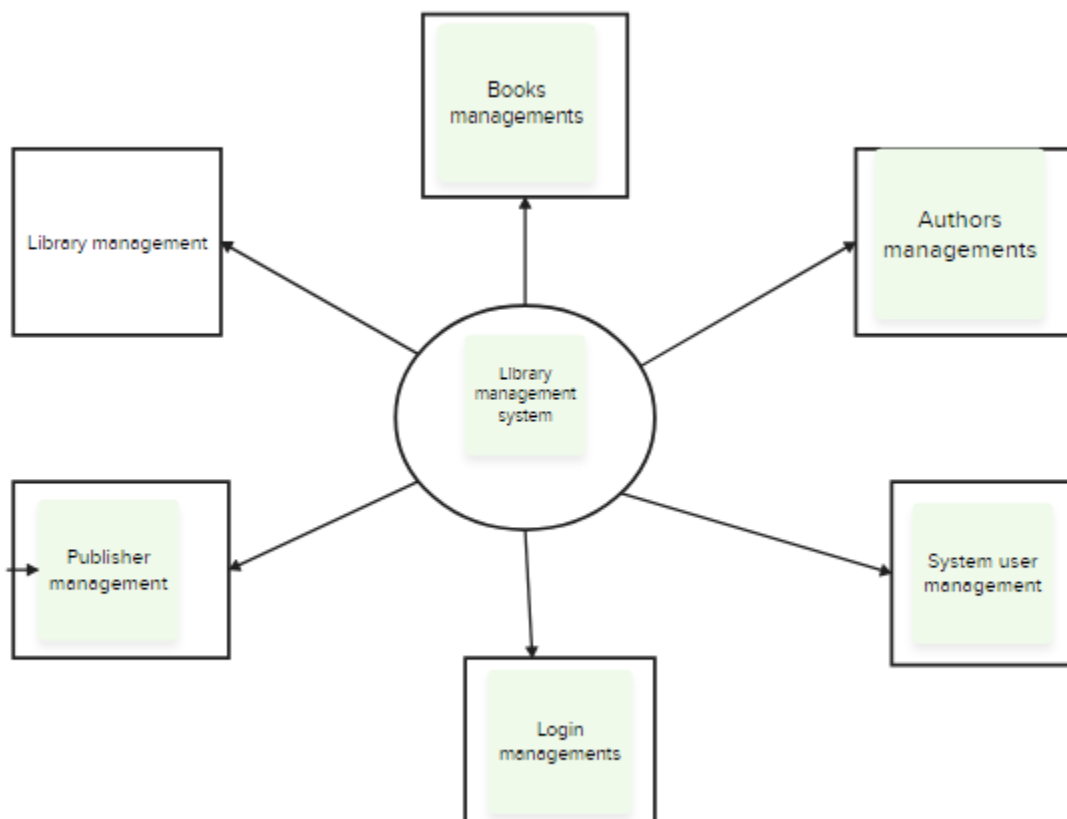
The library management system software helps in reducing operational costs. Managing a library manually is labor intensive and an immense amount of paperwork is involved. An automated system reduces the need for manpower and stationery. This leads to lower operational costs.

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.

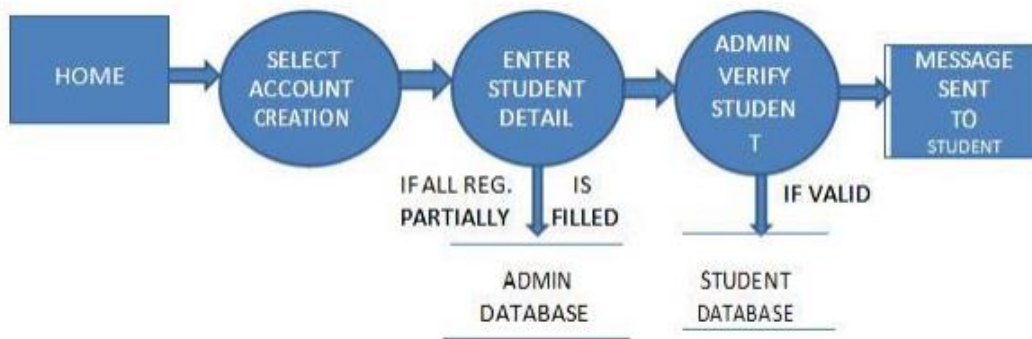
Stock checking and verification of books in the library can be done within a few hours. The automated system saves a considerable amount of time as opposed to the manual system.

The library management system software makes the library a smart one by organizing the books systematically by author, title and subject. This enables users to search for books quickly and effortlessly.

Students need access to authentic information. An advanced organized library is an integral part of any educational institution. In this digital age a web based library management system would be ideal for students who can access the library's database on their smartphones.



- A library management system is software that is designed to manage all the functions of a library. It helps librarian to maintain the database of new books and the books that are borrowed by members along with their due dates.
- This system completely automates all your library's activities. The best way to maintain, organize, and handle countless books systematically is to implement a library management system software.
- A library management system is used to maintain library records. It tracks the records of the number of books in the library, how many books are issued, or how many books have been returned or renewed or late fine charges, etc.
- You can find books in an instant, issue/reissue books quickly, and manage all the data efficiently and orderly using this system. The purpose of a library management system is to provide instant and accurate data regarding any type of book, thereby saving a lot of time and effort.



- Library Management System is a computerized system which helps user to manage the library daily activity in electronic format. It reduces the risk of paper work such as file lost, file damaged and time consuming. It can help user to manage the transaction or record more effectively and efficiently.
- When computerized system is not implemented, files can be lost because of human error. Sometimes due to some human error there may be a loss of records.
- In a non-computerized environment file may be lost due to some accident due to error caused by humans. Besides, some natural disaster like floods or fires may also damage the files
- When there is no computerized system there is always a difficulty in searching of records if the records are large in number.

LITERATURE SURVEY:

LIBRARY MANAGEMENT SYSTEM

Definition:

- An integrated library management system (ILMS) is a software that helps in simplifying the daily operations of the library. The purpose of a library management system is to manage & track the daily work of the library such as issuing books, return books, due date calculation etc.

Language lab software:

- Modern language lab is now done using language lab software integrated with information technology techniques to improve high standards in language teaching and learning.

Features of English language lab software:

- it provides privacy & effective learning and develops confidence in speaking English.
- it helps in developing the communication skill of the learners.
- it helps in teaching English as language and not merely as a subject.

What is Digital Language Lab?

- digital language lab is software which works on digital platform.
- speaker language lab is a digital language lab that provides huge interactive content for learning English skills digitally.
- In the initial stage, the digital language lab focuses on listening and speaking skills. Students are asked to listen to audio lessons given in language lab software and practice them.

* Grammar:

• Detailed grammar is provided for communication in grammatically correct English. One word substitution, prepositions, doing words, etc.

* Interaction:

• Interaction is to learn the accuracy of the pitch of speaking the English language. It is required to know where to stop and how to maintain the flow and avoid hitches.

4. MII:

it helps in the removal of mother tongue influence by practising speaking skills in different contexts like American and British.

4. soft skills:

There are a variety of soft skills courses are available in the language lab like creative writing, listening skills, group discussion, personality development, etc.

The components of modern language lab:

- * a system is allotted to the teacher for conduct language exercises.
- * a storage device is required to keep all the lessons and materials on that system.
- * students require a media player or recorder to record audio lessons and listen to their part.

The function of a language lab system are:

- The teacher can assign assignment to the students.
- it is based on popular examinations.
- online learning enhances listening and speaking skills.

listening skills: To acquire any knowledge the first step begins from listening until we listen to something because we will speak it.

speaking skills: speaking is the second language skill. speaking skills give us the ability to communicate effectively. Likewise, English language helps improve speaking skills and communication skills by repeatedly listening to the language over the headphones till the student

reading skills: we start reading in school and improve gradually by practicing the language. school provides many software facilities reading exercises with dictionaries and phonetic help for the student fluency and comprehension skills.

writing skills: we initially start writing alphabets and gradually learn writing sentences. writing is an important part of communication. improving writing skills which will automatically enhance the communication skills among students and bring confidence.

English Language Lab!

• Language lab software is a classroom based solution which will be installed on the computers in classroom and the content can be accessible in the respective classroom system.

LSRW Activities for benefits of the students/learners!

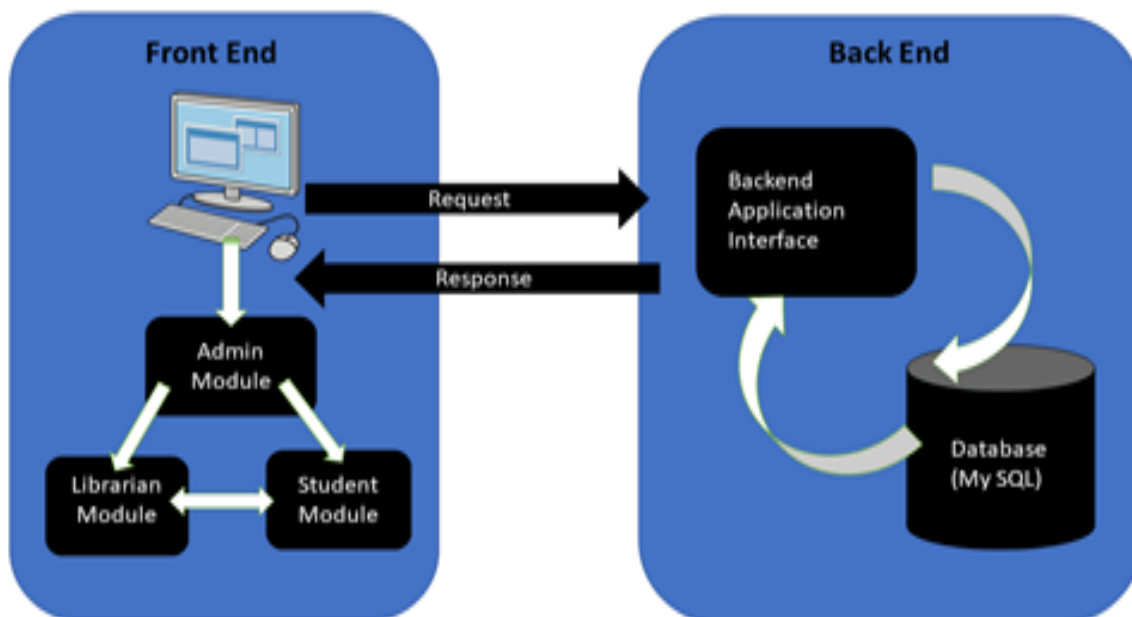
• LSRW expands to listen, speak, read, and write. LSRW is considered the most effective methodology for learning English language.

Language Lab software As per AICTE!

• AICTE is the regulatory body governing the higher educational institutions in India. Few people in India know how to speak and write correct English. The English Language Lab provides an interactive platform and solves over the problems that a traditional English classroom would face.

SOCIAL OR BUSINESS IMPACT:

- A library management system can help you seamlessly transition from manually managed libraries to automated libraries, making them more efficient and effective. The Library management system's primary role is to securely keep all data on materials discovered in a library in a cloud data storage.
- Libraries play a vital role for a nation by preserving its cultural heritage. In the modern age with the abundance of information, libraries assist the society by maintaining and disseminating the relevant information as and when required.
- Research shows that school libraries have a positive impact on student literacy and learning outcomes. Read a selection of research reports illustrating the effectiveness of library services that are aligned with the school's vision and learning goals



- As we know, any software application consists of broadly three parts: Front-End, Back-End and a Database part. This application also has these three parts.
- The front-end part helps the admin and librarian to interact with the database.
- 4The front-end part is further divided in to three different sections or application modules. Those application modules are Admin Module, Librarian Module and Student Module. These modules can be accessed by the administrator, librarian and students by interacting with the front-end screens of the application respectively. The modules are internally connected with the backend portion and the database.
- The whole software application is divided in to three modules which are Admin Module, Librarian Module and Student Module.
- These three sections are accessible through the application's three different panels.

making it user-friendly. The modules are interconnected with each other so that they can communicate the information between them. For example, admin module is connected to the librarian module and only those people can access the librarian module which are authorised by the administrator under the admin module. Similarly, the students will be able to access the student module only if they are registered in the library database by the librarian

