

**SYNOPSIS**

**ON**

**Your Project Name**

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INTRODUCTION

A library management system keeps track of the books present in the library. It is an important piece of software which is a must at schools and colleges. We will build a library management system using Tkinter to make it interactive.

Python offers various utilities to design the GUI wiz Graphical user Interface, and one such utility is Tkinter which is most commonly used. It is indeed one of the fastest and easiest ways to build GUI applications. Moreover, Tkinter is cross-platform, hence the same code works on macOS, Windows, and Linux.

 library management system project with simple and easy code. This python Library system implemented data storage in MySQL Database. This Database contains the different tables to maintain the data about the library. This Library Management project has different features

To implement python Library Management project used below modules

**MySql Connector** : This module is used to connect mysql database to fetch/add data into database

**DateTime** : To set date and get current date and update the details on the tables

EXISTING SYSTEM

During analysis, data collected on the various files, decision points and transactions handled by the present system. Training, experience and comman sense are required for collection of relevant information needed to develop the system. The success of the system depends largely on how clearly the problem is defined, thoroughly investigated and properly carried out through the choice of solution.

A good analysis model should provide not only the mechanism of problem understanding but also the frame work of the solution. Thus, it should be studied thoroughly by collecting data about the system. Then the proposed system should be analyzed thoroughly in accordance with the needs.

System analysis can be categorized into four parts:

• System planning and initial investigation

• Information Gathering

• Applying analysis tools for structured analysis

• Feasibility study

Feasibility of Project

Whatever we think need not be feasible. It is wise to think about the feasibility of any problem we undertake. Feasibility is the study of impact, which happens in the organization by the development of a system. The impact can be either positive or negative. When the positives nominate the negatives, then the system is considered feasible. Here the feasibility and Economical Feasibility.

Technical Feasibility

We can strongly says that it is technically feasible. Since there will not be much difficulty in getting required resources for the development and maintaining the system as well. All the resources needed for the development of the software as well as the maintenance of the same is available in the organization here we are utilizing the resources which are available already.

Economical Feasibility

Development of this application is highly economically feasible. The organization needed not spend much m one for the development of the system already available. The only thing is to be done is making an environment for the development with an effective supervision. If we are doing so, we can attain the maximum usability of the corresponding resources. Even after the development, the organization will not a condition to invest more in the organization. Therefore, the system is economic feasible.

FUNCTIONAL SPECIFICATION

The basic functions of library management include,*,*[*overseeing all library operations*](https://en.wikipedia.org/w/index.php?title=Overseeing_all_library_operations&action=edit&redlink=1),[*managing library budget*](https://en.wikipedia.org/w/index.php?title=Managing_library_budget&action=edit&redlink=1), planning and negotiating the [acquisition of materials](https://en.wikipedia.org/wiki/Library_acquisitions), [Interlibrary Loan](https://en.wikipedia.org/wiki/Interlibrary_loan) [ILL] requests, stacks maintenance, over seeing fee collection, [event planning](https://en.wikipedia.org/wiki/Event_planning), [fundraising](https://en.wikipedia.org/wiki/Fundraising), and [human resources](https://en.wikipedia.org/wiki/Human_resources)

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.

**Software Specification:**

* Operating System : Window 98 , Window XP , Window 7 or Better
* Language Used : Python , MySql
* Front End : IDLE , Jupyter NoteBook
* Back End : MySQL server

**Hardware Requirements:**

* Processor : Pentium IV or Better
* RAM : 128MB or more
* Hardware Device : Any
* Hard disk : 20GB
* Key Board : 122 keys

FUTURE SCOPE

The scope of Online Library Management System includes:

--- Create distinct product users based on their roles and permissions.

--- Authenticate users at their login.

--- Provide the list of books the users can borrow.

--- Facility to reserve books that are available.

--- A status page for all users to view books reserved by them.

--- A status page for all users to view books borrowed by them, their individual due dates and their individual penalties if any.

--- An interface to view and edit the own profile.

--- Providing interface to add or delete books to staffs.