

LIBRARY MANAGEMENT SYSTEM





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PROJECT SYNOPSIS

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.

OBJECTIVE:


- ▶ To create an interface to facilitate users to search and avail books from a library. It also facilitates the librarian to maintain a record of the books being bought and lent.
- ▶ This project is created with the help of the tkinter module which will provide the Graphical User Interface and mysql is used as the backend technology
- ▶ It is a user-friendly program which reduces data redundancy and shows error if some invalid values are supplied.
- ▶ The basic idea of the program is to create a management system where all the details can be easily stored and can be referred to whenever needed .
- ▶ This will increase the accuracy of the work and things will get done faster and more efficiently, which saves time.

PRE-REQUISITES:

- ▶ To execute python codes, an integrated development environment called pycharm is installed and to maintain the databases, mysql is installed . The GUI interface is used by importing a python module called tkinter.

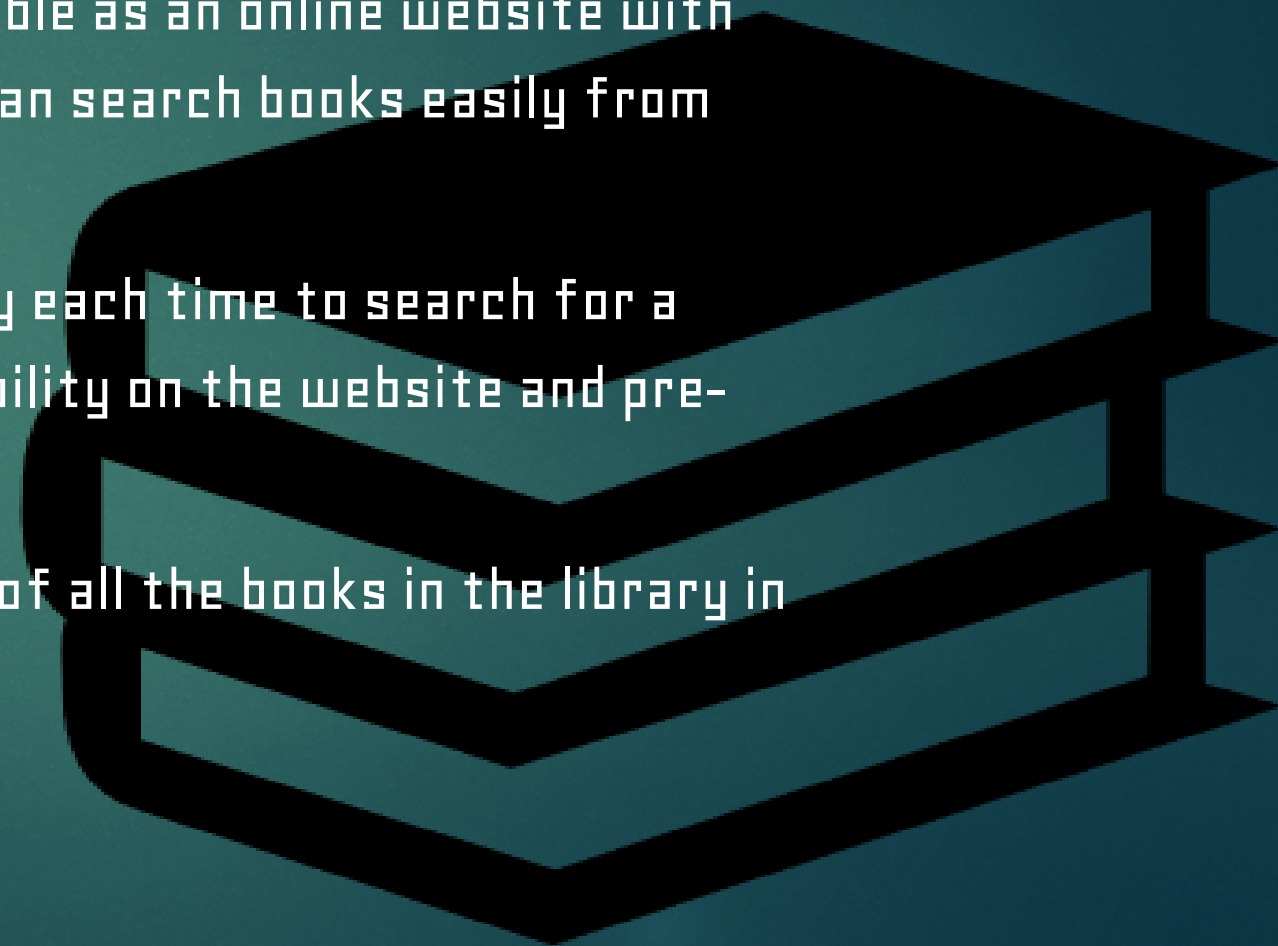
PROCEDURE:

- ▶ Library management system is an offline application program. Here, the user can create an account to gain access to the library and its books. They can keep a track of the books he/she has borrowed and view the books available in the library.
- ▶ This project enables the customer to search for his/her desired book and borrow 3 books at a time with the time period of 60 days return

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- ▶ The librarian can keep track of book information like availability, details of customers who have previously borrowed the book, etc.
 - ▶ The librarian will be able to access the information about the lent books, availability of the books, customer information etc. The librarian can also add a book, delete a book, view the record of a book,
 - ▶ This system can be used by both member of the library and the customers

FUTURE SCOPE OF THE PROJECT:

- ▶ In the future, we can make this available as an online website with the help of Django so that the users can search books easily from any place.
- ▶ Book readers need not visit the library each time to search for a book. They can easily check its availability on the website and pre-book it to collect it later.
- ▶ Library admins can maintain records of all the books in the library in an efficient manner.



Developer Software Requirements:

Front end: Python

Back end: MySQL

Modules used: Tkinter, Pillow, Pymysql

IDE: Pycharm

End User Requirements: