

Public Library Management System

Abstract

Libraries are popular places where there are numerous books to keep track of. Not only books but the librarian is also required to keep track of users, books that were taken, due dates, etc. Making manual entries and keeping track of due dates is not easy when the user's size is more. It becomes complex when there are numerous books and when the members of the library are increasing. Tracking members and books details become time-consuming and are prone to error. Thus, the objective of the project is to come up with easy to use and user-friendly application that helps the librarian with all the tasks related to efficient library management. Main modules of the project are Admin, Librarian and user. Admin has the overall control of the application. Librarian deals with book management ,issuances of books, return of book, and penalty. User can login or logout from the application. User deals with book search, request book, view the current user status and prebook .

Modules

1.Admin

2.Librarian

3.User

Functionalities Of Admin

- a. Login-Admin can login use their user id and password
- b. Librarian Management-Admin can register librarian use appropriate registration details.
- c. Category Management-Admin can categorize the books based on their content.

- d. Approve/Reject -Admin can approve or reject user request
- e. Logout-Admin can logout from their page

Functionalities Of Librarian

- a. Login -Librarian can login use their user id and password
- b. Profile Updation-Librarian can update their profile.
- c. Book Management-Librarian can add ,view, edit and book details
- d. Book Search-Librarian can search book based on category, title, author, published year, ISBN no, ISSno
- e. Issue Book-Librarian can issue book to user
- f. Return Book-Librarian can return the books
- g. Penalty Management-Librarian can add penalty to the user
- h. Logout-Librarian can logout from their page.

Functionalities Of User

- a. Login/Sign up-User can login if they already registered or others can register use appropriate details.
- b. Book Search-User can search a book .
- c. Book Request-User can request to a book
- d. Pre Books-User can prebook a book
- e. Penalty Management-User can view their penalty.
- f. Cancel-User can request to cancel their membership in the library.
- g. Logout-User can logout from the application

Existing System

Existing System of managing library is manual .It is very difficult for a librarian to manage all the task related to library. In existing library management librarian deals with user management ,book

management, penalty management through manually,. This task if carried out manually will be tedious and includes chances of mistakes.

Now days ,in an current library ,librarian register user ,add books ,categorize books ,issue books ,return book, and add penalty .All the task are doing manually, it makes difficulties for the librarian to manage all the task.

Disadvantages Of Existing System

- Time consuming and tedious process.
- Difficulty to manage all the task.

Proposed System

A public library management is a project that manages and stores books information electronically . The system helps both user and librarian to keep a constant track of all the books available in the library. This application solves all issues of a manual library. Thus, the objective of the project is to come up with easy to use and user-friendly application that helps the librarian with all the tasks related to efficient library management. Here the system has mainly three modules admin, librarian, user. Admin control overall system.

Admin can approve user registration and decide the categories of books. Librarian deals with book management, issue of book, penalty management .User deals with book search, request to books and penalty. The application is expected to be a secure, user-friendly, and easy-to-use database application for library management, that is capable of performing library tasks like adding books, searching books, issuing books, returning books, and generating fines .The application is expected to simplify the librarian tasks, reduce errors in bookkeeping, and make the task interactive and interesting.

Advantages

- The library software is user-friendly, intuitive, and easy-to-use

- Highly secure and efficient library management

Technologies used

Front end: Html, Java Script, CSS, Bootstrap

Back end: Python,Postgresql

Framework:Django