Book Records

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Abstract

Book Records is a design that aims in developing a computerized system to maintain all the diurnal work of the library. This design has numerous features which are generally not available in normal book records like the facility of stoner login and the installation of preceptors login. It also has an installation of an admin login through which the admin can cover the whole system. It also has a facility of an online notice board where preceptors can pupils can put up information about workshops or forums being held in our sodalities or near sodalities and the librarian after proper verification from the concerned institution organizing the forum can add it to the notice board. It has also an installation where pupils after logging in to their accounts can see list of books issued and its issue date and return date and also the students can request the librarian to add new books by filling the book request form. The librarian after logging into his account i.e. admin account can generate various reports similar as pupil report, issue report, schoolteacher report and book report.

Overall, this design of ours is being developed to help the scholars as well as staff of the library to maintain the library in the most stylish way possible and also reduce the mortal sweats

Keywords: HTML, PHP, BOOTSTRAP, XAMPP, MySQL database

Introduction

Book Record is the process whereby we put the record of the book by its name, publisher and the price, which being stored in the book store.

Book Record sell books and book-adjacent items, of course. But they also may serve as editorial offices, publishing houses, classrooms, and lecture halls, not to mention cafés, play spaces, and reading rooms. Sites of collaboration and exchange, bookstores, like libraries, can help hold a community together.

The purpose of book records is to help in planning book storing activities, to know readers' requirements, allocation of budget and for monitoring progress of a bookstore. Records are also a valuable tool to access the work load in the bookstore.

This Book Record system will provide people at every stage with books information, online viewing of books and all a lot about books facilities. To create an online bookstore/Library where users can view books and then, can purchase/borrow books base on title, author and subject. It impacts positively on the academic achievement of the students as it helps students/Customers to enhance their study and research skills. This SRS will describe the solution of all problems such as time wasting. It will provide facilities to all users to buy and borrow books from the same platform.

Literature review

Proposed System

An online library system is a practical result for the being issues of the traditional library system. It's principally a windows operation that's erected substantially on Java technology and relational database(sql). The analogous operation can also be erected using the web technologies like HTML, CSS and JavaScript and a corresponding database, that can be a relational database like sql, mystic or no- sql database like mongodb. Using this operation software, the librarian can search any book by using the issued book id of that particular book in just a alternate. He can also add new scholars, new books to the library database, can issue books, return books by making the necessary changes to the database part from the operation stoner- interface. The whole operation is divided into different section depending upon its operation. The different sections are explained in the armature part of this paper.

Architecture

The user classes of this system are:

● Admin

Admin should know how to deal with problems like system hanging, crashing and power failure so that he can keep up with the system maintenance. Characteristics of the admin include keeping a record of available books, addition of new books and removal of useless books. In case of a buyer, the admin can edit the price list and keep a record of books available in the book record. whereas in case of a borrower, he can allocate the books that are borrowed.

● Borrower

Borrower will check if the book he wants to borrow is available or not. He can check borrowed books and personal information like Book Id, Book Title and Author name etc. As well as he can also submit a request to borrow the required book.

- Buyer

Buyer will check if the book he wants to buy is available or is in stock or not. He can check his purchased book list and personal information like Book Id, Book Title, Author name and Book price etc. As well as he can also submit a request to buy the required book.

All these users must know how to operate a system and should have a basic understanding of English language.

Research gap

This research has focused on the development of a website using frontend technologies such as HTML, CSS, and JavaScript. There are several research gaps that have been involved in this study. First, a proper and stable internet connection will be required for checking the borrowing, buying and adding books. Apart from that, the transition to online tools is considered to be a good idea for investment in the possible internet services in a particular region. There are several people that have been performing their business in online mode, and thereby web-based bookings often become a significant method for attracting new customers. Online websites can often crash, and produce incorrect results that can decrease the user experience and also create problems for the users. Apart from that, there are several people that do not have access to adequate knowledge of using an online library system. For them, online borrowing, buying and adding books is a hassle job since they prefer to use offline systems of borrowing, buying and adding books.

Methodology

The methodology we are going to use for this project is Agile Model. Libraries must continually adapt to meet the ever-changing needs of users. Doing so requires the ability to be flexible and respond quickly. In general, the agile development process means an incremental work process that promotes the importance of customer satisfaction, collaboration, communication, teamwork, good quality and planned follow-up practices.

Following are the reasons for choosing Agile model Methodology:

- Changings requested by customers are always accepted during any phase of the product.
- It supports team-building and teamwork.
- Rapid delivery of the working product leads to customer satisfaction.
- Continuous testing.
- Attention is paid to the good design of the product.

Functional Requirements

Admin

- Admin shall be able to login.
- Admin shall be able to view records of available books.
- Admin shall be able to add a new book from the library / bookstore.

- Admin shall be able to remove any book from the library / bookstore.
- Admin shall be able to manage buyers (One who purchases books from the bookstore).
- Admin shall be able to manage borrowers (One who borrows books from the library).
- Admin shall be able to manage books.
- Admin shall be able to allocate the books to borrowers according to the book prices.
- Admin shall be able to sell the books to buyers.
- In case of borrowing books from the library, the admin shall be able to keep a record (Like Student reg No, Id card, Phone No etc.) of that particular student.

Borrower (Library):

- The borrower shall be able to login.
- The borrower/student shall be able to view the book record so that he/she can choose the required book.
- The borrower shall be able to view the Complete information of any book like Book Id, Book Title, Author name etc.

Buyer (Book Store):

- Buyer shall be able to login.
- Buyer shall be able to view the book record so that he/she can purchase the required book.
- Buyer shall be able to view the complete information of any book like Book Id, Book Title, Author name and Book price etc.

Conceptual design

This study has focused on the development of a system that can be used for developing an online library system website. For the purpose of development, different technologies have been used such as HTML, CSS, and JavaScript. First, HTML has been used to design the structure of the website followed by CSS for styling purposes, and finally JavaScript for the logic building and creativity of a website.

Results and Discussion

The system of BOOK RECORDS helps in providing different types of interactive, and graphical interfaces. The system of BOOK RECORDS provides easy to use Graphical User Interface as a part of the working desktop in the working of an administrator When the librarian opens the application, a login page will come on the screen. After successful login by the librarian, a home screen will come in front of it where he can do all the operations. He can go to different sections on the home screen to perform various operations.

Conclusion

This website provides a computerized version of library management system which will benefit the students as well as the staff of the library. It makes entire process online where student can search books, staff can generate reports and do book transactions. It also has a facility for student login where student can login and can see status of books issued as well request for book or give some suggestions. It has a facility of teacher's login where teachers can add lectures notes and also give necessary suggestion to library and also add info about workshops or events happening in our college or nearby college in the online notice board.

There is a future scope of this facility that many more features such as online lectures video tutorials can be added by teachers as well as online assignments submission facility , a feature Of group chat where students can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfills each users need in the best way possible.

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