

# Online Library Book Refer and Entries

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**Abstract:** *This report describes the project development of Online Library Book Refer And Entries System that was developed to manage the daily book transaction and manage the member, books record more efficiency. It can improve management of the book property in the library. This system is mainly use by librarian and library admin. Normal Librarian is able to manage the member maintenance module, book maintenance module and also the most important module in a library which is book transaction module. Besides that, library management system also allows user to manage the publisher as well as lost book module. On the other hand, other type of user which is admin level staff is able to handle the staff module and view the report module. The Online Library Management has been designed to computerize and automate the operations performed over the information about the members, book issues and returns and all other operations. This computerization of library helps in many instances of its maintenances. It reduces the workload of management as most of the manual work done is reduced.*

**Keywords:** Book, Library, Student

## I. INTRODUCTION

The main objective of the Online Library Book Refer And Entries System is organizing and managing the library tasks. Library is place where all kind of books are available. This is a web base application and only a registered user can access the application. This system is developed to automate the task of entering the records of new book and retrieving the details of book available in the library. This system contains list of all the books. Using this system user can issue book to the library member, maintain their records, and can checks how many book are issued and how many books are available in the library. This system provides separate interface and login for librarian, students and faculties. Librarian can modify database. Using the library management system, user can also maintain the late fine of library member who return the issued book after the due date.

Users can search for books and renewal books online. In the proposed system, we assume that each member will be having a identity card which can be used for the library book issue, fine payment etc. They can recommend for new books by just sending messages to the librarian from any where in the college. whenever library member wish to take a book, the book issued by the library authority will be check both the book details as well as the student details and store it in library database. They can view the issue and return dates of any book and due they have to pay.

## II. OVERALL DESCRIPTION

### Existing system drawback

In our existing system all the transaction of books are done manually, So taking more time for a transaction like borrowing a book or returning a book and also for searching of books. Another major disadvantage is that to preparing the list of books borrowed and the available books in the library will take more time, currently it is doing as a one day process for verifying all records.

Online Library Book Refer And Entries System is a project which aims in developing a computerized system to maintain all the daily work of library . This System mainly focuses on basic operations in a library like adding new member, new books, and updating new information, searching books and members and facility to borrow and return books. This project has many features which are generally not available in normal library management systems like facility of user login and a facility of teachers login . the user is able to generate different kinds of reports like lists of students registered, list of books, issue and return reports. "Online Library Book Refer And Entries System" is designed to help users maintain and organize library.

It is used by librarian to manage the library using a computerized system where he/she can record various transactions like issue of books, return of books, addition of new books, addition of new students etc. Proposed system is an automated Library Management System. It also has a facility of admin login through which the admin can monitor the whole system . Using this system student can login system online and after logging in their accounts can see list of books issued and its issue date and return date. Through our software user can add members, add books, search members, search books, update information, edit information, borrow and return books in quick time. Using library management system, students can also request the librarian to add new books by filling the book request form. Using this system librarian can generate various reports such as student report , issue report, teacher report and book report. Books and student maintenance modules are also included in this system which would keep track of the students using the library and also a detailed description about the books a library contains.

Overall this project of ours is being developed to help the students as well as staff of library to maintain the library in the best way possible and also reduce the human efforts. With this computerized system there will be no loss of book record or member record which generally happens when a non computerized

All these modules are able to help librarian to manage the library with more convenience and in a more efficient way as compared to library systems which are not computerized.

#### **Online Library Book Refer And Entries System System divided in two modules–**

- Student
- Admin

#### **Admin Features**

- Admin Dashboard
- Admin can add/update/ delete category
- Admin can add/update/ delete author
- Admin can add/update/ delete books
- Admin can issue a new book to student and also update the details when student return book
- Admin can search student by using their student ID
- Admin can also view student details
- Admin can change own password

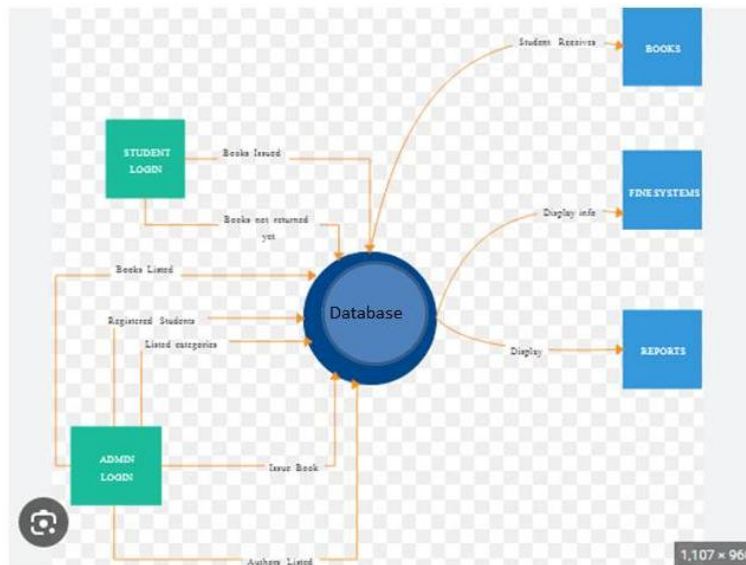
#### **Students-**

- Student can register yourself and after registration they will get studentid
- After login student can view own dashboard.
- Students can also view the listed books in the library.
- Student can update own profile.
- Student can view issued book and book return date-time.
- Student can also change own password.
- Student can also recover own password.

### **III. PROJECT AIMS AND OBJECTIVES**

1. The aims and objectives are as follows:
2. Online book issue. Improvement in control and performance
3. Request column for librarian for providing new books. The system is developed to cope up with the current issues and problems of library .The system can add user, validate user.
4. A separate column for digital library. Librarian is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time.

**Block Diagram**



**IV. REQUIREMENT SPECIFICATIONS**

**Hardware Requirements:**

- Memory: 2 GB Hard Disk: 500 GB
- Processor: Intel Core i3, i5

**Software Requirements:**

- Operating System: Windows 10,11
- Front Design: Sublime Text Editor
- Frontend Language: HTML, CSS, BOOTSTRAP
- Backend Language: PHP, SQL (phpMyAdmin)

**Features Requirements:**

- It saves time organizing different events.
- It helps to control the problems that usually happening an daily life.
- Online data submission is secure
- It gives real-time results.

**Reliability**

If the university LAN goes down or the server goes down due to a hardware or software failure, the software will not be able to connect to the central database.

**Availability**

The application is only available to authorized users of the university. The teachers will be able to mark the student’s attendance and display all the enrolled courses, whereas admin will be able to add and update student records and perform operations on various parameters.

**Portability:**

The software is a Windows-based application, written in Java and SQL (phpMyAdmin), so it is platform-independent and operating system independent.

## V. DESIGN

### Input design:

The input design is part of the overall system design and requires special attention. The input data design aims to make data entry simple and error-free. The input form is designed using the controls available in the Java framework. Input design is the process of converting user input into a computer-based format. System users interacting through the workstation must be able to instruct the system to accept inputs in order to generate a report.

### Output Design:

Output Design of the given application "Car Rental System" generally refers to the results and informations that the system produces for many end users. Output is the main reason for developing a system and is the basis for assessing the usefulness of an application. The output needs to be attractive, convenient, and informative.

## PROJECT DESCRIPTION

### Problem Definition:

Integrated Campus Solutions (ICS) is a holistic platform designed to streamline educational administration, enhancing efficiency and user engagement. It integrates several key modules, making campus management seamless for students, faculty, and staff.

## SYSTEM TESTING

After the source code is generated, you need to test the software and find (and fix) as many errors as possible before delivering it to your customers. Our goal is to design a set of cases that are likely to find bugs. Software techniques are used to reveal the error. These techniques provide a systematic guide for testing the internal logic of software components and the input and output domains of a program to design tests that reveal errors in program functionality, behavior, and performance. The internal program logic is executed using the white-box test case design technique. Software requirements are performed using the block box test case design technique. In both cases, the goal is to find the maximum number of errors with as little effort and time as possible.

## SYSTEM MAINTAINANCE

Software Maintenance does a lot of things other than just finding bugs. You should be prepared for any changes in the environment that might affect one's computer or other parts of his/her computerized system. Such activities are commonly referred to as maintenance. This includes both improving system functionality and eliminating failures that occur when operating a new system. This may include the ongoing involvement of most of the resources of the computer department. The most crucial task of the application or existing system is to change the environment.

## VI. CONCLUSION

This System allows the user to store the book details and the customer details. This software package allows storing the details of all the data related to library. The system is strong enough to withstand regressive yearly operations under conditions where the database is maintained and cleared over a certain time of span. The implementation of the system in the organization will considerably reduce data entry, time and also provide readily calculated reports.

### Scope of future development:

The project has a very large future scope. The project can be implemented on the intranet in future. The project is very much flexible in terms of expansion that it can be updated in the near future if needed. With the proposed Database Space Manager software ready and fully functional, customers have the ability to manage and perform multiple tasks in a much better, more accurate as well as error-free way.

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