

Library Management System

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Abstract: This keeps record of different categories like books, magazines, journals etc. It will classify the books subject wise. This is the easy way to enter new book. It will keep record of complete information of a book like book name, author name, publisher name, date/year of publication, cost of the book, book purchasing date/bill number. It is a easy way to make a check-out. Automatic fine calculation for late returns of the book is available. Different criteria for searching a book is available. It has different kinds of reports like total number of book etc. Easy way to know how many books are issued to a particular student. Easy way to know the status of the book. Online access for registered user to see the status of their book. This paper proposes a library management system.

Keywords: Library; implementation; library management; mobile application.

1. INTRODUCTION

This is the Library Management System project where we are developing an mobile application for the use of the student. We are going to develop these mobile application using windows application. In this application we are using c#.net as a programming language to develop this app. We are using oracle as a database. These mentioned above are the specification what we are going to indulge in our project. This is a project where student can issue book online. He/she can apply for the required book with the use of mobile application. After requesting for a book, the user will get a notification stating that the book is available in the library. The advantage of these project is that, there is no need for a student to visit library again and again, instead he/she can sit anywhere and apply for the book. This is the main advantage of our project. If he/she doesn't find the requested book, they will be put in a queue. After the requested book arrives, the user will get a notification saying that the book is available in the library and he/she can issue the book. While issuing for the book the user must enter the book name, author name and the required details. This project of ours is beneficial in all the ways. First who will request for a book will get a book first. This is based on the queue system. If there is no hardcopy at least there must be a hard copy available. If there is a soft copy also it should be maintain private so that other users should not be able to access it. This is the overall functionality that you are going to indulge in a project.

2.. DESIGN

A. USE CASE DIAGRAM



The above shown figure is the use case diagram. This exactly shows how the transaction occur in the library system, that is between librarian and the student. This includes login process for issue of the book. After the logging in process is successful, several task of adding book, branch etc has to be done. It will also check for the availability of the book, based on which notification will be sent to the student/user. Student can also return book based on his/her willing. If the particular book is not returned on time, penalty will be imposed for the book issued. This is the functionality process that occurs in the library system.

3. REQUIREMENTS FOR THE PROJECT

Platform: windows

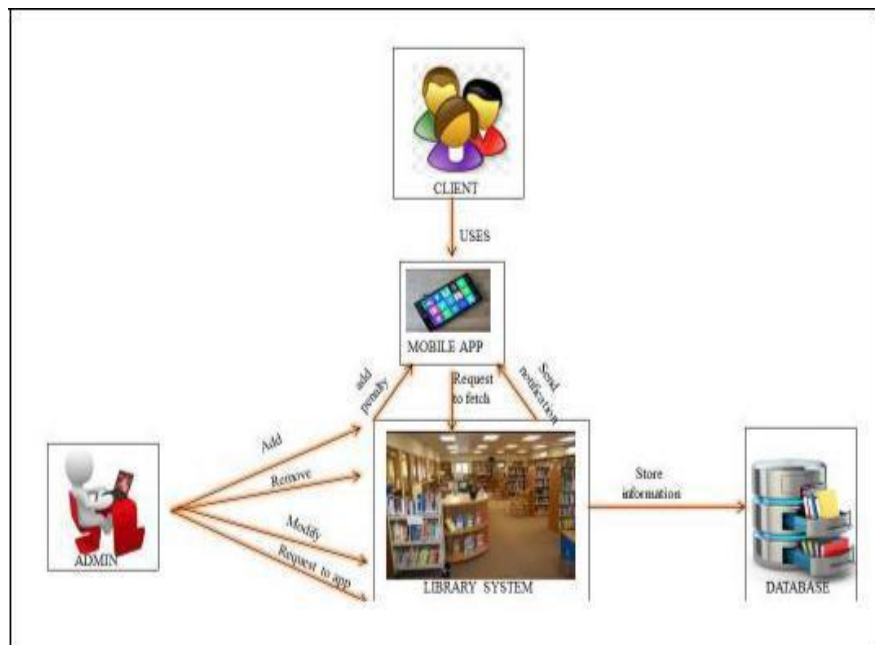
Host Software:

Front end tool: Microsoft visual studio

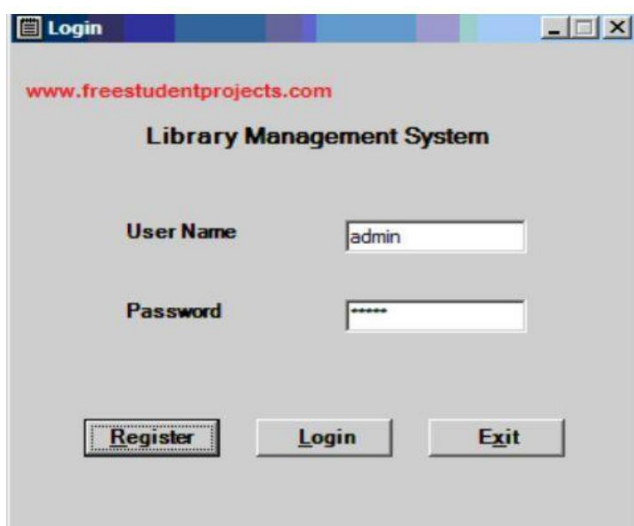
Back end tool: Oracle database

4. IMPLEMENTATION

This is the implementation part of our project. This exactly shows how our project works and the idea behind our project. Our project is implemented mainly based on mobile app/pc. The client/user must make use of the mobile application. This application can also be used in PC. By using this application the user can request for the required book from the library system. The admin can add, remove, modify etc. He can also add penalty if the user doesn't return the book on time. All the information of the library is stored in database of the library management.



5. RESULT AND ANALYSIS





Acc No

Title

Author

Edition

Publisher



ISSUES OF BOOKS

Book No.

Student ID.

Current No. of Copies Available

Issue Date

Due date

The above shown are the snapshots of our project. The first snapshot illustrates the user logging in. First he/she has to enter the user name and then the valid password. Then the user can successfully login. The second tells us about the book, book id book details etc. It also includes account no. author, addition, publisher etc. It also includes issue of book details, issue date etc.

6. CONCLUSION

The “LIBRARY MANAGEMENT SYSTEM” process made computerized to reduce the human errors and increase the efficiency. The maintenance of the records is made efficient as all the records in the database through which data can be retrieved easily. The students are given a particular id number so that they can be accessed correctly and without errors. Our main aim of our project is to get the correct information about particular students and books available in library. The computerization of the Library Management will not only improve the efficiency but will also reduce human stress thereby indirectly improving human resources.

7. REFERENCES

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