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**REPORT**

**Library Management System :**

The project titled Library Management System is Library management

software for monitoring and controlling the transactions in a library .The

project Library Management System is developed in java, which 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.

The software Library Management System has four main modules.

Insertion to Database Module- User friendly input screen.

Extracting from Database module - Attractive Output Screen.

Report Generation module-borrowed book list & Available book list.

Search Facility system - search for books and members.

**Features Of The Library Management System**

1. Menu driven: Project consists of various menus through which we can put

required options.

2. Validations: There are proper validations for the information filled in the

relevant field. Therefore, the chance of wrong entry saved is minimize.

3. Reports: The reports for the required information can be generate easily by

just clicking the button to get details. Reports can be printed.

4. Error messages: The system provides user-friendly environment for every

new user. Even a person who has low knowledge about the system can use

the project. As long as error messages concerned, there is a particular

error on every unauthorized entry and wrong input. There is proper

provision for error message whenever an error occurs.

5. User friendly: The proposed system is properly user friendly so that end

user has very less knowledge of using computer easily work on the

software.

6. Security: The proposed system almost secured by a login id and password

so that nobody can use the system without right and permission.

**USER GUIDE**

1. Adding a new book:

The librarian can add a new book by clicking

Books > Add Books

A new window would appear.

Now fill in all the details about the book and click on “Insert the Information” botton.

2. Listing all books in the library:

The librarian can make a list of all books in the library by clicking

Books > List All Books

A new window would appear which contains details of all the books in the library and he can also take a printout of the generated list by clicking on the “print the books” botton.

3. Listing all available books in the library:

The librarian can make a list of all available books in the library by clicking

Books > List Available Books

A new window would appear which contains details of all the available books in the library and he can also take a printout of the generated list by clicking on the “print the books” botton.

4. Listing all borrowed books from the library:

The librarian can make a list of all borrowed books from the library by clicking

Books > List Borrowed Books

A new window would appear which contain details of all the borrowed books from the library and he can also take a printout of the generated list by clicking on the “print the books” botton.

5. Editting book details:

The librarian can update the details of books by clicking

Books > Edit Books

A new window would appear which ask for “BookID” and after entering the BookID click on the “Edit” button.It will display all the details in the respective fields and now the librarian can make any changes to the details and then update the details by clicking on ”Update the Information” button.

6. Removing book:

For deleting a book the librarian have to click on

Books > Remove Books

A new window would appear where he has to enter the BookID and then click on the Remove button.

7. Adding a new member:

The librarian can add a new book by clicking

Members > Add Members

A new window would appear.

Now fill in all the details about the Member and click on “Insert the Information” botton.

8. Listing all members:

The librarian can make a list of all books in the library by clicking

Members > List All Members

A new window would appear which contain details of all the books in the library and he can also take a printout of the generated list by clicking on the “print the members” botton.

9. Editting member details:

The librarian can update the details of books by clicking

Members > Edit Members

A new window would appear which ask for “MemberID” and then click on the “Edit” button.It will display all the details of the member in the respective fields and now the librarian can make any changes to the details and then update the details by clicking on ”Update the Information” button.

10. Removing members:

For removing a member from the library, the librarian have to click on

Members > Remove Member

A new window would appear where he has to enter the MemberID and then click on the Remove button.

11. Searching for books and members

The librarian can search for any books or members by clicking on

Search > Search

A new window would appear.

Now he can make a search for a book by their subject,title,bookid,author,publisher,ISBN or he can make a serach for a member by their membered,name,email,major.

Now click on the search button. A list would appear containing all the details regarding the books or members, what ever he search for. Now he can also take a printout of that list by clicking on print button.

12. Borrowing a book:

For borrowing a book click on Loan > Borrow a Book.

Now enter the bookid of the book that is to be borrowed, memberid of the borrowing member and the date of return into their respective fields.

Now click on borrow button.

13. Returning a book:

For returning a book click on Loan > Return a Book.

Now enter the bookid of the book that is to be borrowed, memberid of the borrowing member and the fine per day amount into their respective fields.

Press enter after entering the fine per day amount, it will make a calculation for the fine and then display the total fine amount automatically.

Now click on Return button.

14. Issued book details:

For listing the details of issued books click on Loan > Issued book details.

A new window would appear containing details of the issued books.

A printout of the generated list can be taken by clicking on the “print the books” botton.

15. Tools :

Tools like calculator and notepad can be use by clicking on Tools > Calculator for calculator and Tools > Notepad for notepad respectively.

16. About the Library Management System:

To know about the Library Management System click on Help > About.

A new popup window would appear containing the information about the Library Management System.

17. Change Password :

To change the password of the Librarian, click on File>Change Password.

18. Delete Librarian :

To delete the user account from the Library Management System, click on File>Delete Librarian.

19. Exiting from system:

For exiting from the system click on File > Exit.

**Screenshots:**

The screenshots are provided in the folder with the same name…..