

Project Report For Library Management System

DatabaseDesign(CS6360.003)
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User Instructions

The library management system is a system that allows library management to create and maintain accounts in a library where they can check in books and pay fines for overdue books. The different modules of the system which were used are.

Library Module

- It allows the user to access the various functionality like Search, Check in, Check out, Borrower Creation and Fines.

Search Module

- The results will be displayed in the form of tables with the relevant books information. Once the user presses "search" .It allows a user to search for a book by using the combination of either book's author name, book id and title.

Check out Module

- This module allows the student to check out a book from the database.
- The library personnel has to enter the Book_ID, card_no and Branch_ID.
- If the book is available in any of the library branches the book is given else a message is displayed saying that the book is not available.

Check in Module

- The check in module allows the student to check in books which have been already checked out by the student.
- To get 'check in' results we can use either book id or card no or borrower name.
- The library personnel can select one of the books or all the books of the student and enter the 'check in' date to check in the books.

Borrower

- This module allows the library personnel to enter new student users in the library database.
- The details like First name, Last name, SSN and address have to be entered in order to create a new record in the database.

Fines

- Fines module is to update the paid column. If the fee is paid, then the paid is column is set to '1' or else is set to '0'.
- This module allows the student to check the fines for a particular given loan id and also the sum of all the fines for which the student hasn't paid the loan.
- If the loan_id is entered then the fines for the particular loan is displayed, else if the card_id is entered then the sum of the fines for which the student has to pay will be displayed.

Technical Dependencies

- The system was developed in a windows 10 environment.
- The IDE is used to write the code in Eclipse and the GUI interface using Swings
- JDBC connector to connect to MySQL server
- There are two files one has the mysql connectivity code and the other for the application.