

# **Project Proposal**

# **Project Name:**

# JAVA Library Management System - JAVA + MySQL

#### Abstract:

Today most of the library is using either manual system for tracking the day to day activity or they are using desktop, spread sheet like MS Excel application to manage the day to day activity. In this proposed Library Management System it will run in client server mode and user can check the book availability, they can search the books, library staff can issue, receive book, and management can check the report. System will store historical data. Management can anytime view the total book status, library card status. The P2P Library Management System is used to overcome the entire problem which they are facing currently, and making complete atomization of manual or semi automatic process of library management system. This project of "LIBRARY MANAGEMENT SYSTEM" of gives us the complete information about the library. We can enter the record of new books and retrieve the details of books available in the library. We can issue the books to the students and maintain their records and can also check how many books are issued and stock available in the library.

Throughout the project the focus has been on presenting information and comments in an easy and intelligible manner. The project is very useful for those who want to know about Library Management System.

#### Features and Modules:

#### Master and Security module

Master and security module includes user security management, login security, book details, member master, library card, library transaction.

- Login Check the user by user name and password, All user needs to enter user name and
  password to access the system, system check the user name and password and give access the
  system resource only valid user.
- Main Screen It display available options, menus and toolbars to the logged user. System
  display option as per user rights. It also show the name of user currently logged in.
- **New Book** This form used to enter new book details, system generates book id,. User enters book title, book author, publisher name, book description, no of pages, book category.

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- **Display Book** It displays all books in grid, user can short the book by book title, book author, category. User can also print all or selected book details from this screen.
- Modify Book User can edit previously saved book details in this screen.
- Search Book Library system needs powerful book search facilities to find any book. System provides two types of search facilities one is normal search facilities where user enter book title, author name, category, keyword, system perform pattern search and display the result in grid.
- New Member This form used to create new library member, user enter library member details. System generates member id.
- Modify Member In this screen system users modify existing member details
- **Search Member** System provide powerful search facility to search library member, user can search card by giving various search input like member id, member name. System can search single for single search condition or all condition. After search results will display in grid.
- Change Password Currently logged user can change his or her password from this form,
   before system validate old password.
- Create New User Administrator can creates new system users from this form, Administrator enters new user name, password and selects user type to create new user.

#### **Transaction module**

Transaction module includes issuing, receiving book and transaction report.

- **Issuing Book** This form used to issue book to the member. In this screen user selects book id, and member id, system display the book and card history. If book is already issued it display message and details of last issued details. Same way system display card history for the member id, if book already available it shows the message. If book is available and there is no book pending for received then book is issued and system saves the details. System also has powerful search facility to find the book and member id.
- Receive Book In this screen user enters the book issued transaction no, system displays the
  transaction details and book received status. User also checks the book condition and enters
  the remark if needed.

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**Transaction History** - In this report system user can generates book issue and book received details for single member/all members, for single book/ all books, for the selected date or all days. User can also short the record by transaction no, type, book id, member id Readymade Project

# **Software Requirements:**

- **JAVA**
- NetBaens
- MySQL

#### **Hardware Requirements:**

Processor: Preferably 3.0 GHz or Greater.

: 1 GB or Greater.

### Limitations of the Software:

This project was developed to fulfill user requirement; however there are lots of scope to improve the performance of the Java Library System in the area of user interface, database performance, and query processing time. Etc.

#### **Future Enhancements:**

- Linking and integration of other system for accounting system.
- SMS and email facility for cab booking notification

# **Project Details:**

- No of Form, Pages, Reports in project source: 13
- No of database tables: 5
- No of pages in project report: 140

#### **Project Demo:**

https://youtu.be/hsjnl3Tdf7E

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