Library Management System Project**A screenshot of a computer

Description automatically generated with low confidence**

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**Introduction**

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A library management system is based off concepts of Object Oriented Analysis and Design. The library system is an interactive database application for automating various manual processes done by both member and librarian. This full- stack application was designed during the course “INFO-C451 System Implantation” at IUPUI.

**Features  
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* **Searching** of books
* **Issuing** and **returning** books
* Check fines(if any)
* Librarian can read information about any member
* Librarian can track the books issued by a particular member
* Librarian can **add/remove any member**.
* Librarian can **add/delete books**

**Additional Features**

* Displaying all members records.
* Displaying all books records.
* Update Book Records.
* Delete Book Records
* Add Book Records
* Add Member Records
* Delete Member Records
* Update Member Records.  
    
  Diagram

  Description automatically generated

**Requirements**

Apache NetBeans IDE 13 – Front End (JavaScript, HTML, CSS)

DB Browser for sqlite version 3.12.2 Back End   
**Text, letter

Description automatically generated**

**Graphical user interface, text, application, email

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**How to Run**

**-----------------------------------------**

* Download this repo and extract it in your **www/htdocs** directory.
* Import the [database] from [LibraryNew.db](https://github.com/tymcdow/LMS/blob/master/LibraryNew.db).
* Run **localhost/{YOUR FOLDER NAME}**

Test

|  |  |  |  |
| --- | --- | --- | --- |
| No. Login | Test Case | Expected | Test Results |
| 1 | Enter valid user and password | Software will login and display the main window. | Successful |
| 2 | Enter invalid user or password | Password Software should not display the main window. | Successful |
| 3 | Click forgot password button | Software will display forgotten password window | Successful |
| 4 | Click sign up button | Display users sign up window | Successful |
| 5 | Load page | Loading page will appear and load before home page appears. | Successful |

|  |  |  |  |
| --- | --- | --- | --- |
| No. New Account | Test Case | Expected | Test Results |
| 1 | Users will create their username, Name, Password, Security Question, and answer. | Information will be saved into a database. | Successful |
| 2 | Users can click the back button. | User will return to the login page. | Successful |
| 3 | Users can type new user and password. | User login. | Successful |

|  |  |  |  |
| --- | --- | --- | --- |
| No. Forgot | Test Case | Expected | Test Results |
| 1 | Type Username and name | Security questions will be displayed. | Successful |
| 2 | Click retrieve to submit the Security Question | Passwords will be displayed. | Successful |
| 3 | Click retrieve to Answer Security Question incorrectly | Passwords will not be displayed. | Successful |
| 4 | Click return | Return to login page | Successful |

|  |  |  |  |
| --- | --- | --- | --- |
| No. New Book | Test Case | Expected | Test Results |
| 1. New Book | Click new book button | Brings up New book page. | Successful |
| 2. Statistics | Click statistics button | Brings up statistics page. | Successful |
| 3. New Member | Click New Member button | Brings up new member page. | Successful |
| 4. Issue Book | Click Issue Book | Brings up Issue book page. | Successful |
| 5. Return Book | Click Return Book page. | Brings up Return Book page. | Successful |
| 6. About | Click about button | Brings up about page. | Successful |