**Library Management System**

**Data base details**

|  |  |  |
| --- | --- | --- |
| **Tablename** | **Book** |  |
| **Id** | **Text** | **PK** |
| **Name** | **Text** |  |
| **Author** | **Text** |  |
| **Publisher** | **Text** |  |
| **Quantity** | **Int** |  |
| **Issued** | **Int** |  |

|  |  |  |
| --- | --- | --- |
| **Tablename** | **Librarian** |  |
| **Id** | **Int** | **PK** |
| **Name** | **text** |  |
| **Password** | **text** |  |
| **Mobile** | **int** |  |
| **email** | **email** |  |

|  |  |  |
| --- | --- | --- |
| **Tablename** | **Member** |  |
| **Mid** | **Int** | **Pk** |
| **Id** | **Int** |  |
| **Mname** | **text** |  |
| **Mobile** | **Int** |  |
| **Issuedate** | **Date** |  |
| **Returnstatus** | **text** |  |

|  |  |  |
| --- | --- | --- |
| **Library management**     |  | | --- | | **Admin Login** |      |  | | --- | | **Librarian Login** | |

**Admin Login Form**

**Enter name:**

|  |
| --- |
|  |

**Enter Password:**

|  |
| --- |
|  |

|  |
| --- |
| **LOGIN** |

Write name and password. It must be **admin** for name and **admin123** for password.

|  |  |  |  |
| --- | --- | --- | --- |
| **Admin login Form**  **Enter name:**   |  | | --- | | **admin** |   **Enter password :**   |  | | --- | | **\*\*\*\*\*\*\*\*** |  |  | | --- | | **Login** | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Admin Section**     |  | | --- | | **Add Librarian** |  |  | | --- | | **View Librarian** |  |  | | --- | | **Delete Librarian** |  |  | | --- | | **Logout** | |

**Add Libranian**

|  |
| --- |
| **Anisha** |

**Name:**

|  |
| --- |
| **\*\*\*\*\*\*** |

**Password:**

|  |
| --- |
| **anisha@yahoo.com** |

**Email:**

|  |
| --- |
| **Ucl** |

**Address:**

|  |
| --- |
| **London** |

**City:**

|  |
| --- |
| **07505898751** |

**Contact no.**

|  |
| --- |
| **Add Librarian** |

|  |
| --- |
| **Back** |

|  |  |
| --- | --- |
| |  | | --- | | **OK** |   **Message**  **Librarian added successfully** |

**ADMIN SECTION**

|  |
| --- |
| **Add Librarian** |

|  |
| --- |
| **View Librarian** |

|  |
| --- |
| **Delete Librarian** |

|  |
| --- |
| **LOGOUT** |

Now click on **view librarian** to see records of librarian

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **NAME** | **PASSWORD** | **EMAIL** | **ADDRESS** | **CITY** | **CONTACT** |
| 1 | Anisha | aaaaaa | ani@yahoo.com | UCL | London | 07505898751 |
| 4 | James | James1 | jam@yahoo.com | UCL | London | 07606787541 |
| 6 | Albert | Albert | al@yahoo.com | UCL | London | 07303898721 |
| 7 | Neha | Neha | ne@yahoo.co, | UCL | London | 07606575631 |

Now close the table

**Admin Section**

|  |
| --- |
| Add Librarian |

|  |
| --- |
| View Librarian |

|  |
| --- |
| Delete Librarian |

|  |
| --- |
| LOGOUT |

|  |  |  |  |
| --- | --- | --- | --- |
| ENTER ID -------------------------------🡪   |  | | --- | | 4 |  |  | | --- | | DELETE |  |  | | --- | | BACK | |

Now click on Delete Librarian

|  |
| --- |
| MESSAGE  Record deleted successfully! |
| **OK** |

Again click on the **View Librarian** button. You can see librarian is deleted successfully

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | NAME | PASSWORD | EMAIL | ADDRESS | CITY | CONTACT |
| 1 | Anisha | aaaaaa | ani@yahoo.com | UCL | London | 07505898751 |
| 6 | Albert | Albert | al@yahoo.com | UCL | London | 07303898721 |
| 7 | Neha | Neha | ne@yahoo.co, | UCL | London | 07606575631 |

Now close the table

ADMIN SECTION

|  |
| --- |
| ADD LIBRARIAN |

|  |
| --- |
| VIEW LIBRARIAN |

|  |
| --- |
| DELETE LIBRARIAN |

|  |
| --- |
| LOGOUT |

Now click on the **Logout** button

|  |  |  |
| --- | --- | --- |
| LIBRARY MANAGEMENT   |  | | --- | | Admin login |  |  | | --- | | Librarian Login | |

|  |  |  |  |
| --- | --- | --- | --- |
| LIBRARIAN LOGIN FORM   |  | | --- | | Anisha |   ENTER NAME:   |  | | --- | | \*\*\*\*\*\* |   ENTER PASSWORD:   |  | | --- | | LOGIN | |

LIBRARIAN SECTION

|  |
| --- |
| ADD BOOKS |

|  |
| --- |
| VIEW BOOKS |

|  |
| --- |
| ISSUE BOOK |

|  |
| --- |
| VIEW ISSUED BOOKS |

|  |
| --- |
| RETURN BOOKS |

|  |
| --- |
| LOGOUT |

**:::::ADD BOOKS:::**

CALL NO: \_\_K@8\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NAME: \_ NET\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

AUTHOR: \_FOROUZAN\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

PUBLISHER: \_\_TATA Mc \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

QUANTITY: \_\_5\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| BACK |

|  |
| --- |
| ADD BOOK |

|  |  |
| --- | --- |
| |  | | --- | | **OK** |   **MESSAGE**  Books added successfully! |

LIBRARIAN SECTION

|  |
| --- |
| ADD BOOKS |

|  |
| --- |
| VIEW BOOKS |

|  |
| --- |
| ISSUE BOOKS |

|  |
| --- |
| VIEW ISSUED BOOKS |

|  |
| --- |
| RETURN BOOKS |

|  |
| --- |
| LOGOUT |

Now click on the view books button. You can see record is added successfully.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | CALLNO. | NAME | AUTHOR | PUBLISHER | QUANTITY | ISSUED | ADDED DATE |
| 1 | A@4 | C LANG | SHIV | BPB | 2 | 2 | 5AUG,16 |
| 2 | B@1 | DBMS | KORTH | PEARSON | 3 | 0 | 20SEP,16 |
| 3 | G@12 | LET SEE | YASH | BPB | 10 | 0 | 9NOV,16 |
| 4 | K@8 | NET | FOROUZAN | TATA Mc | 5 | 0 | 12DEC,16 |

Now close the table

**LIBRARIAN SECTION**

|  |
| --- |
| ADD BOOKS |

|  |
| --- |
| VIEW BOOKS |

|  |
| --- |
| ISSUE BOOKS |

|  |
| --- |
| VIEW ISSUED BOOKS |

|  |
| --- |
| RETURN BOOKS |

|  |
| --- |
| LOGOUT |

Now click on **issue book** button

|  |  |  |
| --- | --- | --- |
| |  | | --- | | ISSUE BOOK |  |  | | --- | | BACK |   **ISSUE BOOK**  **BOOK CALLNO**: \_K@8\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **STUDENT ID**: \_\_\_100\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **STUDENT NAME**: \_VIMAL\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **STUDENT CONTACT**:\_\_07404898751\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  NOTE: Please check Student ID carefully before issuing book! |

|  |  |
| --- | --- |
| |  | | --- | | OK |   Message  BOOK ISSUED SUCCESSFULLY! |

Now click on the **view issued books** button.

**LIBRARIAN SECTION**

|  |
| --- |
| ADD BOOKS |

|  |
| --- |
| VIEW BOOKS |

|  |
| --- |
| ISSUE BOOKS |

|  |
| --- |
| VIEW ISSUED BOOKS |

|  |
| --- |
| RETURN BOOK |

|  |
| --- |
| LOGOUT |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | BOOKCALLNO | STUDENTID | STUDENTNAME | STUDENTCONTACT | ISSUEDATE |
| 4 | A@4 | 23 | KALYAN | 07606787631 | 15JAN,17 |
| 6 | A@4 | 235 | DAVID | 07303456721 | 20JAN,17 |
| 7 | A@4 | 87 | MARY | 07606454321 | 15FEB,17 |
| 8 | K@8 | 100 | VIMAL | 07404898751 | 20FEB,17 |

LIBRARIAN SECTION

|  |
| --- |
| ADD BOOKS |

|  |
| --- |
| VIEW BOOKS |

|  |
| --- |
| ISSUE BOOKS |

|  |
| --- |
| VIEW ISSUED BOOKS |

|  |
| --- |
| RETURN BOOKS |

|  |
| --- |
| LOGOUT |

**Click on the view books and see quantity is decremented and issued is incremented**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| id | callno | name | author | publisher | quantity | issued | Added \_date |
| 1 | A@4 | C LANG | SHIV | BPB | 2 | 2 | 5AUG,16 |
| 2 | B@1 | DBMS | KORTH | PEARSON | 3 | 0 | 20SEP,16 |
| 3 | G@12 | LET SEE | YASH | BPB | 10 | 0 | 9NOV,16 |
| 4 | K@8 | NET | FOROUZAN | TATA Mc | 5 | 0 | 12DEC,16 |

**LIBRARIAN SECTION**

|  |
| --- |
| **ADD BOOKS** |

|  |
| --- |
| **VIEW BOOKS** |

|  |
| --- |
| **ISSUE BOOKS** |

|  |
| --- |
| **VIEW ISSUED BOOKS** |

|  |
| --- |
| **RETURN BOOK** |

|  |
| --- |
| **LOGOUT** |

Now click on the **Return Book** button

|  |  |  |
| --- | --- | --- |
| |  | | --- | | Return book |  |  | | --- | | Back |   Return book  Book Callno:\_\_\_\_K@4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Student ID:\_\_100\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Note: check the book properly |

|  |  |
| --- | --- |
| |  | | --- | | OK |   MESSAGE  Sorry, unable to return book |

Write the correct Call no and Student ID

|  |  |  |
| --- | --- | --- |
| |  | | --- | | RETURN BOOK |  |  | | --- | | BACK |   **RETURN BOOK**  Book Callno:\_\_K@8\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Student ID:\_\_\_100\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Note: Check the book properly! |

|  |  |
| --- | --- |
| |  | | --- | | OK |   Message  Book returned successfully! |

Again click on the **view issued book** button, records deleted.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| id | bookcallno | studentid | studentname | studentcontact | issuedate |
| 4 | A@4 | 23 | KALYAN | 07606787631 | 15JAN,17 |
| 6 | A@4 | 235 | DAVID | 07303456721 | 20JAN,17 |
| 7 | A@4 | 87 | MARY | 07606454321 | 15FEB,17 |

Now close the table

LIBRARIAN SECTION

|  |
| --- |
| ADD BOOKS |

|  |
| --- |
| VIEW BOOKS |

|  |
| --- |
| ISSUE BOOK |

|  |
| --- |
| VIEW ISSUED BOOKS |

|  |
| --- |
| RETURN BOOK |

|  |
| --- |
| LOGOUT |

Click on the **View books** button. You can see that **quantity is incremented** and **issued is decremented**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **CALLNO** | **NAME** | **AUTHOR** | **PUBLISHER** | **QUANTITY** | **ISSUED** | **ADDED\_DATE** |
| id | callno | name | author | publisher | quantity | issued | Added \_date |
| 1 | A@4 | C LANG | SHIV | BPB | 2 | 2 | 5AUG,16 |
| 2 | B@1 | DBMS | KORTH | PEARSON | 3 | 0 | 20SEP,16 |
| 3 | G@12 | LET SEE | YASH | BPB | 10 | 0 | 9NOV,16 |
| 4 | K@8 | NET | FOROUZAN | TATA Mc | 5 | 0 | 12DEC,16 |

**REQUIREMENT ANALYSIS:**

My project **Library management system** is to manage the working of the library smoothly. There are three databases(tables) in my project. The first one is for books, second one is for the librarians and third one is for the members. The admin will be able to login with his login details. The Admin will be able to add librarian, view and delete librarians. So, the Admin will help in the library management. Librarian play an effective role in library management. Librarians can login, add books, view books, issue books and return books. So, each one has its role to play. Adding books, viewing books, issuing books can be maintained in the system. Librarians update the system when a member returns a book. So, my project gives the layout of an effective library management.