**Library Management system**

**Description:**

  The main aim of "Library Management System" is to improve the services of Students and vendors. It maintains the details of student choice, product receipts, addition of new students, products and also updating, deletion for the same.

The primary features of the project entitled "Library Management system" are high accuracy, design flexibility and easy availability. And also it uses database tables Representing entities and relationships between entities.

**Technology details:**

Front End: PHP

Back End: MYSQL

**Screen details:**

Student Details

Book Master Entry

Book Lending Entry

**STUDENT DETAILS:**

Student details should be obtained and to store in the table **TBL\_MST\_STUDENT**

Name

Register number

Roll Number

Email Id

Department

Class

Year

**BOOK MASTER LIST:-**

**Book List:-**

Book details should be obtained and list the details is stored in **TBL\_MST\_BOOK**

S.No

Book Name

Book Author Name

Book Publisher

ISBN (optional)

Total number of Books

Available Books

**BOOK LENDING ENTRY:-**

Book lending entry details should be obtained and to store in the table **TBL\_TRN\_BOOK\_LENDING**

S.No

Book Code

Book Name

Book Author Name

Student ID

Student Name

Issue Date

Due Date

Status

**POPUP NOTIFICATION:-**

After filling the above details the following popup page appears

Book Name

Book Author Name

Publisher year

Total number of books

Available Books

**USER DETAILS:-**

Admin details should be obtained and store the details in **TBL\_MST\_USERS**

Name

Staff ID

Student ID

Email ID

Password

Confirm password

**DATABASE DETAILS:-**

**TABLE: TBL\_MST\_STUDENT:-**

ID – int ()-Primary Key (Auto Increment)

Name – Varchar(100)

Register Number – Varchar (150)

Roll number – Varchar (50)

Email Id – Varchar (150)

Department – Varchar (100)

Class – Varchar (10)

Year – int()

Status - As Defined (1)

Created\_at - Timestamp - Current timestamp (System time)

**TABLE: TBL\_MST\_USERS**

ID – int ()-Primary Key (Auto Increment)

Name – Varchar (100)

Staff\_Code Varchar (100)

Student\_id – int [Foreign Key referring TBL\_MST\_STUDENT]

Email\_id – Varchar (50)

Password – Varchar (100)

Confirm password – Varchar (100)

Status – As defined (1)

Created\_at – Timestamp – Current timestamp (System time)

**TABLE: TBL\_MST\_BOOK**

ID – int () – Primary Key (Auto Increment)

Book\_name – Varchar (250)

Book\_author – Varchar (250)

Due Date – Date ()

Return Date – Date ()

ISBN (optional) - int ()

Total number of Books – int ()

Available Books – int ()

Status – As Defined (1)

Created\_at – Timestamp – Current timestamp (System time)

**TABLE: TBL\_TRN\_BOOK\_LENDING**

ID – int () – Primary Key (Auto Increment)

Book\_id – int () [Foreign Key referring TBL\_MST\_BOOK]

Student\_id – int () [Foreign Key referring TBL\_MST\_STUDENT]

Issue Date - Date

Due Date - Date

Status – As Defined (1)

Created\_at – Timestamp – Current timestamp (System time)

**Unit test cases:-**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **Login** | **Username/Password** | **Status** | **Result** |
| 1 | Go to: Login page enter correct details | Username:admin  Password:kgisl@123 | As Expected | Pass |
| 2 | Login page -> enter incorrect details | Username:admin  Password:12345 | Getting Notification Error | Fail |