

LIBRARY MANAGEMENT

22-11-2019

DONE BY :

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ACKNOWLEDGEMENT

We would like to express our special thanks of gratitude to our WEB PROGRAMING faculty - "Mr.Raghu" sir r for their umpteen support and guidance in completing the project.

OVERVIEW

PURPOSE: Library management is a platform which enables access to the library in a much easier and comfortable way to students and staff. It allows them to access basic functionalities of library like issue, return, renew books, from their PC, online.

LANGUAGES: The front end of this website is done using HTML, CSS, JavaScript and back-end is done using PHP. Xampp server is used to implement PHP.

DESIGN

I. Home Page :

On opening the website we come across home page . Inside the home page there are functionalities for login and register. If the student or staff is new to the site, He or she should register first by entering the necessary details. He or she should select whether he or she is a student or staff.

II. Student / Staff page :

When a student logs in, this page opens where there will be nav-bar floating towards the left. Here the user is given few options to select. These options include viewing registered details searching for new books to issue, place request for issuing new books and renewing books, view issued books. Also the user can contact the admin by recommending some books by which an admin can add books, view requests and currently issued books. Finally the user can access these functionalities in the Student/Staff page.

III. Admin Page :

This page enables admin to control functionalities like adding books, responding to requests, view each student/ staff's books issued.

DATABASE DESIGN

I. Tables Used :

// Contains the details of students/staff registered to the Library

```
CREATE TABLE register {  
    fname varchar 20,  
    lname varchar 20,  
    Id varchar 5      PRIMARY KEY,  
    Branch varchar 10,  
    Email varchar 20,  
    Password varchar 20  
};
```

// Contains the details of books in the Library

```
CREATE TABLE books{  
    Bid varchar 5      PRIMARY KEY,  
    Bname varchar 20,  
    Bauthor varchar 20,  
    Copies integer  
};
```

// Contains the details of books which are issued by the students in the Library

```
CREATE TABLE issue{  
    Sid varchar 20,  
    Bid varchar 20,  
    Issue_date date,  
    Last_date date,  
    PRIMARY KEY(sid,bid)  
};
```

// Contains the details of books recommended to the admin

```
CREATE TABLE recommend{  
    bname varchar 20,  
    bauthor varchar 20,  
};
```

// Contains the details of student/staff and the book requests he/she has made a request for issue

```
CREATE TABLE issue_request{  
    Sid varchar 10,  
    Bid varchar 10,  
    PRIMARY KEY(sid,bid)  
};
```

// Contains the details of student/staff and the book requests he/she has made a request for renewal

```
CREATE TABLE renew_request{  
    Sid varchar 10,  
    Bid varchar 10,  
    PRIMARY KEY(sid,bid)  
};
```

// Contains the details of student/staff and the book requests he/she has made a request for renewal


```
CREATE TABLE return_request{  
    Sid varchar 10,  
    Bid varchar 10,  
    PRIMARY KEY(sid,bid)  
};
```

//Contains the response of the admin for the issue request

```
CREATE TABLE response{  
    Sid varchar 10,  
    Bid varchar 10,  
    Admin_response 20,  
    PRIMARY KEY(sid,bid)  
};
```

//Contains the response of the admin for the return request

```
CREATE TABLE return_request{  
    Sid varchar 10,  
    Bid varchar 10,
```



```
Admin_response 20,  
PRIMARY KEY(sid,bid)    };
```

//Contains the response of the admin for the renew request

```
CREATE TABLE renew_request{  
    Sid varchar 10,  
    Bid varchar 10,  
    Admin_response 20,  
    PRIMARY KEY(sid,bid)  
};
```

ER DIAGRAM :

