A Project Report

On

"Library Management System"

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INTRODUCTION

A Library Management System is a software built to handle the primary housekeeping functions of a library. Libraries rely on library management systems to manage asset collections as well as relationships with their members. Library management systems help libraries keep track of the books and their checkouts, as well as members' subscriptions and profiles. Library management systems also involve maintaining the database for entering new books and recording books that have been borrowed with their respective due dates.

This project mainly explains the various actions related to admin and book details. This project shows some ease in adding, updating and deleting the book details.

Project Includes:

- Admin Module

- Book Module

I have developed this application in **java, jsp, servlet and mysql**. It is a web based application so I have used HTML and CSS too. The main feature of project is to manage the records of book details. In our project admin has right to do all operation regarding book details.

In Admin module, Admin can register and login to website. And also handle all the things like if new books comes in the library then admin can add books in the record. If there is changes in book details admin can update the records. If some books issued by students then admin can delete that books from the record.
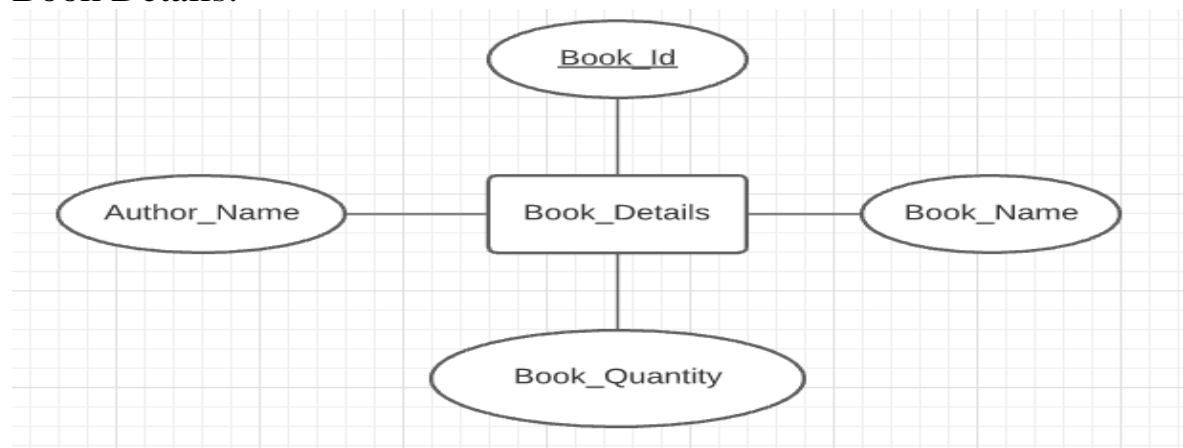
If admin wants to check the books are there or are not in the library then admin can login to website and click on the available book then admin will be able to see all the books present in the library.

Software Requirements
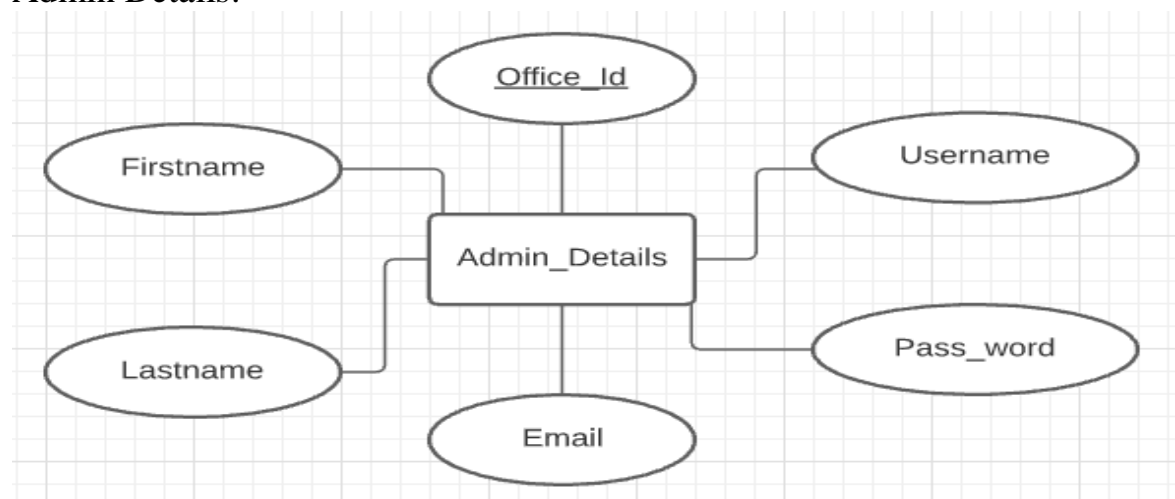
- Front end :   Java/J2EE technologies (Servlet, JSP), HTML, CSS, JDBC
- Back end :   MySQL
- Middleware/Server :   Apache Tomcat v9.0
- IDE :   Eclipse IDE for Java EE Developers
- Browser :   Best result on Google Chrome
- Operating System :   Window 10

ERD (Entity Relationship Diagram)

Book Details:

Admin Details:

DATABASE

create database SampleDB;

use SampleDB;

Admin table :
```
create table registrationad
(
        Office_Id int(11) Not null,
        Firstname varchar(45)  not null,
        Lastname varchar(45)  not null,
        Email varchar(45)  not null,
        Username varchar(45)  not null,
        Pass_word varchar(45)  not null,
         primary key(Office_Id)
);

 select * from registrationad;
```

Book details table :
```
create table addbook13
(
        Book_Id int(15) not null,
        Bookname varchar(45)  not null,
        Authorname varchar(45)  not null,
        Book_Quantity int(10) Not null,
         primary key(Book_Id)
);

 select * from addbook13;
```
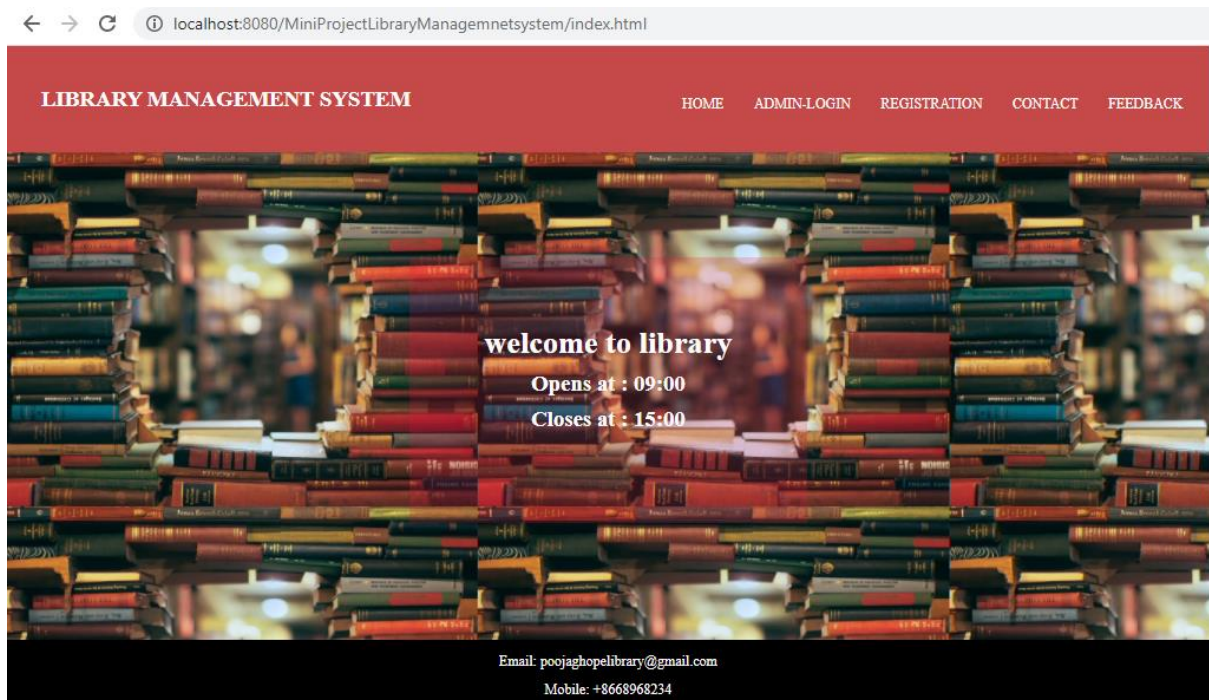
SCREENSHOTS

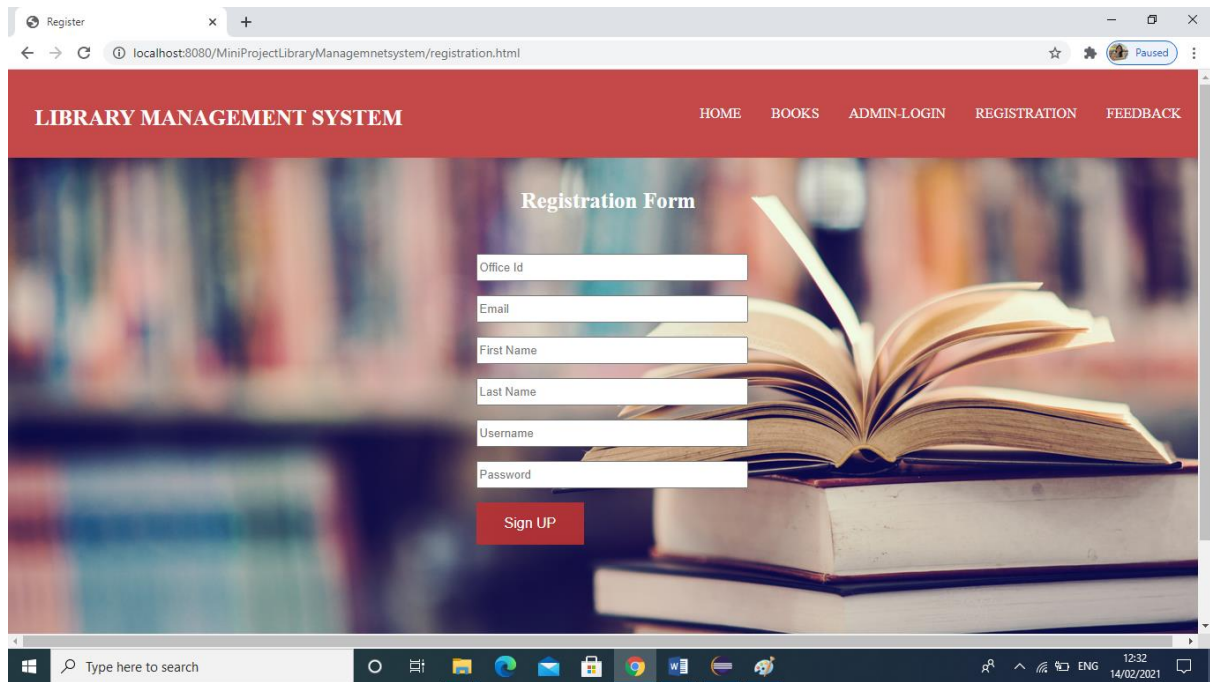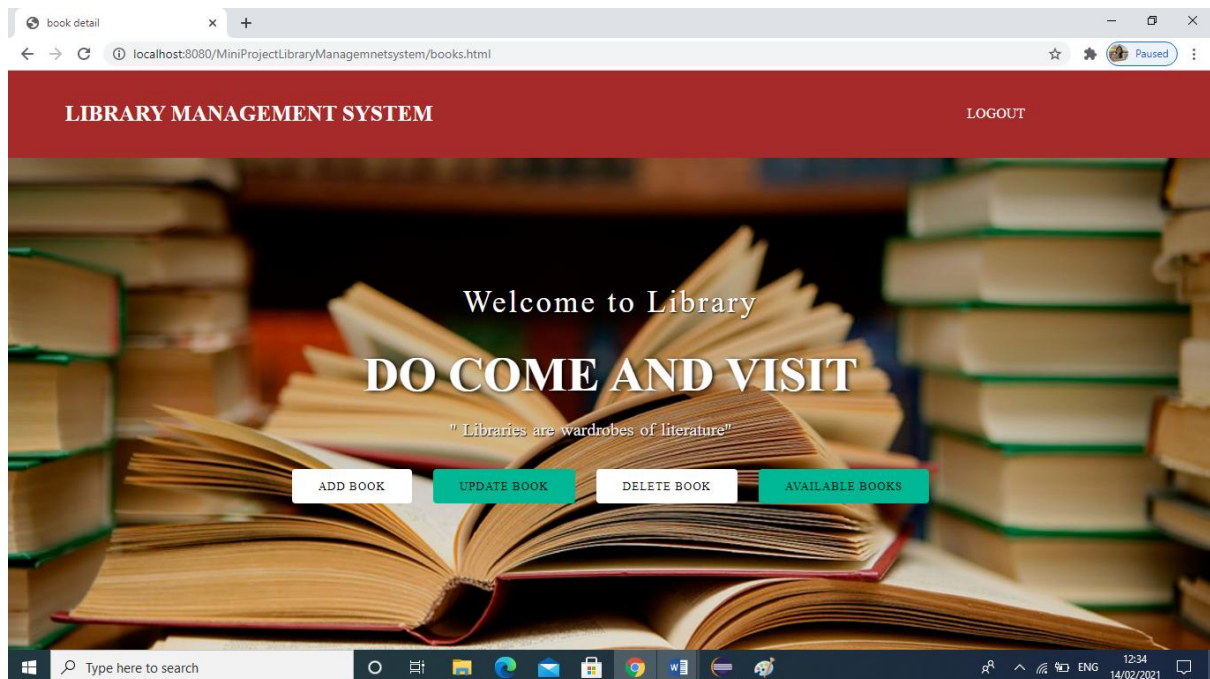**Fig 1.** Home Page

Fig 2. Admin Login

Fig 3. Admin Registration
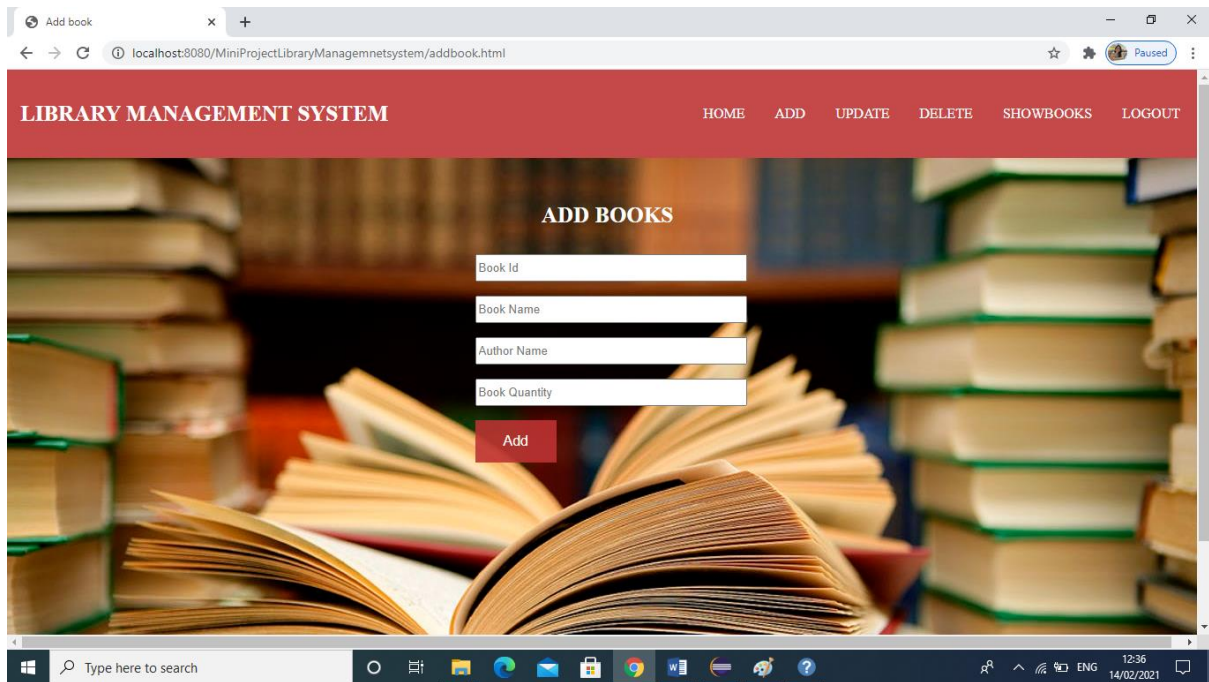

Fig 4. After Login
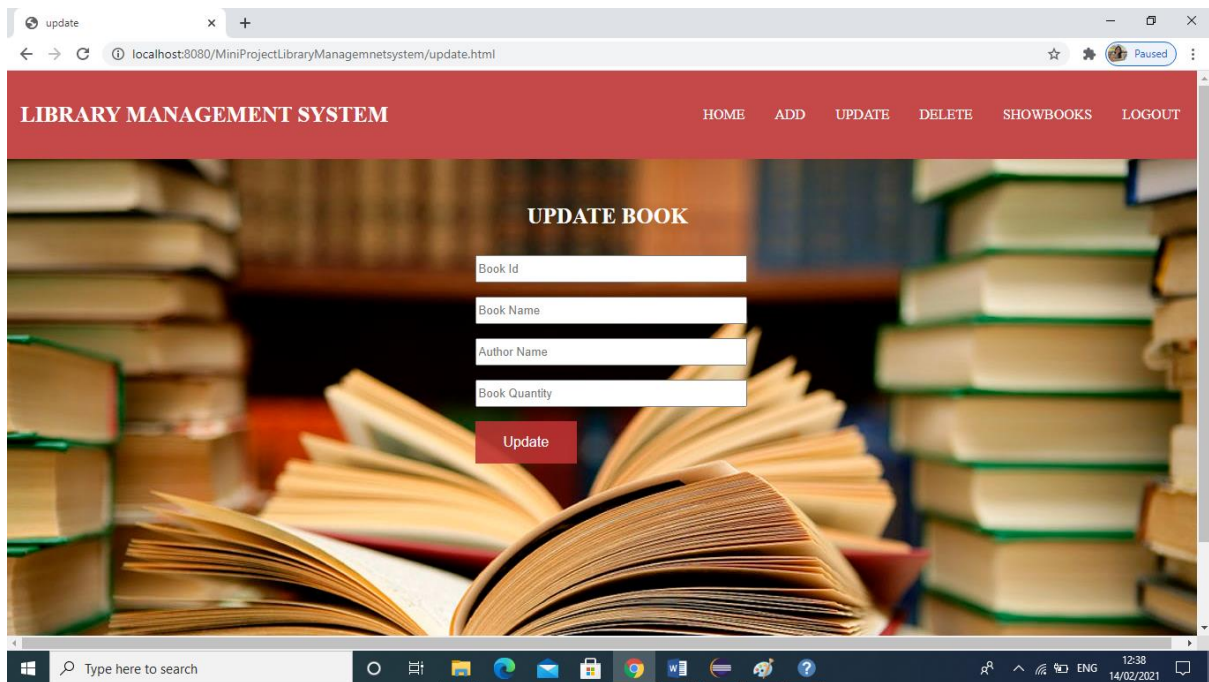
Fig 5. Add Book details
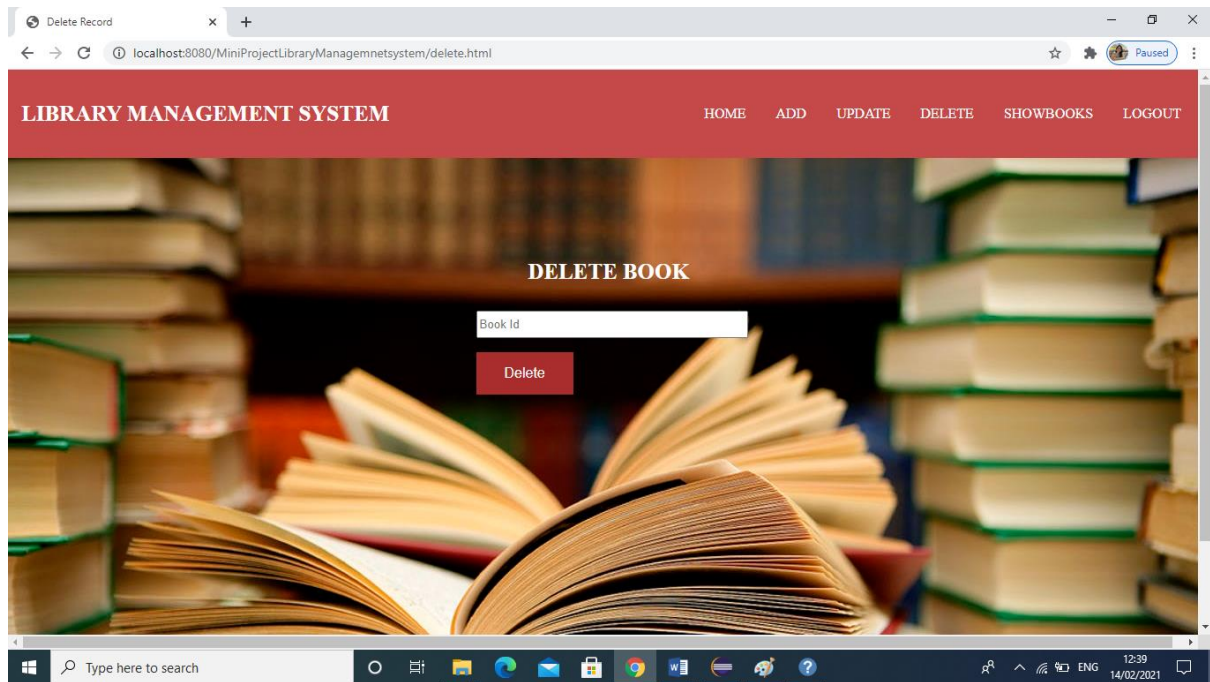

Fig 6. Update Book details

Fig 7. Delete Book

Fig 8. Show Book Records

CONCLUSION:

The purpose of library management system is to help librarian to know about book details availability. So that it will help to save time.