

# EduBridge



A Project

Report On

## **Library Management System**

By

**Aparna Iti**

**B.E**

**Batch: 2021– 5880**

**Center: Pune**

Under the Guidance of,

**Nisha Jaiswal**

**Technical Trainer**

**EduBridge**

(School of coding)

## **Introduction:**

Our project explains about the Online Library Management System. This project mainly explains the various actions related to online library management system. Online library management is an automated library system that handles various functions of the library. It provides complete solution to the library management system. This software helps in different ways by providing students the facility to learn, gather resources, promote group learning and improve knowledge and skills.

### **Features of Online Library Management System**

- Integration of all records of students
- Manage the records systematically
- It can track any information online
- Easy to maintain records
- It leads to fast book entry

### **Our Project Includes Modules:-**

- Admin Module
- Librarian Module
- Student Module

I have developed this Application in **Java, JSP, Servlets, Hibernate and MySQL**. It's a web-based projects so I have used **HTML, CSS, JavaScript and Bootstrap also**.

Library Management System helps the students in better learning by providing quick access to the library system. You can access this website from anywhere and everywhere.

In Admin-Login module, admin can add, view and delete the librarian and student. He can also view the total number of books present in the website. And students and librarian details also. Admin can only see the admin page.

In Librarian-Login module, librarian can add and delete the books. He can also view total number of books issued and returned by the students in the website.

In Student-Login module, student can access the website, issue and return the books present in the library. New students can register and login into the website.

## **Software Requirements:**

**Front end:** Java/J2EE technologies (Servlet, JSP), HTML, CSS, JavaScript, Bootstrap, Hibernate.

**Back end:** MySQL workbench 8.0.23CE.

**Middleware/Server:** Apache Tomcat v8.5. IDE: Eclipse IDE for Java EE Developers

**Browser:** Best result on Google Chrome

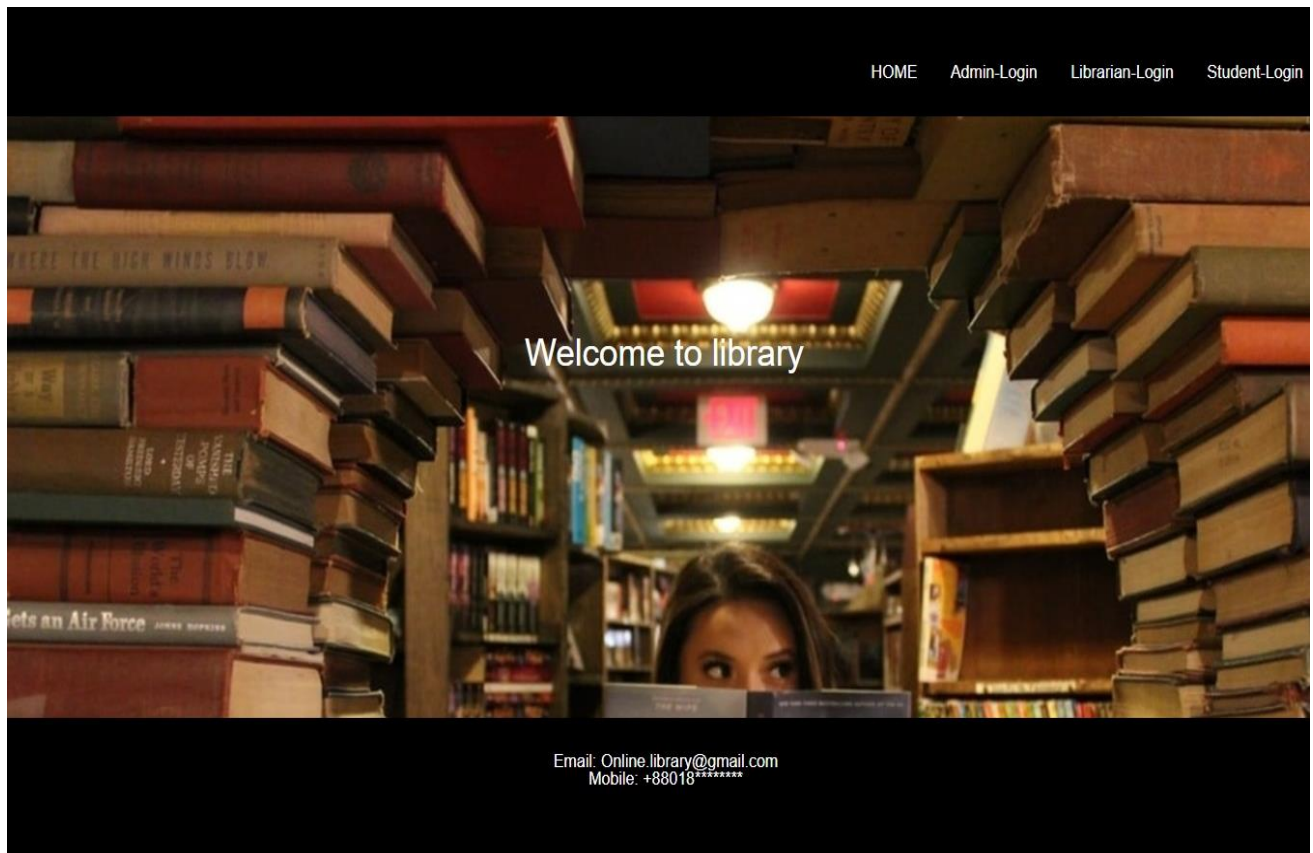
**Operating System:** Window 10

## **Data Dictionary:**

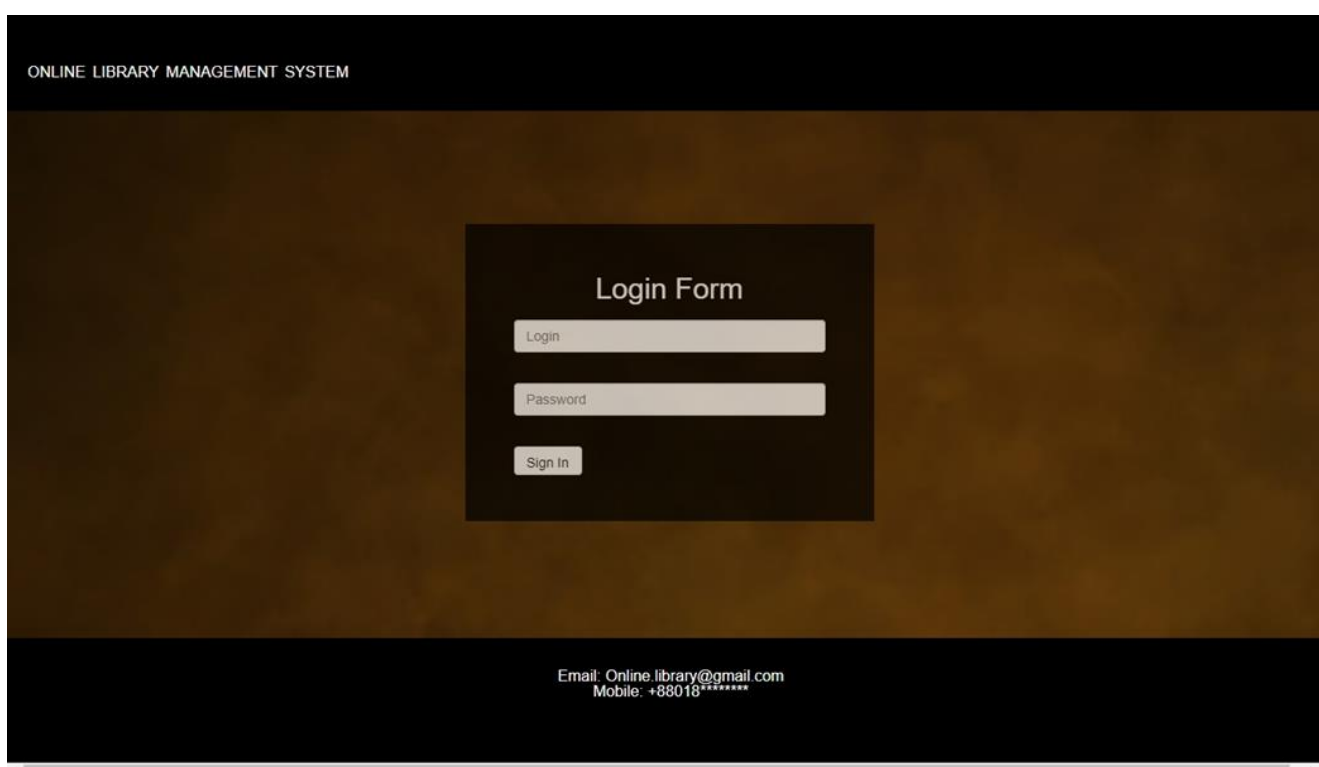
- Create Database LibraryDatabase.
- Hibernate: create table Admin (AdId integer primary key auto\_increment, Adname varchar(100) not null, Ademail varchar(100), Adpassword varchar(100) not null).
- Hibernate: create table Librarian (libid integer primary key auto\_increment, libname varchar(100) not null, libemail varchar(100) not null, libmail varchar(100) not null, libpassword varchar(100) not null, libcontact varchar(100) not null).
- Hibernate: create table Student (studentid integer primary key auto\_increment, studenrollment varchar(100) not null, studname varchar(100) not null, studemail varchar(100) not null, studpassword varchar(100) not null, studcontact varchar(100) not null).

## Screenshots:-

### Home Page:

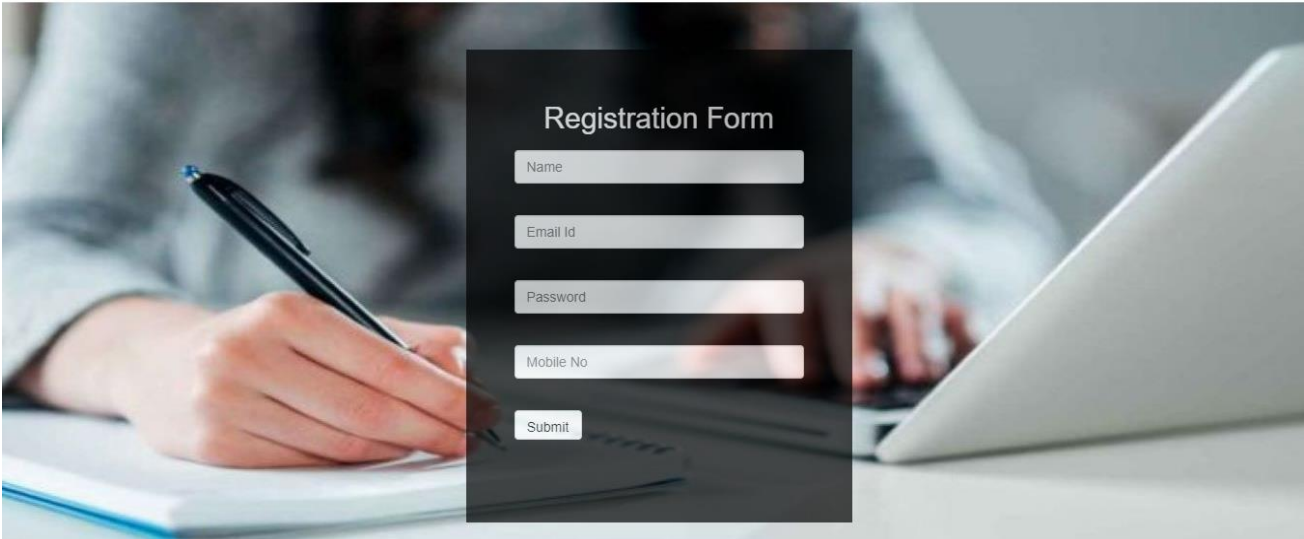


### Login Page:



## Register Page:

ONLINE LIBRARY MANAGEMENT SYSTEM



**Registration Form**

Name

Email Id

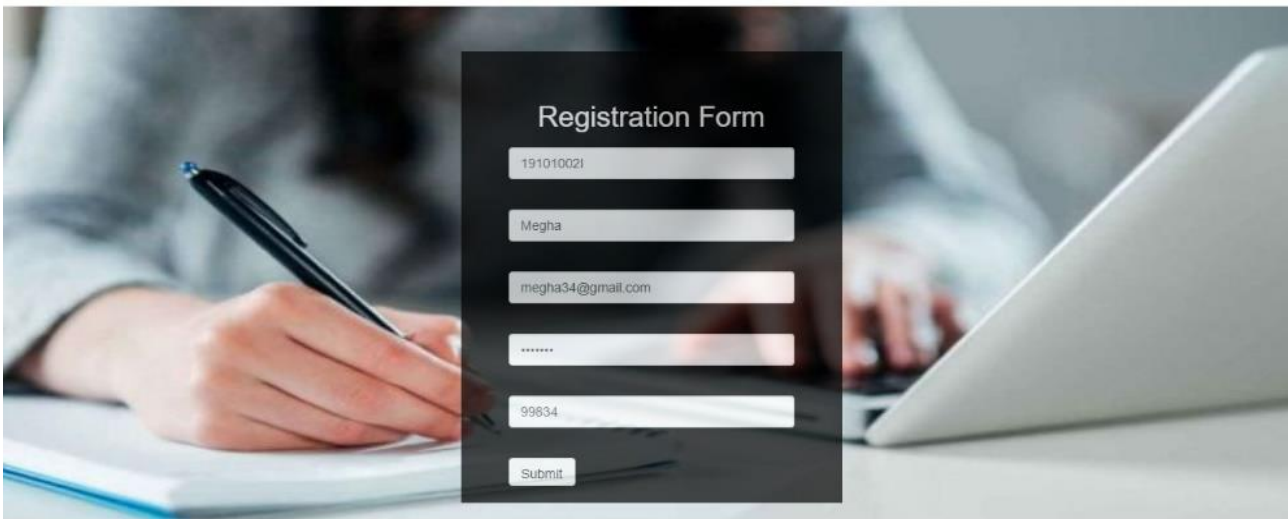
Password

Mobile No

Email: Online.library@gmail.com  
Mobile: +88018\*\*\*\*\*

## Registering with data:

ONLINE LIBRARY MANAGEMENT SYSTEM



**Registration Form**

191010021

Megha

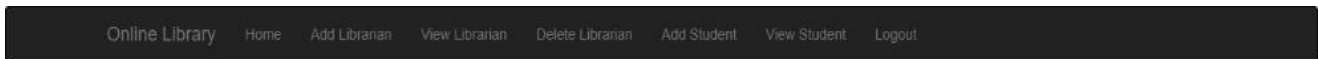
megha34@gmail.com

\*\*\*\*\*

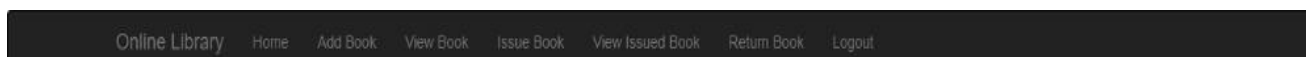
99834

Email: Online.library@gmail.com  
Mobile: +88018\*\*\*\*\*

## Admin Home Page:

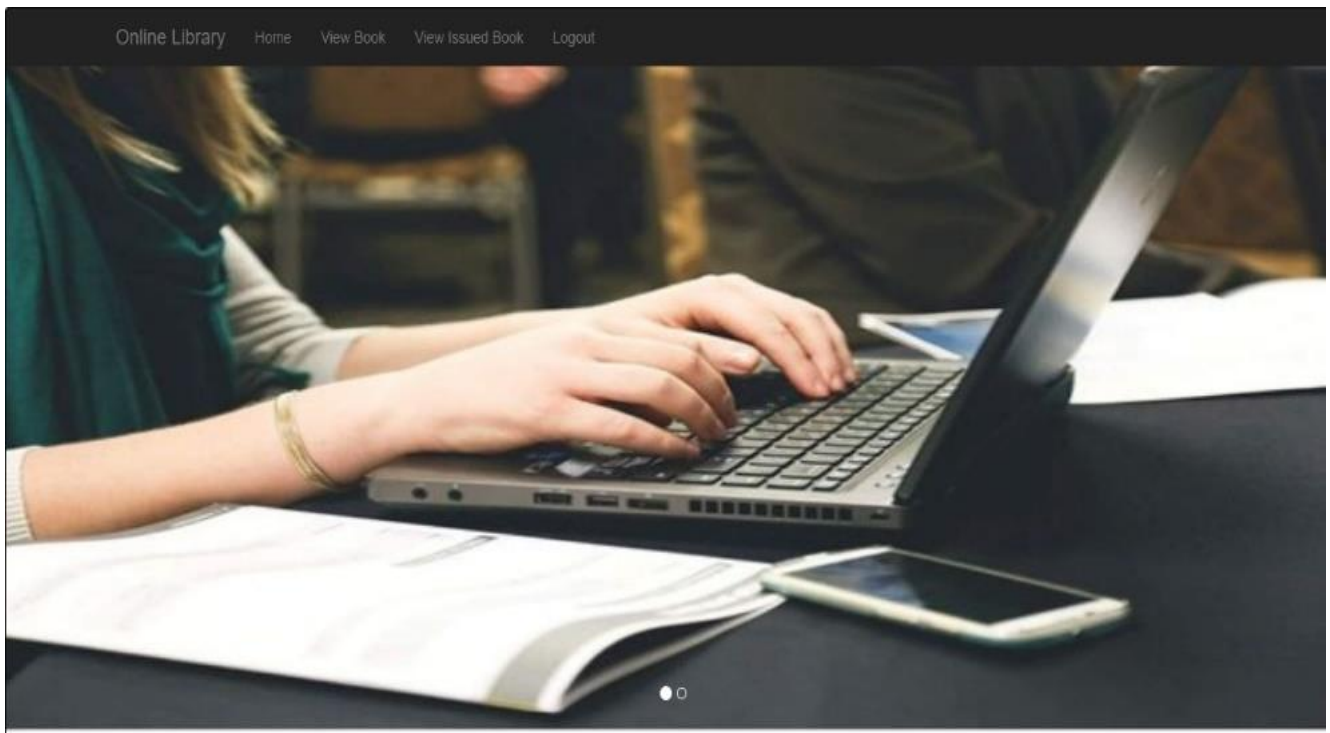


## Librarian Home Page:





## Student Home Page:



## Add Books:

ONLINE LIBRARY MANAGEMENT SYSTEM

### Add Book

Email: [Online.library@gmail.com](mailto:Online.library@gmail.com)  
Mobile: +88018\*\*\*\*\*

## Issue Book :

ONLINE LIBRARY MANAGEMENT SYSTEM

Issue Book

Book Id

Student Id

dd-mm-yyyy

Issue Book

Email: Online.library@gmail.com  
Mobile: +88018\*\*\*\*\*

## Return Book :

ONLINE LIBRARY MANAGEMENT SYSTEM

Return Book

Book Id

Student Id

dd-mm-yyyy

Return Book

Email: Online.library@gmail.com  
Mobile: +88018\*\*\*\*\*



## View Books :

### List Of Books

| Book Id | call Number | Name            | Author          | Publisher             | Copies | Issued |
|---------|-------------|-----------------|-----------------|-----------------------|--------|--------|
| 1       | JC71P35     | Wings of fire   | Abdul Kalam     | Universities Press    | 8      | 0      |
| 2       | LC3501      | The Jungle Book | Rudyard Kipling | Macmillan             | 5      | 1      |
| 3       | QL7379      | HarryPotter     | J.K.Rowling     | Bloomsbury Publishing | 6      | 0      |
| 4       | G25001      | The Legends     | Marie Lu        | Penguin Books         | 3      | 0      |
| 5       | GC456       | The Secret      | Rhonda Byrne    | Universities Press    | 5      | 0      |
| 6       | KP25001     | One Indian Girl | Chetan Bhagat   | Roopa & Company       | 8      | 0      |

## View Issued Books :

### Issued Books

| Book Id | Student Id | Issue Date | Return Status |
|---------|------------|------------|---------------|
| 5       | 5          | 2021-12-19 | No            |
| 4       | 3          | 2021-12-08 | Yes           |
| 4       | 5          | 2021-12-19 | No            |
| 2       | 3          | 2021-12-08 | No            |
| 2       | 3          | 2021-12-08 | No            |

## View Librarian :

List Of Librarian

| Id | Name       | Email               | Password | Contact | Edit                 |
|----|------------|---------------------|----------|---------|----------------------|
| 1  | Librarian2 | librarian@gmail.com | defg     | 77756   | <a href="#">Edit</a> |
| 3  | Keerti     | keerti@gmail.com    | 89keert  | 78965   | <a href="#">Edit</a> |
| 5  | Rakesh     | rakesh@gmail.com    | rak99    | 67798   | <a href="#">Edit</a> |
| 6  | Deepika    | deepika3@gmail.com  | deep98   | 66785   | <a href="#">Edit</a> |

## View Student :

List Of Student

| Student Id | Enrollment Number | Name     | Email                  | Password | Contact | Edit                 |
|------------|-------------------|----------|------------------------|----------|---------|----------------------|
| 1          | 19101001A         | Priyanka | priya21@gmail.com      | xyz      | 89640   | <a href="#">Edit</a> |
| 2          | 19101002B         | aparna   | aparnaiti004@gmail.com | 22aparna | 66678   | <a href="#">Edit</a> |
| 3          | 19101003C         | Asha     | asha@3gmail.com        | ash45    | 99567   | <a href="#">Edit</a> |
| 4          | 19101004D         | Suma     | suma@gmail.com         | suma@    | 88976   | <a href="#">Edit</a> |
| 5          | 19101005E         | Nikita   | niki@67gmail.com       | nik45    | 99564   | <a href="#">Edit</a> |
| 6          | 19101007H         | Chinmay  | chinnu@gmail.com       | chin@34  | 78896   | <a href="#">Edit</a> |
| 7          | 19101007H         | meena    | meena@gmail.com        | meena34  | 67865   | <a href="#">Edit</a> |
| 8          | 19101005L         | @reeta   | reeta004@gmail.com     | demo     | 99875   | <a href="#">Edit</a> |
| 9          | 19101006I         | @sindhu  | sindhu@gmail.com       | sindu5   | 66784   | <a href="#">Edit</a> |
| 10         | 19101008R         | Riya     | riya@gmail.com         | root     | 99567   | <a href="#">Edit</a> |
| 11         | 19101008R         | Riya     | riya@gmail.com         | root     | 99567   | <a href="#">Edit</a> |
| 12         | 19101002I         | Megha    | megha34@gmail.com      | megha34  | 99834   | <a href="#">Edit</a> |

## Data Added in Student Database Successfully:

The screenshot shows the MySQL Workbench interface with the 'Student' table selected. The table contains 10 rows of data. The SQL query window shows the following queries:

```
show databases;
use LibraryDatabase;
desc Student;
select * from Student;
```

| studentid | studentrollment | studname | studemail            | studpassword | studcontact |
|-----------|-----------------|----------|----------------------|--------------|-------------|
| 1         | 19101001A       | Priyanka | priya21@gmail.com    | xyz          | 89640       |
| 2         | 19101002B       | aparna   | aparnai004@gmail.com | 22aparna     | 66678       |
| 3         | 19101003C       | Asha     | asha@3gmail.com      | ash45        | 99567       |
| 4         | 19101004D       | Suma     | suma@gmail.com       | suma@        | 88976       |
| 5         | 19101005E       | Nikita   | nikit@67gmail.com    | nik45        | 99564       |
| 6         | 19101007H       | Chinnu   | chinnu@gmail.com     | chin@34      | 78896       |
| 7         | 19101007H       | meena    | meena@gmail.com      | meena34      | 67865       |
| 8         | 19101005L       | @reeta   | reeta004@gmail.com   | demo         | 99875       |
| 9         | 19101006I       | @sindhu  | sindhu@gmail.com     | sindu5       | 66784       |
| 10        | 19101008D       | Riya     | riya@gmail.com       | root         | 99567       |

The output window shows the following messages:

```
2 20:30:01 select * from Student LIMIT 0, 1000 12 row(s) returned 0.000 sec / 0.000 sec
3 20:39:26 select * from Book LIMIT 0, 1000 3 row(s) returned 0.000 sec / 0.000 sec
4 20:44:14 select * from Book LIMIT 0, 1000 6 row(s) returned 0.000 sec / 0.000 sec
5 20:46:19 select * from Librarian LIMIT 0, 1000 4 row(s) returned 0.000 sec / 0.000 sec
6 21:37:30 select * from Student LIMIT 0, 1000 12 row(s) returned 0.000 sec / 0.000 sec
```

## Data Added in Librarian Database Successfully

The screenshot shows the MySQL Workbench interface with the 'Librarian' table selected. The table contains 6 rows of data. The SQL query window shows the following queries:

```
show databases;
use LibraryDatabase;
desc Librarian;
select * from Librarian;
```

| libid | libname    | libemail            | libpassword | libcontact |
|-------|------------|---------------------|-------------|------------|
| 1     | Librarian2 | librarian@gmail.com | defg        | 77756      |
| 3     | Keerti     | keerti@gmail.com    | 89keert     | 78965      |
| 5     | Rakesh     | rakesh@gmail.com    | rak99       | 67798      |
| 6     | Deepika    | deepika3@gmail.com  | deep98      | 66785      |
| 7     | Keerti     | keerti@gmail.com    | 89keert     | 78965      |

The output window shows the following messages:

```
1 20:29:51 use LibraryDatabase 0 row(s) affected 0.000 sec
2 20:30:01 select * from Student LIMIT 0, 1000 12 row(s) returned 0.000 sec / 0.000 sec
3 20:39:26 select * from Book LIMIT 0, 1000 3 row(s) returned 0.000 sec / 0.000 sec
4 20:44:14 select * from Book LIMIT 0, 1000 6 row(s) returned 0.000 sec / 0.000 sec
5 20:46:19 select * from Librarian LIMIT 0, 1000 4 row(s) returned 0.000 sec / 0.000 sec
```

## About Us:

### ONLINE LIBRARY MANAGEMENT SYSTEM



#### About Online Library Management System

Library Management System is a software that is designed to manage all the functions of the library. It helps librarian to maintain the database of a new books and the books that are borrowed by the students along with their due dates. This system completely automates all your library's activities. The best way to maintain, organise and handle countless books systematically is to implement a library management system software. You can find books in an instant, issue/reissue books quickly, and manage all the data efficiently and orderly using this system. The purpose of a library management system is to provide instant and accurate data regarding any type of book, thereby saving a lot of time and effort.

Email: [Online.library@gmail.com](mailto:Online.library@gmail.com)  
Mobile: +88018\*\*\*\*\*

# Thank you