Library Management System

Introductions

Library Management System is a desktop application which is used by librarian to manage the library using a computerized system where he/she can record various transactions like issue of books, return of books, addition of new books, addition of new students etc. Books and student maintenance modules are also included in this system which would keep track of the students using the library and also a detailed description about the books a library contains. With this computerized system there will be no loss of book record or member record which generally happens when a non-computerized system is used.

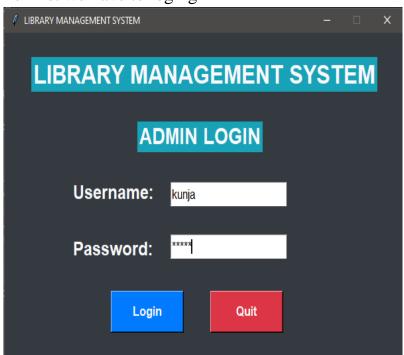
In addition, report module is also included in Library Management System. If user's position is admin, the user is able to generate different kinds of reports like search of students registered, search of books, issue and return reports. All these modules are able to help librarian to manage the library with more convenience and in a more efficient way as compared to library systems which are not computerized.

Objectives

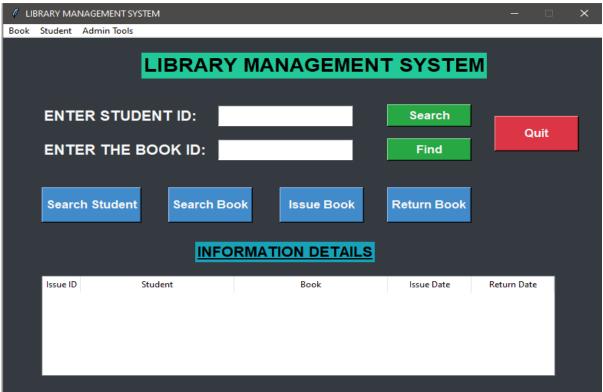
- Improvement in control and performance, system is developed to cope up with the current issues and problems of library. The system can add user, validate user and is also bug free.
- Save cost after computerized system is implemented less human force will be required to maintain the library thus reducing the overall cost.
- Save time librarian is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time.

Functional Requirements

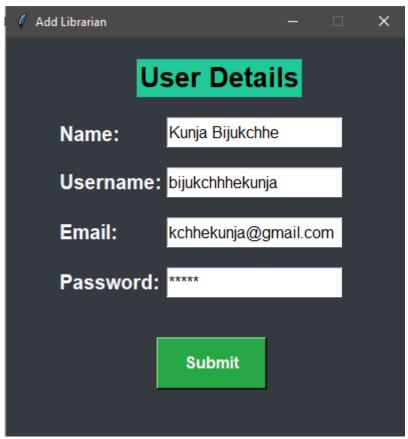
• Admin Login: First we have to loging



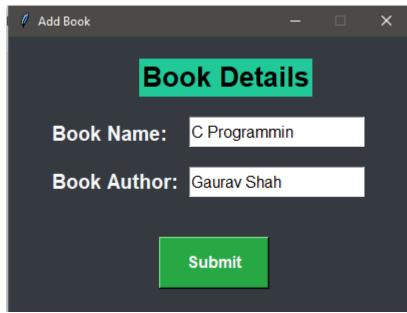
Starting Page



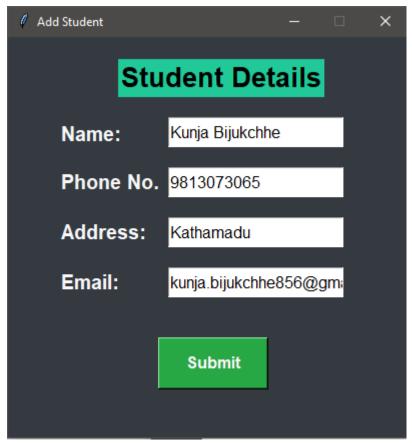
• Register New Librarian: In menu bar click on admin tool to add user



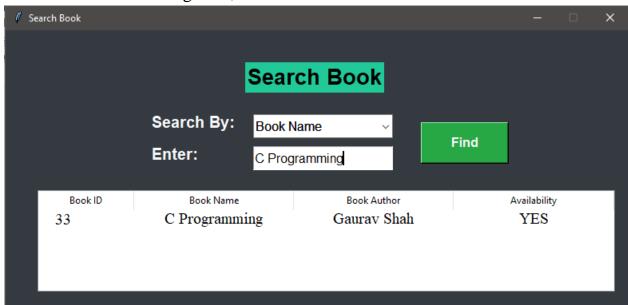
• Register New Book: In menu bar click on book to add book



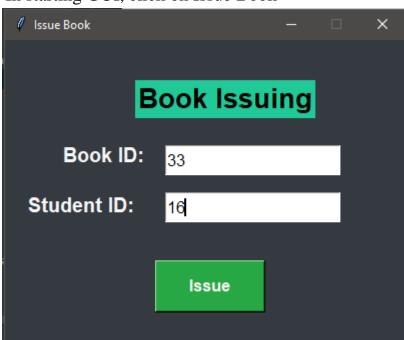
• Register New Student: In menu bar click on Student to add student



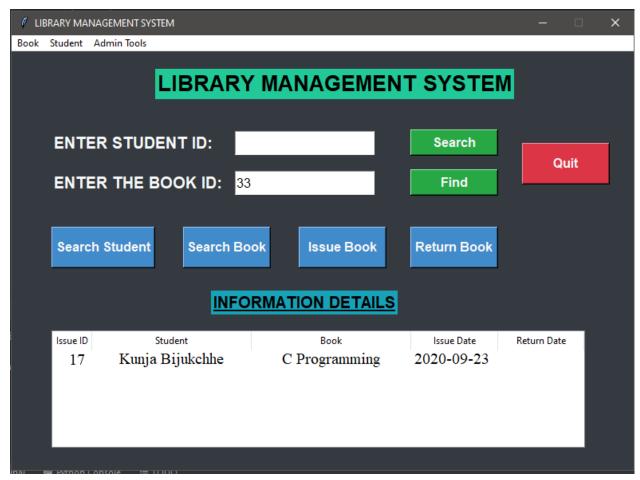
• Search Book: In starting GUI, click on Search Book



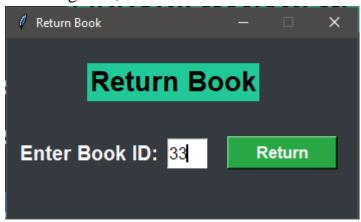
• Issue Book: In starting GUI, click on Issue Book



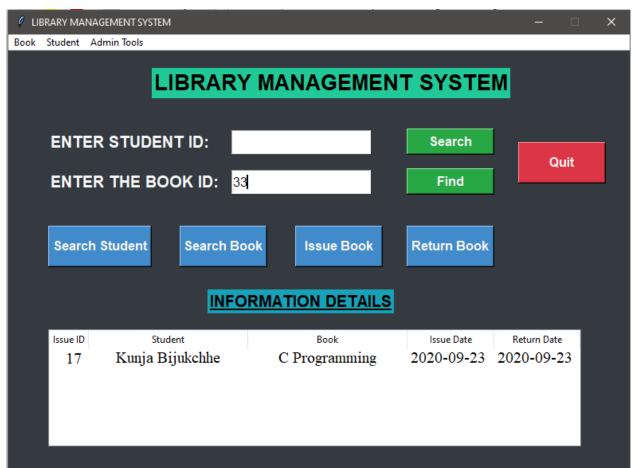
This show book has been issued on 2020-09-23



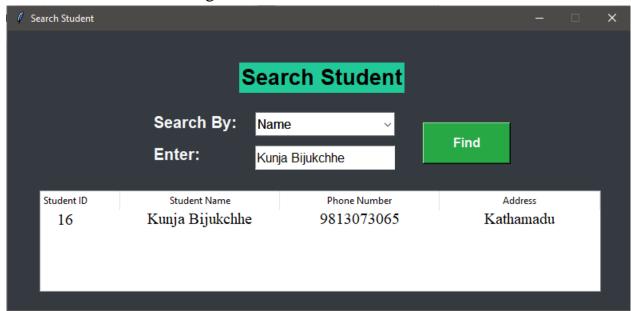
• Return Book: In starting GUI, click on Return Book



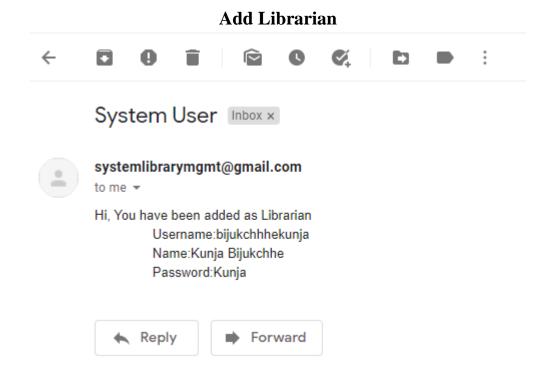
This show book has been return on 2020-09-23



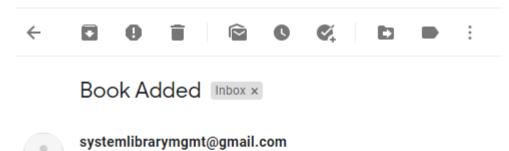
• Search Student: In starting GUI, click on Search Student

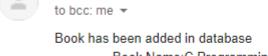


• **Send Email:** In all menu there is add functionality, while add the book, student librarian there is submit button which send mail given address



Add Book





Book Name:C Programming
Book Author:Gaurav Shah



Add Student



systemlibrarymgmt@gmail.com

to me 🔻

Hi, You have been added as Student Student Name:Kunja Bijukchhe Phone No.9813073065 Address:Kathamadu



Data Dictionary

For Admin:

Field	+ Type +	Null	Key	Default	Extra	
id user name password email	int varchar(30) text text varchar(255)	NO NO NO			auto_increment 	

For Book:

Field	+ Туре +	+ Null +	Key	Default	Extra	
author	int varchar(300) varchar(300) varchar(30)	NO NO		NULL NULL NULL	auto_increment	

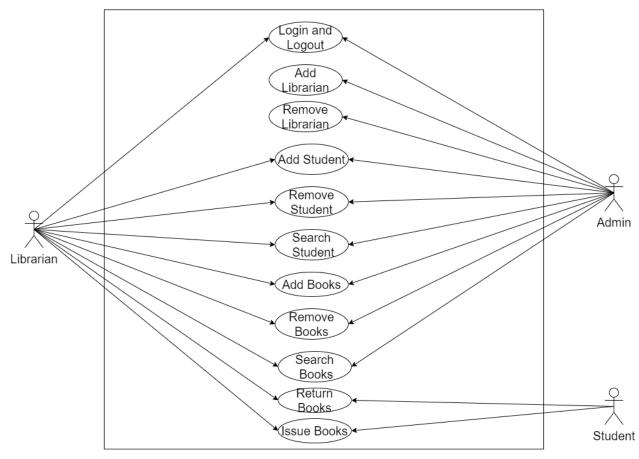
For Issue Book:

Field	Туре	Null	Key	Default	Extra
stud_id issue_date	int	NO NO NO		NULL	auto_increment

For Student:

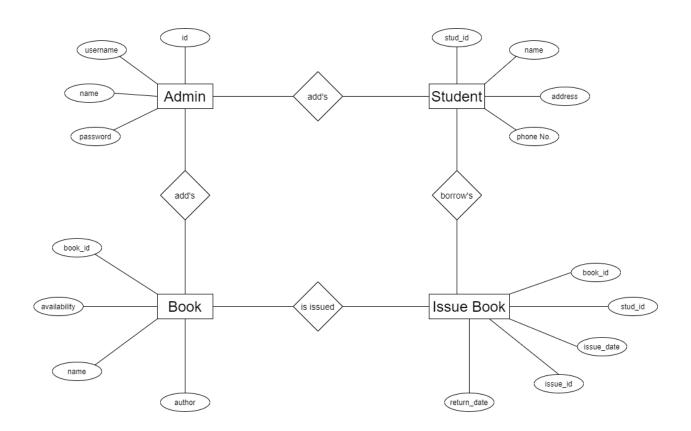
Field	+ Type +	Null	Key	Default	Extra	
stud_id name phone_number address email	int varchar(300) varchar(30) text varchar(255)	NO NO	PRI 	NULL NULL NULL NULL	auto_increment 	

Use Case Diagram



Library Management System

ER-Diagram



Conclusion

This desktop application of library management system which will benefit the students as well as librarian. It makes entire process computerized where librarian can search books, generate reports and do book transactions.