Canadian Institute of Technology

Faculty of Engineering

Software Engineering Department

Library Management System

A project submitted in partial fulfillment of the requirements for the degree of Bachelor Studies in Computer Engineering and IT

by

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This is to declare that the project entitled "Library Management System" is an original work done by the undersigned, in partial fulfillment of the requirements for the degree "Bachelor of Computer Engineering and IT"

All the analysis, design, and system development have been accomplished by the undersigned. Moreover, this project has not been submitted to any other college or university.

ABSTRACT

This project aimed to give a solution to the problems that libraries have nowadays with their book organization. My program helps them with adding new books, new members and for them to complete everything a library card does but online and in a more effective way.

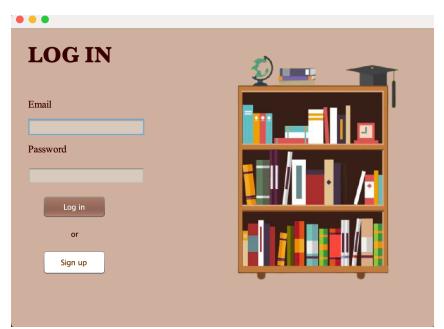
The methods used for the creation of this program are functions learned at this particular course, different websites, and information from books.

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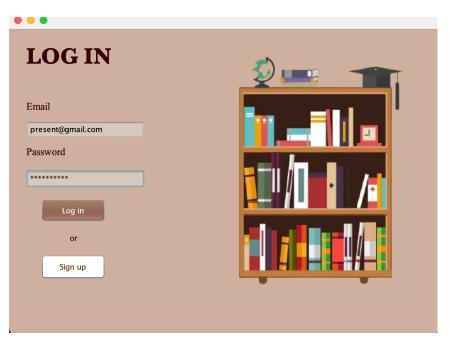
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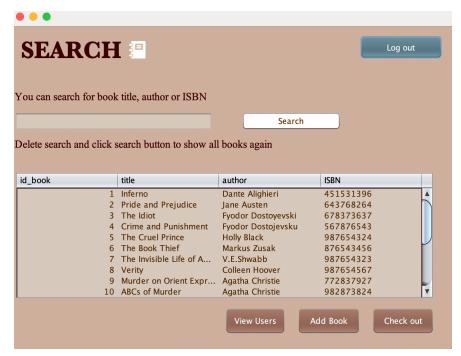
Table 1: data coming from the applicationError! Bookmark not defined.



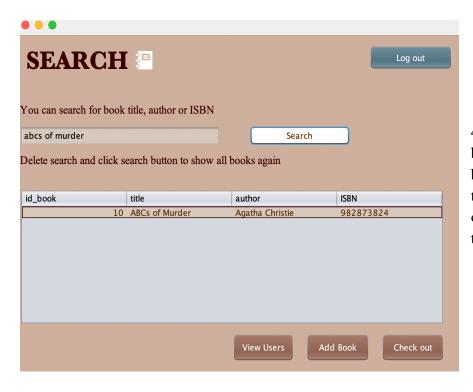
1. The log-in page where all registered users can enter the system.



2. Login with the right credentials.



3. The Search Page in which you can search a book by the author, title, or its ISBN.



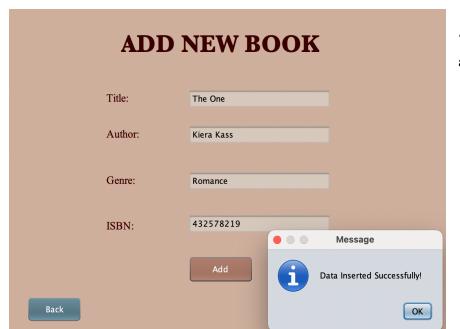
4. Here is a search by the title of the book and the book that is registered is on the table below the search bar.



5. By clicking on "View Users" on the Search Page, we end up on this page to see all the registered users.

ADD NEW BOOK			
Title:			
Author:			
Genre:			
ISBN:			
	Add		
Back			

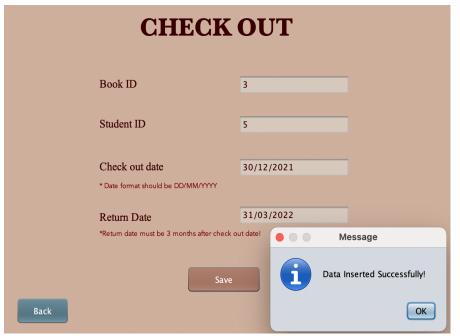
6. By clicking on the "Add Book" button we see this page which allows us to add a new book to the library.



7. New Book added.

CHECK OUT		
Book ID		
Student ID		
Check out date * Date format should be DD/MM/YYYY		
Return Date *Return date must be 3 months after check o Save	out date!	

8. This window appears when we click the "Check out "button on the search page and this page, we can check out a book using our ID which we find on the View Users page and the Book ID in the Search Page.



9. Book Check out



10. Register Page if we are not signed up.

1. Introduction

This project is called a Library Management System and it is software that gives ease to both the librarian and the library member.

Problems addressed are book organization by racks, genre, author, and title; user registration by name, email, password, and their check-out date as long as the return date of the book purchased.

2. Objective

The reason why I chose this topic is that this is a place where this program is most needed with all the mess and organization it has to go through. With this simple way of achieving it, the arrangement of books and users will be much simpler and easily accessible.

3. Functionalities

- It keeps track of the information registered about books, users, and check-out dates.
- Shows information about the above.
- Registers new users and logs in the previous ones.
- Search books according to their title, author, and ISBN.
- Checks out books.

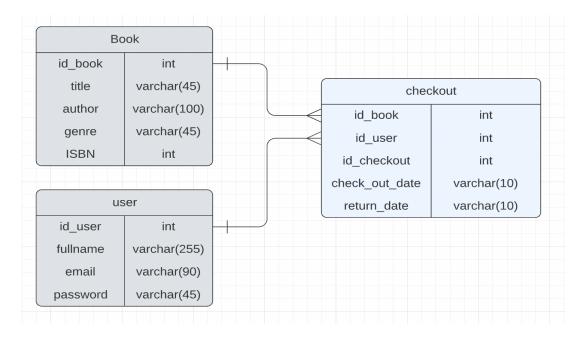
4. Software Requirements

Name of component	Specification
Operating system	Any operating system
Language	Java 2 runtime environment
Database	MySQL Server
Browser	Any browsers
Software development kit	Java JDK 1.7 or above
Scripting language enable	JSP
Database JDBC drive	MySQL Workbench/ Jconnector

5. Background

5.1 UML Diagrams (mandatory for the second-year student/optional for first-year students)

Figure 1: UML Class Diagram showing the relation between databases



6. Conclusion

This Java Application provides an application that will benefit all users and administrators of the library. It makes the entire process easier and more organized because of the user-friendly structure and all the solutions to every issue they may have related to book and user registration.

References

[1] BTech. (20020). [Online Video]. Retrieved from https://www.youtube.com/watch?v=sLs-2N5mAow&t=6870s