**COMPUTER PROGRAMMING LAB**

**SEMESTER END PROJECT**

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Sophia Khayyam

01-134251-086

1 -A, BSCS

PROFESSOR: Sir Mohsin Javaid Butt

Computer science department

Bahria university, Islamabad

**Course Title:** Computer Programming  
**Faculty Name:** Mohsin Javaid Butt  
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**Deadline:** 25 May 2024  
**Group Members:** Two (This project was done individually)

**PROJECT:**

**INTRODUCTION:**

This project is about a simple library management system that also provide users with a mini book account. The programs provide’s links to download the books as well. This program is written in C++. It allows users to search and delete from a variety of books and through their book account can further enter, update, read and delete any additional books related information and the links to their pdf’s. All of this is stored in a text file.

* REQUIREMENT for SETTING UP:
* A C++ compiler.
* An IDE like Visual Studio code or Visual studio, A text editor will also suffice.
* RUNNING the PROGRAM
  + Create a source file with the name library.cpp (or whatever you prefer)
  + Paste the code provided in the text file into the .cpp file.
  + Compile and run the code.

**HOW THE PRROGRAM WORKS:**

1. It will greet and then ask you to choose between three genres(as displayed).
2. Enter the number of the genre (1. For classics/children, 2. for horror/thriller and 3 for romance/YA fantasy).
3. Depending on your choice a list of book titles will appear Infront of you.
4. Enter the number of the book of your choosing.
5. A link that lets you download the pdf will appear. CTRL +click on it and it will lead you to the website where the ready-to-download pdf is waiting for you.
6. Now the program will ask you to choose whether you will like to delete any of the books from any genre. Type yes or no. If yes enter the genre number and then the book number (the list of the genre of your choosing will be displayed). The updated booklist will be displayed.
7. Then you will be asked whether or not you will like to start your own book account. Type Y or N to continue. If you enter N the program will end.
8. If you enter Y you will be greeted to your new account,
9. Enter the book, author and genre name along with the link. This info will be saved to a text file called BOOK ACCOUNT.
10. You will be asked if you will like to read your account, as in view the content you enter. Enter Y or N. Incase of N you will be asked about the next feature. Incase of Y you will be shown the data you have entered and then ask you about the next feature.
11. The next feature is the update one, if you enter Y (agreeing to update your account), you will be asked to enter the book, author and genre name along with the name again. This information will be saved to the same file, only the updated information will start after the previous content entered. You will then be introduced to the next feature.
12. If you have entered N, you will directly be introduced to the next feature, which is the delete one, here you will be asked whether or not you will like to delete the book account file. If you enter Y the text file will be deleted and the program will end. If you enter N the file will not be deleted and then the program will end.
13. And that’s it!! Hope you enjoyed the application