**AWT Assignment Part2**

**Listing Interfaces and Process Used**

I am using WCF service for the coding part.

In the library management , if the user is a valid user(student/teacher)

The user can go further and do operations :

1. Borrow book [Condition:-- (user count<5 for student and <10 for teacher)]
2. Return book [Condition :- due date is near or will be in loop for all the other books]

If the user borrows/return books the librarian is notified accordingly.

The Librarian can perform the following operations :-

1. Add book is increasing the total book count of a particular book or increasing when the total book is too low.
2. Delete book is reducing book count when the total book count of a particular book is too high or the total book count is too high (e.g 10000 books).
3. Search for users with deadline<10 days and send the notification to the relevant user.(Get email from librarian)

Interface Used :- Iservice1

Process used

* GetBookByTitle:-

Fetching the related books by their title here.

* GetBookByAuthor

Fetching the related books by their author here.

* GetBookByKeyword

Fetching the related books by their keyword here.

* AddBook

Inserting book by librarian

* DeleteBook

Deleting book by librarian

* GetLoginStatus

Verifying the user who is logging is valid user or not and then only the valid user can perform the operations listed here.

* BorrowBook

Borrowing book by Student | Teacher ( Teacher has higher borrowing and time duration for books) Logic is implemented likewise.

* ReturnBook

Reducing the book count in the user table on return and increasing the total books in library totalbooks count

* SendEmail

Sending email by Librarian only when the difference between present day and day of return is less than 10 days . Teacher has higher borrowing time of 30 days and Student has of 15 days.