**Requirement Specification**

My project is a library system that is used by staff to register students and add, amend, remove, and view books on the system. Students can also have all the above done to the student object on the system. It is used from the staff’s point of view, so when a student wants to take out a book. The staff member will enter the students details and the book he/she wishes to loan.

When the user opens the application, a login interface will appear. **Use Cormac as the Username and enter the password as 123 to get into the system.** This is used to signal for staff use only.

There are 3 instantiable classes, Book.java, Student.java, LoanedBook.java. There is also the driver program which is LibraryApp.java and another class which handles the login ordeal. There is an attribute called quantity in Book class to keep track of the number of copies of that book in the library. The LoanedBook class will model a transaction for a Book object that is currently being loaned to a particular Student object. This class has an attribute of type GregorianCalendar which holds the date on which the book was loaned. Every book object is meant to have a maximum loan time and if the book is not returned by that due date, a fine would then occur on that Student.