

Projects

Library Managing System

Assumptions:

- The clients of this software are the **librarians** and **readers**
- the library could have multiple branches and a librarian in one branch could see the books of the other branches
- books have specific categories such as scientific, social studies, literature ...
- the librarian should be able to
 1. login into the system with his or her email
 2. enter a book into the system
 3. delete a book out of the system
 4. query books by keywords
 5. query details about specific books which may include
 - is this book in the library or is it borrowed
 - how many copies of a given book are available and the state of each copy
- the reader should be able to
 1. login into the system
 2. see the books that he borrowed and the due date of it, and fees he must pay
 3. query all books in the library
 4. see the details of the books like which branch is it in, how many copies available

- 5.reserve a book from the system(he doesn't have to go to the library and then realize that someone took it before he came)
 - 6.query the available books by keywords or category(for example query all books in the physics department or social studies books)
- the system should have information about the author and the author's available books
 - if a reader didn't return the borrowed book after the due date then he gets a fee of maximum the price of the book.