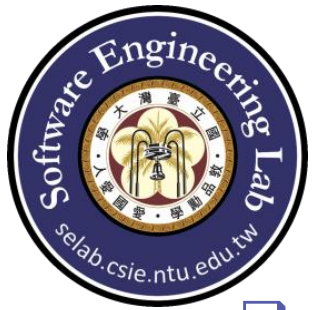


A Library System

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Requirements Statement

- ❑ Consider a small library system with the following transactions:
 1. Check out a copy of a book/ Return a copy of a book.
 2. Add a copy of a book to/ Remove a copy of a book from the library.
 3. Get the list of books by a particular author or in a particular subject area.
 4. Find out the list of books currently checked out by a particular borrower.
 5. Find out what borrower last checked out a particular copy of a book.
- ❑ There are two types of users: staff users and ordinary borrowers.
- ❑ Transactions 1, 2, 4 and 5 are restricted to staff users, except that ordinary borrowers can perform transaction 4 to find out the list of books currently borrowed by themselves.
- ❑ The system must also satisfy the following constraints:
 1. All copies in the library must be available for check- out or checked out.
 2. No copy of a book may be both available and checked out at the same time.
 3. A borrower may not have more than a pre-defined number of books checked out at one time.