**User Stories**

We first started with determining the use cases where we decided on the actors, afterwards we have written the user stories to elaborate on the details of each actors doing and goals to better guide us when creating the software solution

|  |  |  |  |
| --- | --- | --- | --- |
| ID | As | I want to | So that |
|  | GTL | have a catalogue of books available online | members interested can see books by author, title, and subject area |
|  | GTL | Be able to request books from the other tech libraries | If book is missing it could be lent from other libraries |
|  | GTL | Be able to lend books to other tech libraries | If another library is missing a book it could be lent |
|  | GTL | Be able to see users of other tech libraries | GTL could see if user is registered in another library |
|  | GTL | Be able to see other tech library catalogue of books and their status | it would be known if book is available to be lent |
|  | GTL | expose statistics based on all libraries | It is possible to see information of interest |
|  | librarian | know how many copies of each book is in the library or out on loan | Librarian can make informed decisions when buying new books or lending them |
|  | librarian | have a list of some books that I am interested in acquiring | They are easy to access and keep track of |
|  | librarian | have a system that keeps track of books that cannot be lent | They are easy to access and keep track of |
|  | librarian | Approve applicant | Card can be issued |
|  | member | have card renewal notices sent | There is enough time to renew the library card |
|  | member | check out books | Book can be read |
|  | member | return book | Other interested users can use it |
|  | applicant | become a member of the library | library card can be issued |
|  | professor | have professors considered as a member of library automatically | library card can be issued |
|  | reference librarians | access description of a book | Member could read it |

**Facts:**

**expose statistics based on all libraries example**: the average loan time, which university has lent out most books, which book (or top 10) are the most loaned and more.

**Books** are identified by their International Standard Book Number (ISBN), for each title there is a description in catalogue

**Librarians** ensures that the books that members want to borrow are available.

**Member** can become a member of the library, by filling out a form including their SSN, campus and home mailing addresses, and phone numbers after that the librarian issues a numbered, machine-readable card with the member’s photo on it. Members have card renewal notices sent to their campus address a month before the card expires. Member can check out no more than five books for period of 21 days. Members have one-week of grace before a notice is sent.

**Professors** are considered as a member of library automatically and his or her information should extract from the employee records. Library card is mailed to professor’s campus address. Professors get card renewal notices sent to professor’s campus address. Professors can check out a book for three-month interval.Professor have two-week of grace before a notice is sent.

16,000 members

100,000 titles

250,000 volumes (an average of 2.5 copies per book).

10 percent of the volumes are out on loan at any time

Most overdue books are returned within a month of the due date. Approximately 5 percent of the overdue books are either kept or never returned.

Library card that is good for four years.

Members usually return books within three to four weeks. Most members try to return books before the grace period ends. About 5 percent of the members must be sent reminders to return books.

The most active members of the library are defined as those who borrow books at least ten times during the year. The top 1 percent of membership does 15 percent of the borrowing. The top 10 percent of the membership does 40 percent of the borrowing. About 20 percent of the members are totally inactive in that they are members who never borrow.

Staff of library- chief librarian, departmental associate librarians, reference librarians, check-out staff, and library assistants.

The library does not lend- reference books, rare books, and maps.

Some books may have the same title; therefore, the title cannot be used as a means of identification. Every book is identified by its International Standard Book Number (ISBN), a unique international code assigned to all books. Two books with the same title can have different ISBNs if they are in different languages or have different bindings (hardcover or softcover). Editions of the same book has different ISBNs.

GTL also cooperates with four other tech libraries. Each library has its own service that it makes available to all the other tech libraries. The different libraries might have different rules for acquirement and GTL must negotiate agreements with each library.

**Requirements:**

The proposed system must be designed to keep track of the members, the books, the catalogue, and the borrowing activity. The system should be a working prototype with UI, business logic and a (heavy) database access layer.