Functional requirements

1. **Sign up and Login (customer and administrator)**

Administrators can log in with a set ID without having to sign up for membership.

Customers can create their own account through membership, and after log in, can use the application.

1. **Member information management (administrator)**

After logging in to the program, administrators can view member information.

1. **Reserve seat of reading room (customer)**

If the customer wants to use the reading room, customer can choose the available seats and reserve them.

1. **Add and delete books (administrator)**

Administrators can change the data in the book database by adding or deleting books in the library. When adding a book, they must also enter the book information, such as the publisher, book name, author, and unique number of the book.

1. **loan and return books (customer)**

Customer can loan or return books. When borrowing/returning, it is entered and managed in the book database. If customer return is overdue, they will be penalized for the next loan.

1. **Search books (customer)**

Customer can search for the books they want through keywords such as book name, publisher, author, and unique number of the book. In addition, they can get the location, information of books by searching.

1. **Book management (administrator)**

Through the program, administrator can check which books are currently loaned and which books are overdue. In addition, they can edit the information of the books.

