Library Online Reservation System

# About

The library system that I have designed is going to be an online website that is going to allow members of the library to register, login and view books in the library. The user will also have the ability to reserve available copies of the book, view reviews made by other members and also make their own reviews on books. The user can also view and remove reservations that they have made. The admin (Librarian) has the ability to also view books and reservations, with extended ability to view the reservations made by users and books reserved, and remove reservations at their own desire. The librarian also has the ability to remove reviews made by other users (for example, cases of vulgarity etc…).

The automated system has the ability to remove a reservation on a book if the book has not been collected within 3 days of reservation. Also, if a book has been taken out for more than 2 weeks and not returned, a fine will be placed on the user and incrementing for each day not returned.

### Video link:

Link: <https://www.youtube.com/watch?v=srG_QaVcPzw>

# Use Cases

C:\Users\YamiVegeta\Downloads\UseCase.png

# Extended Descriptions

1. The login system (for member)
   1. Login
   2. If login fails, suggest registering, otherwise go to 4
   3. If yes, go to register, else return to 1
   4. go to View Books or View Reservations
2. Reservation system
   1. After going to View Books;
   2. Click reserve book beside book.
   3. If book is unavailable; the reserve button will not be available.
   4. Reserve book.
   5. If book not collected within 3 days, reservation cancelled.
3. Review system
   1. In View Books.
   2. Click book title.
   3. Goes to a page based on the book, with list of reviews by other members.
   4. Enter review into text box, submit.
   5. Select good or bad on a general rating
   6. If review already exists, old review is deleted and replaced.

# Analysis and Design

## Structural Model

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# Behavioural Model

## Reservation System (Making a reservation)

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## Reservation System (Removing a reservation)

## C:\Users\YamiVegeta\Downloads\Sequence Diagram 2.png

## Register / Login system

## C:\Users\YamiVegeta\Downloads\Sequence Diagram 3.png