







Week: <u>6</u> Class: <u>6</u> Date: 30/01/2023

In this lab. we'll build a library management system. The core features are - you can add books and pent books.

There can be two types of users. Regular users and special users. Regular users can only rent books for a certain amount of time 3,5,007 days special users can add or delete books to the list.

So, there'll be 6 classes in total in the system.

- Book ID, Title. Author. Publisher, Quantity
- User ID, Name, Address [Abstract class]
- Regular Users: User List LBOOK7

- Special Users: User - Add Book (List CBOOK), Book)
Delete Book (List CBOOK), Book)

- Rent - ID. BookD. UserID. Duration

Rent A Book (Book ID, User ID, Duration) - Static Utility class Gthis will insert a Rent instance inside "Rents" List.

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There should be 4 lists in total.

- 1. Books
- 2. Regular Users
- 3. Special Users
- 4. Rents

asic ul	Label Tex	+B ox	ListBox 1
Name Address Book ID B v User ID 3 v Duration v Rent Book 4	Book ID Book Title Author Publisher Quantity Current user Delete Book		त प्रमालम क

This will show the list of all users including Regular and special If the selected user is not special user, elicking on Add or Delete Buttons will show a message "Insufficient Rights". If the user is special, it'll add or delete Books.

- 2 It is a listBox containing the wrrent or existing Books information.
- (3) A dropdown or combobox. But, this will only show the list of Regular users.
 - (3) evill add a Rent Type of object in the Rents" List; and decrease corresponding Book Quantity by 1.

 * Book Quantity can't be negative.
- 5) Will only show the books that has a quantity of more than 1.