

Project Overview

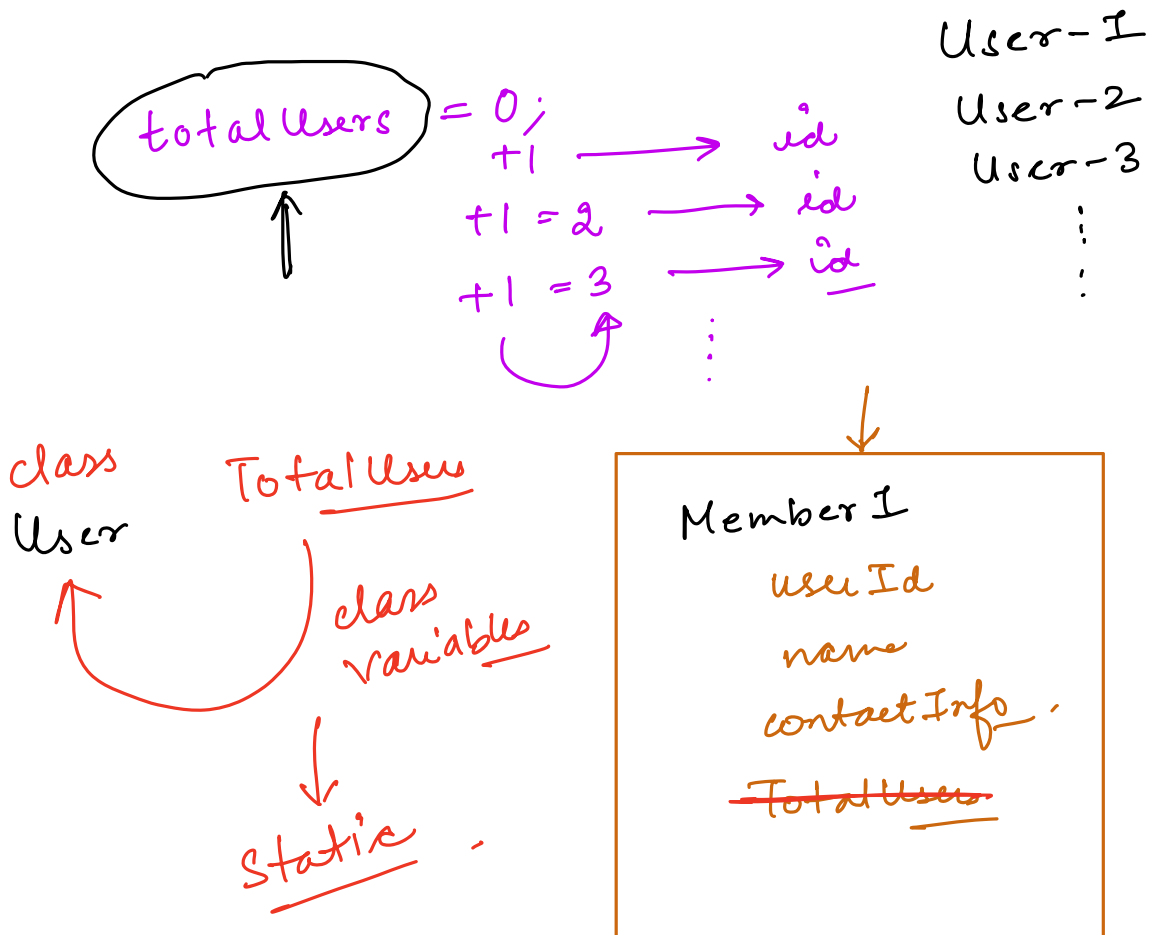
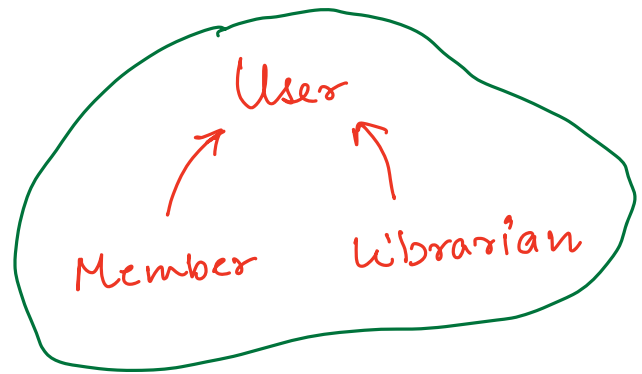
Build a `library system` where:

- The library can have Books, magazines and Journals.
- Some types of items can be loaned and some are only for reading at library.
- Users (Members : Students, Professors) can borrow and return different types of Library items.
- Books have categories (Fiction, Non-fiction, Academic).
- A loan management system keeps track of issued books.
- Implement features like late fees and borrowing limits.

Milestone A 🎯:

Represent User structure

- Create the Base User Class
- Add Constructors to User
- Create a Subclass Member
- Create a Subclass Librarian
- Implement generateUniqueId using Static and Final Concepts

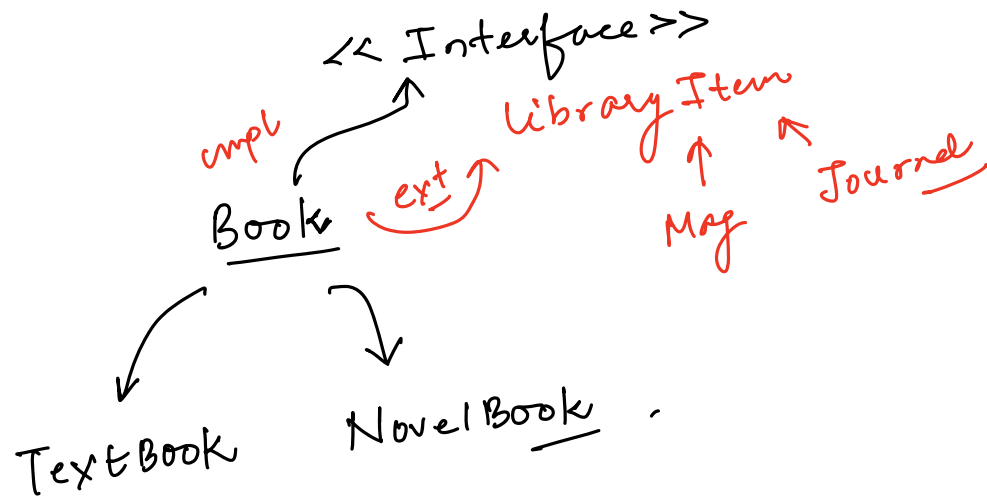


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Milestone B 🎯:

Implementation of functionality of Lending of Books

- Create the Lendable Interface
- Implement the Abstract Book Class
- Create TextBook & NovelBook Class



Milestone C 🎯:

Implement LibraryManagementSystem and
Integrate all the parts to showcase working
system

- Set Up Collections of books and users
- Implement Search Functionality
- Integrate Book and User Management
- Demonstrate all functionalities in a Client