Description

01. Librarian Class

The Librarian class represents the library staff responsible for managing the library's operations, including book inventory and issuing books to users.

02. User Class

The User class is the base class for Students and Teachers, encapsulating common attributes and behaviors shared by both user types, such as login credentials and profile information.

03. Student and Teacher Classes

These classes inherit from the User class and define specialized attributes and behaviors unique to each role. For example, Students may have a student ID, while Teachers may have access to teaching materials.

04. Book Class

The Book class represents books available in the library and includes attributes such as title, author, ISBN, and availability status, along with methods for managing book details.

05. Article Class

The Article class captures user-contributed articles, storing attributes like title, content, and publication date. It supports operations for adding, editing, and managing articles.

06. ArticleRating Class

ArticleRating manages user ratings for articles and establishes connections between users and the articles they have rated, contributing to user feedback and interaction.

07. BookRating Class

BookRating class handles user ratings for books, facilitating the rating and review process for library books and enabling user feedback on book quality.

08. TeacherMaterials Class

TeacherMaterials represents additional teaching materials that teachers can access. It includes attributes for title, content, and availability status, supporting teachers in their educational resources.