Library Management System

This Python-based Library Management System allows for managing book records and user interactions in a library setting. It supports functionalities such as book searching, issuing, returning, adding, deleting, and modifying, as well as user account management.

Features

* User Authentication: Login and account creation for users and administrators.
* Book Management: Administrators can add, delete, and modify book details.
* Book Lending: Users can search for, issue, and return books.
* Persistent Storage: Book and user data are stored in text files (Books.txt and Users.txt).

Functions

# search()

Searches for books by title. It lists all books containing the search query in their title and displays their details.

# returnBook()

Allows the return of a book to the library. It changes the book's status to available and clears the current issuer's details.

# issue()

Facilitates the issuing of a book to a user. It changes the book's status to issued and records the issuer's details and the issue date.

# display()

Displays all books in the library, showing their details including availability status.

# deleteBook()

Enables administrators to delete a book record from the library's database.

# addBook()

Allows administrators to add new books to the library, capturing necessary book details.

# modify()

Provides the ability to modify the details of existing books, including book ID, name, author, and other details.

# loginMenu()

Displays the initial login menu, handling user authentication and redirection to the appropriate menu based on user role (admin or regular user).

# adminMenu()

Presents the administrative menu, offering options to manage book records and user accounts.

# userMenu()

Provides the user menu for regular users, allowing them to search, issue, and return books.

# createAccount()

Handles the creation of new user accounts, including input validation for usernames and passwords.

# login()

Manages user login, validating credentials against the stored data in Users.txt.

Usage

* Start the program.
* If no Books.txt or Users.txt files are found, the system will prompt to create them.
* Follow the prompts to create an account or login.
* Depending on the user role (admin or user), different functionalities will be available, such as managing books (for admins) or issuing and returning books (for users).

Files

* Books.txt: Stores the book records, with each book's details separated by semicolons (;).
* Users.txt: Contains user account information, including usernames and passwords.