Library Management System

Introduction

The Library Management System is designed to manage books and students. It provides functionalities for both librarians and students to handle library operations effectively.

User Type

The system includes two types of user logins:

- ❖ **Librarian Login:** Librarians can manage book sections, add new sections, add new books, and process requests.
- ❖ **Student Login:** Students can request books, provide feedback, and view the status of their requests.

Functionality

- ❖ **Librarian Features:**
  - ➢ **Add Book Sections:** Librarians can Categorize books into sections like Fiction, Non-fiction, Science, etc.
  - ➢ **Add New Books:** Librarians can add new books within respective sections.
  - ➢ **Process Book Requests:** Librarians can view and manage book requests submitted by students. They can approve or reject book requests.
  - ➢ **View Feedback:** Librarians can view feedback submitted by students for books.

- ❖ **Student Features:**
  - ➢ **Request Books:** Students can search for books and request them for borrowing.
  - ➢ **Provide Feedback:** Students can give feedback on books they have borrowed.
  - ➢ **View Book Availability:** Students can check the status of their book requests.

Presentation link:

https://drive.google.com/file/d/13gp6VwTC1TOewOhm1TnkLHVwyIdFosxr/view?usp=sharing

Technologies Used

- ❖ **Web Framework: Flask**
- ❖ **Database ORM: SQLAlchemy**
- ❖ **Security: Werkzeug for password hashing and session management**
- ❖ **Frontend: HTML templates rendered with Jinja2**