Project Report - Readify-Hub

Library Management System

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Description

The Library Management Application Is Composed To Two Main Sections

1. For Users
Users have the ability to borrow books for their desired duration, read books, make and cancel book requests, view and write book reviews, rate books, provide feedback, track their book borrowing statistics, see books whose requests were rejected by the librarian, and check on books that are overdue.

→ User Actions
Request Books, Cancel-Request Books, Search For Books, Rating, Feedback, User Statistics, User Dashboard

2. For Librarians
Librarians can monitor all users who have borrowed or requested books. They have the capability to add, delete, and update sections, as well as view all the books within a section. Additionally, librarians can manage the library's book inventory by adding, deleting, and updating books. They oversee all user requests, with the authority to approve or reject book requests and monitor the expiration times of borrowed books.

→Librarian Actions
Search, Delete, Add, Update, Monitor sections and books,Librarian Statistics, Librarian Dashboard

Tools Utilized

HTML / CSS , BOOTSTRAP, Flask(Python), SQLAlchemy, Jinja2 ,SQLite, Matplotlib, DateTime, Timedelta

Conclusion

The Library Management System is designed to simplify library operations for both librarians and users, offering a streamlined interface for efficient access to resources. Key features include intuitive book browsing, user reviews , and valuable statistical insights. With robust backend support from Flask and SQLAlchemy and a visually appealing frontend designed with HTML/CSS and Bootstrap, this system enhances the overall library experience.

Video Link

https://www.loom.com/share/48bb49bade554aefbe23355e69528cc6?sid=1d7970f1-b10b-4279-ab7a-1aafaf5547d8

Schema :