

Project Report:

Library Management System **MAD-1 Project**

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Project Description:

It is a multi-user app (one required librarian and other general users/students) used for issuing e-books to users, a user can request, read, return e-books. Librarians can add new sections/e-books, issue/revoke access for a book. Every section can have a number of books, the system will automatically show recently added sections/books or based on certain rating.

Technologies Used:

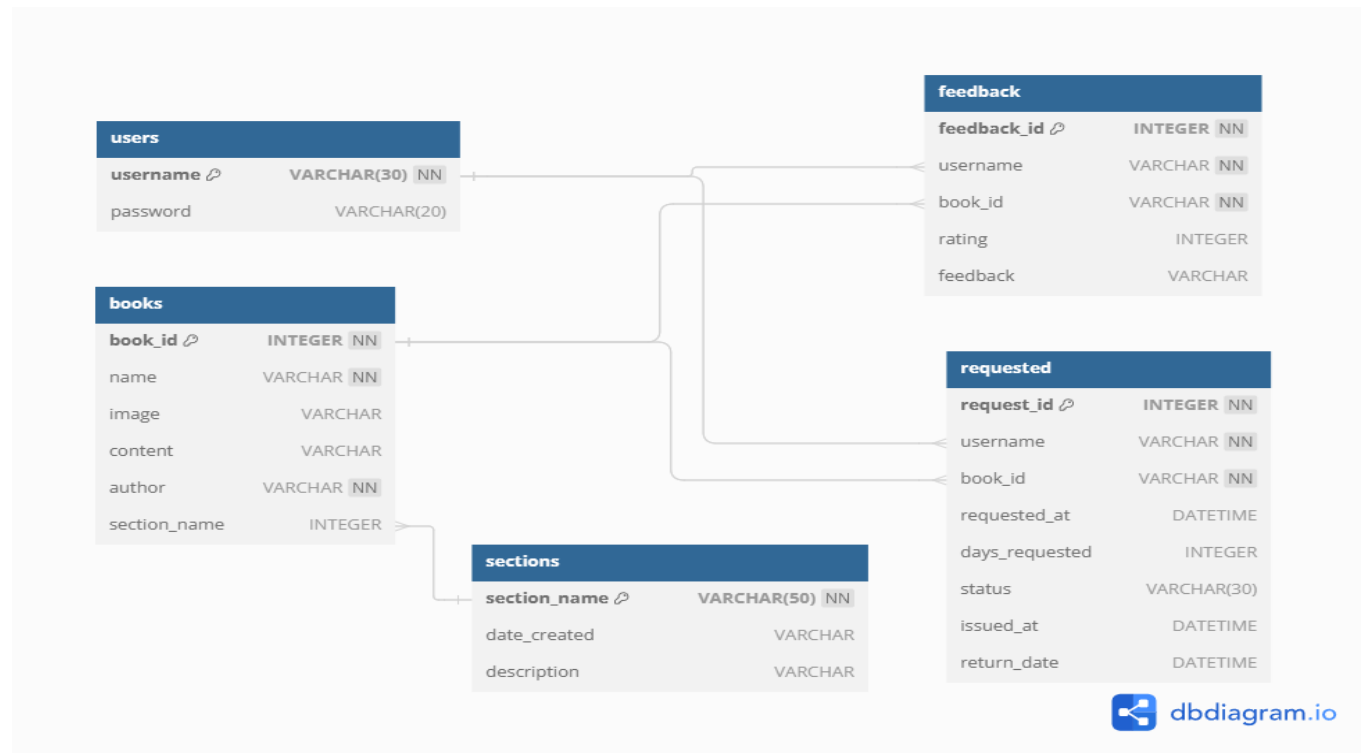
- Flask - web framework
- Jinja2 - templating engine
- Bootstrap - for HTML and CSS styling
- SQLite - for data storage
- SQLAlchemy – ORM mapper to manage data using python.
- Flask RESTful API – API library form API endpoint implementation

Functionalities:

- Librarian login and User login/Register with Authentication.
- Librarian has the ability to add new Sections/Books and to edit and delete them.
- Search functionality implemented in the Book store for users convenience and ask request the book for access
- The user can also download the book in form of PDF.
- Librarian has the ability to revoke access of a book from the user at any point of time
- The access of the book will automatically be revoked if the requested time period has passed

- The user can give feedback about the book that have been issued to them and also give rating to the book
- CRUD based working of Users, Books, Sections, Feedbacks and Requests.
- Basic stats in Admin dashboard
- The books store only shows the book that has not been requested by the user
- A user can only provide one feedback to a certain book

Database Schema Design:



Challenges Faced:

- Requirements Gathering
- Data Modeling

Video link: <https://drive.google.com/file/d/14LrqZOyDYzn6O0BptOpesHqE6O8jIHsv/view?usp=sharing>

