

Library Management

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Description: Library management is a multi-user application that allows users to request e-book which they want to read. It is a free platform with its unique set of features and capabilities. This application allows to read e-book for certain period of time and can it after they complete their read. The project at hand entails the development of a web-based Library management System application utilizing Python Flask as the backend framework and Vue.js as the frontend framework.

Technologies Used

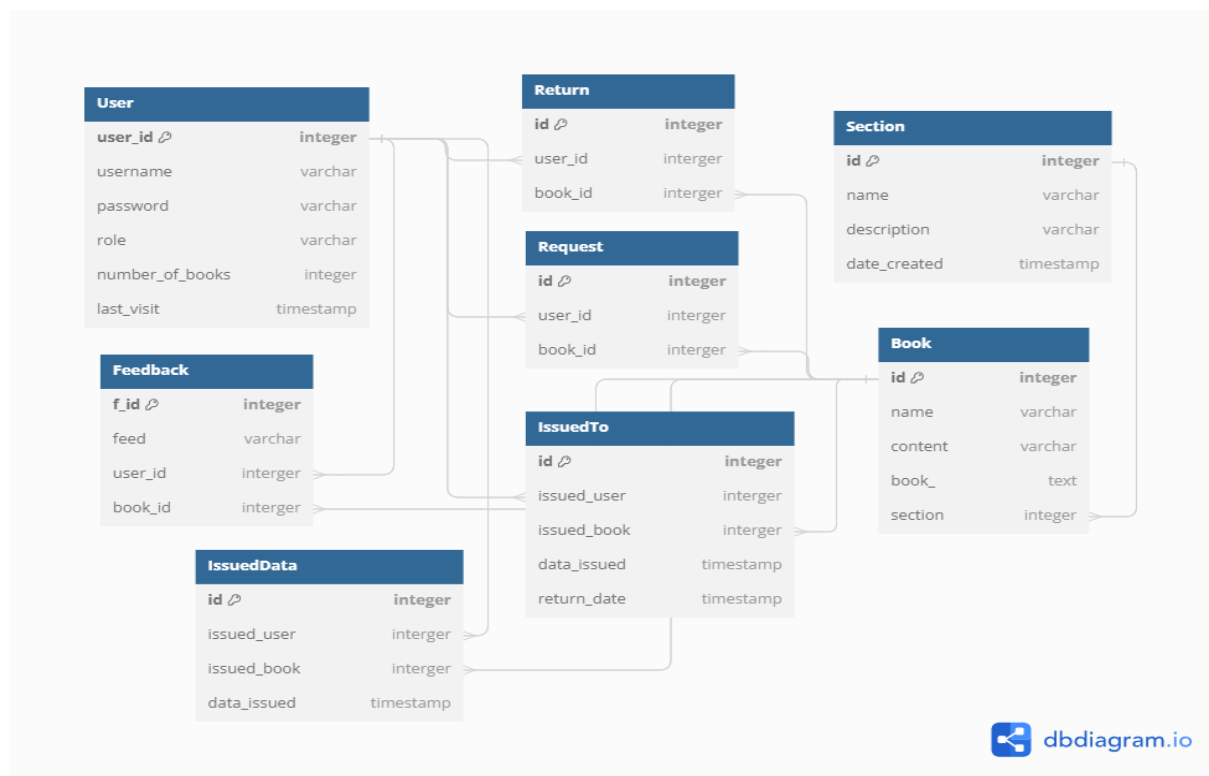
Backend

- Python-flask, SQLAlchemy, flask-cors, flask-jwt-extended, celery, redis, smtp lib

Frontend

- Vue 3, Vue-router, ApexCharts, Bootstrap

Database Design



Architecture and Features

The library management app comprises two dashboard one for Admin and other for user. There is one Admin/Librarian who can perform functionality of add, edit and delete on book and section using APIs. User has his/her own dashboard which shows books and section the book they want to get issued. User can request admin for the e-book for certain period of time and admin can accept the request or decline as he/she wants. Last date is assigned to each issue of the book. User can get maximum of 5 books. User can give feedback about the book and search for particular book. The summary page graphically shows the number of Feedback given to each book.

Asynchronous and Scheduled Jobs

The app uses celery and Redis for asynchronous and scheduled jobs for daily mail and book expiry.

PRESENTATION LINK

https://drive.google.com/file/d/1id0shyElrT1H5SrXYMIlo5fxxBepX0DJ/view?usp=drive_link