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MAD I Project

Library Management System

Libraries and Frameworks

- Python Libraries
    - flask
    - flask_sqlalchemy
    - datetime
- Database
    - SQLite3
- Frontend
    - HTML5
    - JavaScript
    - Bootstrap

Database Model

Table: Book

Field	Type	Constraint
ID	INTEGER	Primary Key, Not NULL, Unique, Auto Increment
Name	TEXT	
Author	TEXT	
SID	INTEGER	

Table: Users

Field	Type	Constraint
ID	TEXT	Primary Key, Not NULL, Unique
Password	TEXT	

Table: Section

Field	Type	Constraint
ID	INTEGER	Primary Key, Not NULL, Unique, Auto Increment
Name	TEXT	
Desc	TEXT	

Table: Issued

Field	Type	Constraint
SL	INTEGER	Primary Key, Auto Increment
BID	INTEGER	
UID	INTEGER	
Status	TEXT	
DOI	TEXT	
DOR	TEXT	

Main Features

- Librarian
    - Login with Admin Privileges
    - View, Add, Edit and Delete Sections
    - View, Add, Edit and Delete Books
    - Accept and Decline Requests
    - View and Revoke Issued Books
    - Filter Option
- User
    - Register and Login
    - View Current, Completed and Requested Books
    - View all available books
    - Request, Read and Return Books
    - Filter Option

Video Link: https://drive.google.com/file/d/1d5b7voPK14ATOqKm6-h5cTUE4fKJpFFQ/view?usp=sharing