Library Management System – MAD II – Jan 2024 Project

Objective

To build a portal that users and librarian can use to perform various operations done in an online library

Toolset

Flask – flask_restful, flask_sqlalchemy, Python, Vue – vue-cli, SQLite

Models

Table Name	Column Name	Column Type	Key	Nullability
User	id	Integer	Primary Key	Not Null
	name	Text		Not Null
	email	Text	Unique	Not Null
	password	Text	Encrypted	Not Null
	role	Text		Not Null
Section				
	id	Integer	Primary Key	Not Null
	name	Text	Unique	Not Null
	description	Text		Not Null
	crea			
Book				
	id	Integer	Primary Key	Not Null
	name	Text		Not Null
	content	Text		Not Null
	authors	Text		Not Null
	book_path	Text		Not Null
	section_id	Integer	Foreign Key	Not Null
user_book				
	user_id		Foreign Key	Not Null
	book_id		Foreign Key	Not Null
	request_date			Not Null
	issue_date	Datetime		
	due_date	Datetime		
	return_date	Datetime		
	status	Text		
	revoke_date	Datetime		

APIs

New User Register	/register	POST
Login	/login	POST
Create New Section	/section	POST
Read all Section	/section	GET
Read a particular section	/section/id	GET
Read books in a section	/book/section/<section_id>	GET
Read all books	/book	GET
Update Section	/section/<id>	PUT
Delete Section	/section/<id>	DELETE
Create New Book	/book	POST
Read a particular Book	/book/<id>	GET
Update Book	/book/<id>	PUT
Delete Book	/book/<id>	DELETE
Request Book	/requestbook/<userid>/<bookid>	POST
View Books by Status	/requestbook/status/<status>	GET
View Books by User	/requestbook/user/<id>	GET
Update Book Request status	/requestbook/status/<request_id>/<status>	PUT

Video recording

https://drive.google.com/file/d/1ViNeOs1xdoVvRIiNDYiOXLrmXeznYbty/view?usp=drive_link