

Free Thinker

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Project Title: The Book Lounge

Project Category: Desktop Software

Project Github Repository Link:

<https://github.com/shudhuiami/the-book-lounge>

Project Video Link:

<https://github.com/shudhuiami/the-book-lounge/raw/master/the-book-lounge-presented.mp4>

Introduction to The Book Lounge:

I have built a Desktop Application which is “The Book Lounge” is a Library management software which can manage multiple libraries.

Its main theme is to bring multiple Knowledge at one place so that users can find every information here. By creating an account as a library manager, a user is opening a Library where is can add members and books and manage the library system.

On the other hand, by creating an account as library member as user is entering the system as an inquisitive. Library managers can add him as member on the library and he can access all the books on libraries on which he is member.

Features:

This system is mainly focused on how I can make it user friendly, means the main priority of making this software was how easily users can use this software and have benefit.

The main feature of this software was the user-friendly UI. Also, the process of this software is easy to understand. A user can easily setup a virtual library using this software. He can easily upload e-books and add members from the system using just email address

On the other hand, the member type user can be members of multiple libraries collect books of his like from the vast collection of books. They can make a favorite books list and also can create a reading books list.

So, as we can see acquiring knowledge from this system is really easy.

Technical Details:

Platform: Tkinter

Programming Language: Python

Database: MySQL

Libraries: Pillow(PIL), ttk, Bcrypt, Pathlib, Requests, os, Paramiko, Secrets, json etc.

Code Map:

- **main.py** is the main initial file. This file handles the authentication check and the system routing/navigation system.
- **global_variables.py** file contains the global variables, functions and classes. The file is imported and used all over the application.
- **lib** directory contains the other files and contents of the application.
 - **_storage_** directory contains two JSON files [library.json & user_info.json] which are used to store information locally.
 - **images** directory contains all the images that are used in this application.
 - **views** directory contains all the other views of this system/application

This is a simple Code map of the system (The Book Lounge)

Future Plan:

Currently this system is in its Alpha version.

I have many plans which I am planning to implement of this system.

1. Two-way membership process using request method. Both member type user and library manager will have options to send request to be member of library and both users will have ability to accept and reject the request.

2. Adding physical books to the system with a process using which the library manager can send book to user and take that book return on time same way user also will be able to request and take physical books and return it.
3. Create a Web based panel of this system so that users can access the system using any device.
4. Creating an Android Application of this system so that users can use this system on phone more easily.
5. Adding other knowledge contents like Articles, Research papers etc. to this system.
6. Updating search and filters of the system so that user can find the item which he seeks easily.

Those are the main point which I am planning to update in the future. There are other ideas also which I am still planning about.