



Hands-On Prerequisite Python in AI

Final Project 01

Deadline: 2023 11 July

Score: 2500 + 300



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Library Management System

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Library Management System

In this project you should be write a library management system in Python using object-oriented programming (OOP). this project have following details.

- **In this program we have book, user and admin:**
 1. users should be able to borrow and return books and also they should able to see information of books.
 2. administrators should be able to add, edit, and delete books from the library.

Book Information

➤ **Each book should have the following information:**

Name

Author

Language

Field

Publication date

Unique ID

User Information

➤ **Each user should have the following information:**

First name

Last name

Email

Phone number

Unique ID

Admin Information

➤ **Each admin should have the following information:**

First name

Last name

Username

Password

Book Borrowing

- **Users should be able to borrow books from the library for a maximum of 10 days.**
- **Each book should have a list of users who have borrowed it, and a list of admins who have edited it.**
- **Users should be able to see all available books and select the ones they want to borrow.**

Admin Actions

- **Admins should be able to add, edit, and remove books from the library by ID.**
- **Admins should be prompted for their username and password when logging in.**
- **Admins should be able to view all books in the library, and search for books by name or author.**

Points

- **The system should store data of program.**
You can use text, CSV or Mysql database.
- **Your system should be implemented using OOP principles, with separate classes for books, users, admins, and the library itself.**
- **Each class should have appropriate attributes and methods for managing the data and behavior associated with that class.**
- **Your system should use inheritance.**
- **Implement error handling and user input validation throughout the system.**

Bonus Features (300)

- **Implement a due date system for borrowed books, and automatically remove users who exceed their borrowing time limit.**
- **Send users reminder emails before their borrowing time limit expires.**
- **Add additional attributes and methods to the classes as needed to enhance the functionality and usability of the system.**

Thanks

Good Luck!

Follow your dreams, believe in yourself and don't give up 😊