

## **Online library management system**

The main objective of the Library Management system is organizing and managing the library tasks. Library is place where all kind of books are available. This is a web base application and only a registered user can access the application. Library Management system is developed to automate the task of entering the records of new book and retrieving the details of book available in the library. This system contains list of all the books. Using this system user can issue book to the library member, maintain their records, and can checks how many book are issued and how many books are available in the library. This system provides separate interface and login for librarian, students and faculties. Librarian can modify database. Using the library management system, user can also maintain the late fine of library member who return the issued book after the due date.

### **Admin:**

Admin can insert, update and delete the books from the directory.

### **User:**

User can see the updated books list.

### **Search:**

Listed books can be searched by the user and admin.

### **API server with JSON:**

I created a simple API server with JSON and checked it with Postman.

### **Docker:**

I cannot create Docker file. Because I could not download it.

Packages used:

1. Flask(Python)
2. Flask-SQLAlchemy
3. Flask-Marshmallow

Tools used:

1. Pycharm IDE
2. Postman

I tried my best to complete the project. Because of unfamiliarity of the Flask, API and Docker, I could not complete the project properly. I hope that you will consider my lacking. Thank you.