

#### WIPRO NGA Program – Python

Capstone Project Presentation –4th and 5th Sept

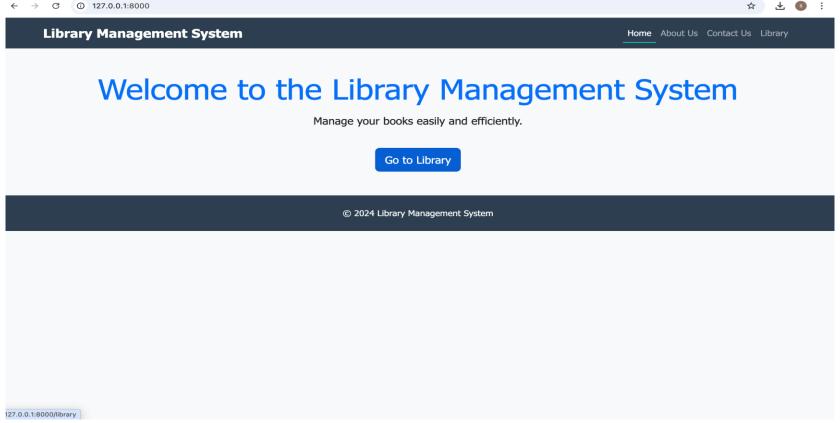
Project Title Here – Library Management System

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#### Library Management System

Built with Flask & Fast API, using SQLite3

Welcome to our Library Management System project. This project aims to create a web-based application for managing books in a library.





# Project Overview

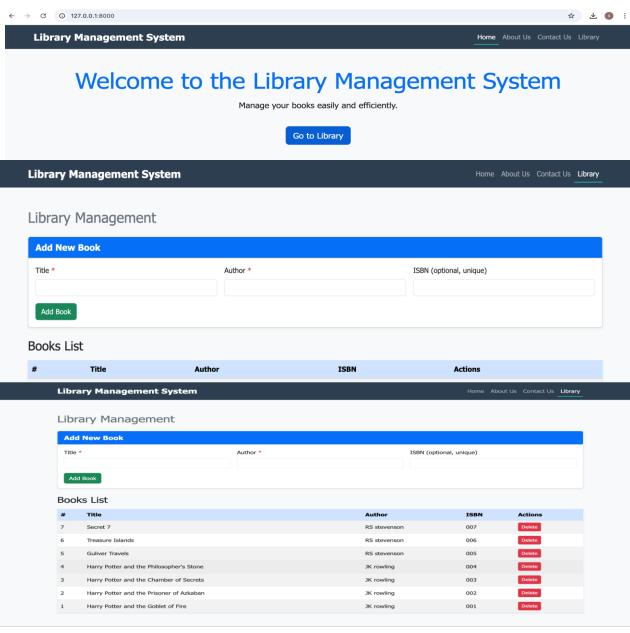
- Web-based Library Management System
  - Features:
    - Add New Books
    - Display All Books in Table

#### **Tech Stack:**

Backend: Flask & Fast API

Database: SQLite3

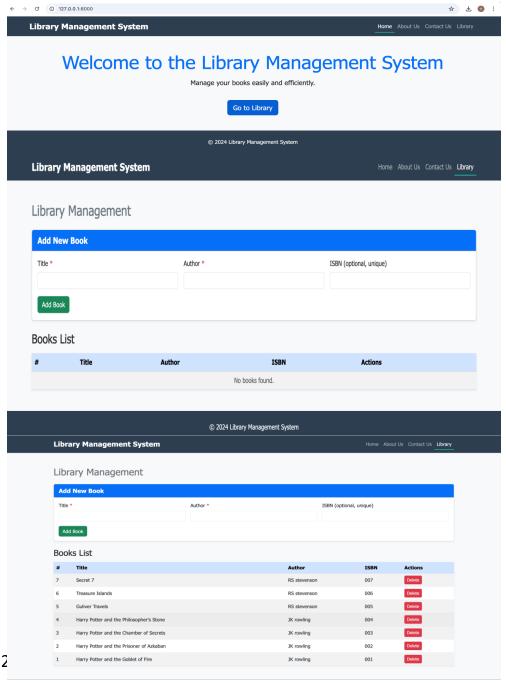
Frontend: HTML + CSS





### **Using Flask**

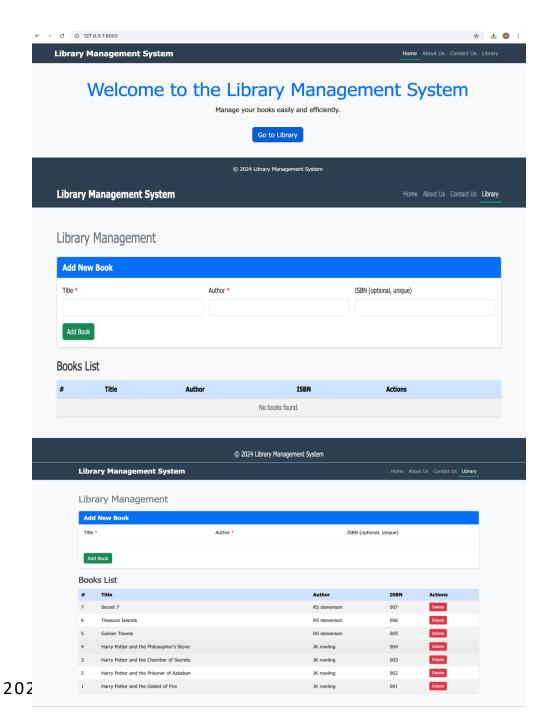
- Simple & beginner-friendly
- Good for small-scale projects
- Traditional synchronous request handling
- Well-documented & widely used





# **Using Fast API**

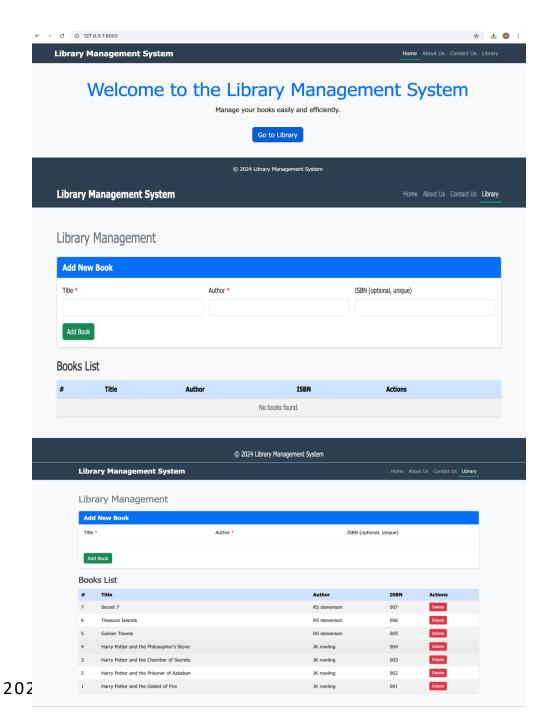
- Modern & high-performance
- Built-in async support (faster I/O operations)
- Auto API docs with Swagger & Re Doc
- Suitable for scalable applications





# **Using Fast API**

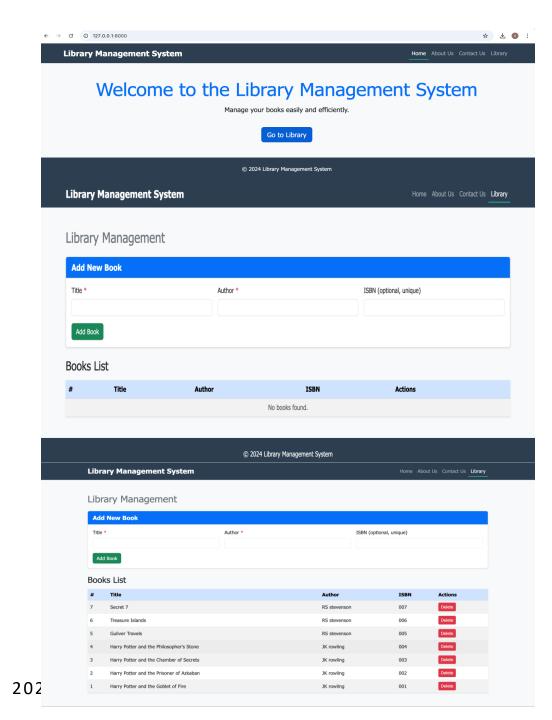
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# Performance Comparison: Flask vs Fast API

- Fast API: Faster, async, scalable
- Flask: Slower, but simpler for beginners
- Both work well with SQLite3





#### Conclusion

- Both frameworks can implement the project
- Flask: easy for rapid prototyping
- Fast API: better long-term for performance

