

Simple Library Management System

Overview

This is a basic procedural Python implementation of a library system managing books and members. It supports adding/updating/deleting books and members, searching books, borrowing/returning books with limits, and basic info retrieval.

Files

- operation.py: Core functions and data structures.
- demo.py: Example usage script.
- tests.py: Unit tests using unittest.
- UML.png/pdf: UML diagram (generate from PlantUML code).
- DesignRationale.pdf: Explanation of design choices.
- README.md: This file.

Requirements

Python 3.x

No external libraries needed.

Usage

Run "demo.py" for a demonstration:

bash

python demo.py