

Library Manager - Application Summary

Overview:

A simple desktop application built using Tkinter for managing a personal library of books. Users can view, add, edit, sort, import, and export book records stored in a JSON file.

Core Components:

- â¢ `app.py`: Main application window, styling, and navigation logic.
- â¢ `models.py`: Book dataclass and serialization helpers.
- â¢ `storage.py`: Handles loading/saving JSON, CSV import, backups, and defaults.
- â¢ `pages/*`: GUI pages for listing, editing, and sorting books using Tkinter widgets.

Data Storage:

Books are persisted in 'data/books.json'. Storage class normalizes and backs up data. Supports CSV import with safe backup to temp or user-specified location.

Features:

- â¢ Book List page shows all records in a Treeview with search capabilities.
- â¢ Edit Books page allows creating, updating, deleting, and restoring default samples.
- â¢ Sort Books page can re-order the list and save the new sequence.
- â¢ Sidebar navigation for switching pages, with simple book icon graphic.
- â¢ Theming and styling tailored for macOS with ttk and custom colors.

Setup & Run:

Execute '`python app.py`' from workspace root. Requires Python 3.x and Tkinter.

Repository Structure:

- `app.py`
- `main.py` (proxy to app)
- `models.py`, `storage.py`
- `pages/book_list_page.py`, `book_edit_page.py`, `book_sort_page.py`
- `data/books.json` (initially may be empty)

This summary fits on a single page using standard letter size.