Book Library App - Angular Project Documentation

A responsive and feature-rich Angular application to manage a library of books. Users can add, edit, delete, and search books with a clean, modern UI that's fully responsive across devices.

# 🔧 Features

* ✅ Add new books with title, author, rating, category, and cover image
* ✅ Edit existing book details
* ✅ Delete books with confirmation alerts
* ✅ Toggle between grid and list view
* ✅ Responsive design for desktop, tablet, and mobile
* ✅ SweetAlert2 for modern alerts
* ✅ Form validation and image fallback handling
* ✅ Local JSON server as mock backend

# 🧱 Tech Stack

* • Angular 17+
* • TypeScript
* • Bootstrap 5
* • SweetAlert2
* • JSON Server

# 🚀 Getting Started

1. Clone the Repository

git clone https://github.com/your-username/your-repo-name.git  
 cd your-repo-name

2. Install Dependencies

npm install

3. Start the JSON Server

npx json-server --watch db.json --port 3000

4. Run the Angular App

ng serve

App will be available at http://localhost:4200

# 📁 Project Structure

src/  
├── app/  
│ ├── components/ # Reusable UI components (cards, forms, header)  
│ ├── pages/ # Main pages (Home)  
│ ├── services/ # API services  
│ ├── models/ # Data models  
│ └── app.routes.ts # Routing config  
├── assets/ # Static files  
├── db.json # Mock database for JSON server

# ✅ TODO (Future Improvements)

* 🔹 Book categories filter
* 🔹 Pagination or lazy loading
* 🔹 Search suggestions
* 🔹 Dark mode

# 📄 License

This project is licensed under the MIT License.