Library Management System

1. Book Catalog

Description: Searchable database of all library materials
Screens: Advanced Search Page, Book Details View, Shelf Location Map
Interaction:

- Patrons: Search by title/author → view availability → see shelf location (e.g., "Fiction A-Z")
- Staff: Add new books via ISBN scanner → auto-populate details from online databases
- "Similar Titles" recommendation engine

2. Borrower Accounts

Description: Patron registration and profiles
Screens: Registration Form, Account Dashboard, Reading History
Interaction:

- New users: Submit ID proof → receive library card number
- View current loans/holds → renew items → track reading history
- Parental controls for juvenile accounts

3. Check-in/Check-out

Description: Track book loans and returns
Screens: Circulation Desk Interface, Self-Service Kiosk
Interaction:

- Staff: Scan book barcode → scan patron card → confirm loan
- Self-service: Tap library card → place books on RFID pad → automatic checkout
- Instant email receipts

4. Due Date Reminders

Description: Automatic email/SMS notifications
Screens: Notification Settings, Reminder History
Interaction:

- 3-day advance notice → overdue alerts → final warnings
- Patrons customize contact preferences (email/SMS)
- Staff override for special circumstances

5. Fine Calculation

Description: Compute late fees automatically
Screens: Fine Dashboard, Payment Portal, Waiver Requests
Interaction:

- Accrues daily rates (e.g., $0.25/day) → caps at maximum
- Online payment with receipt generation
- Staff can waive fines for valid reasons

6. Book Reservations

Description: Hold system for popular titles
Screens: Hold Queue, Available Hold Alerts
Interaction:

- Place hold on checked-out items → get notified when available
- 3-day pickup window after notification
- View position in queue for popular titles

7. Donation Tracking

Description: Record gifted materials
Screens: Donation Intake Form, Acknowledgment Generator
Interaction:

- Log donor info → assess condition → generate thank-you letters
- Decision tracking (Add to collection/Book sale/Recycle)
- Tax receipt generation for qualifying donations

8. Report Generation

Description: Create circulation statistics
Screens: Report Wizard, Custom Filter Builder
Interaction:

- Generate monthly circulation reports
- Customize by branch/material type/time period
- Export to PDF/Excel for board meetings

9. ISBN Search

Description: Quick lookup using barcode numbers
Screens: Barcode Scanner Interface, Quick Results
Interaction:

- Scan ISBN → instantly display title/availability
- Handheld scanner or webcam input
- Direct add-to-cart from results

10. Staff Management

Description: Employee access levels
Screens: Role Manager, Shift Schedule, Audit Logs
Interaction:

- Assign roles (Librarian/Clerk/Admin) with granular permissions
- View staff activity logs for security
- Schedule shifts with conflict detection