Wireframes for Library Management System

Wireframe 1: Login Page

- **User Role:** All Users (Patrons, Librarians, Admins)
- **Objective:** To provide a secure entry point into the system.

Layout & Elements:

- **Header:**
  - Library Logo (top left)
  - Library Name (e.g., "City Central Library")
- **Main Content (Centered Card):**
  - **Title:** "Library Portal Login"
  - **Input Field:** "Member ID / Email Address"
  - **Input Field:** "Password" (with show/hide toggle)
  - **Link:** "Forgot Password?"
  - **Primary Button:** "Login"
  - **Secondary Text/Link:** "Don't have an account? Register Here"
- **Footer:**
  - Links: "About Us", "Contact", "Hours of Operation"

Wireframe 2: Patron Dashboard (Homepage after Login)

- **User Role:** Patron/Member
- **Objective:** To provide a personalized overview of the user's library activity and quick access to common features.

Layout & Elements:

- **Header (Persistent):**
  - Library Logo
  - Search Bar: "Search for books, authors, genres..."
  - Navigation Links: "Home", "My Account", "Catalog"
  - User Profile Icon (with dropdown for "Logout")
- **Main Content:**
  - **Greeting:** "Welcome back, [User Name]!"
  - **Section 1: Currently Borrowed**
    - A list/card view of books currently checked out.
    - Each item shows: Book Cover, Title, Author, Due Date (highlighted if overdue).
    - Button on each item: "Renew"
  - **Section 2: Fines & Dues**
    - A summary box showing "Total Outstanding Fines: $[Amount]".
    - Button: "Pay Now"
  - **Section 3: On Hold / Reservations**
    - A list of books the user has reserved.
    - Each item shows: Book Cover, Title, Status (e.g., "Ready for Pickup", "Position in Queue: 3").
  - **Section 4: Recommended For You**
    - A horizontally scrollable carousel of book covers based on borrowing history.

Wireframe 3: Catalog Search & Results Page

- **User Role:** Patron/Member
- **Objective:** To allow users to efficiently search, filter, and browse the library's entire collection.

Layout & Elements:

- **Header (Persistent)**
- **Main Content (Two-column layout):**
  - **Left Column (Filters):**
    - **Checkbox Group:** Availability (e.g., "Available Now")
    - **Checkbox Group:** Format (e.g., "Book", "E-book", "Audiobook")
    - **Multi-select List:** Genre
    - **Text Input:** Author
    - **Slider/Input:** Publication Year Range
    - **Button:** "Apply Filters"
  - **Right Column (Search Results):**
    - **Search Bar (pre-filled with query from header)**
    - **Sort Dropdown:** "Sort by: Relevance, Popularity, Publication Date (Newest)"
    - **Results Grid/List:**
      - Each result is a card containing:
        - Book Cover Image
        - Title
        - Author
        - Availability Status ("Available", "Checked Out")
      - Clicking a card navigates to the Book Details Page.
    - **Pagination:** (e.g., "Page 1 of 15"

Wireframe 4: Book Details Page

- **User Role:** Patron/Member
- **Objective:** To provide comprehensive information about a specific book and allow the user to take action (borrow/reserve).

Layout & Elements:

- **Header (Persistent)**
- **Main Content (Two-column layout):**
  - **Left Column:**
    - Large Book Cover Image
  - **Right Column:**
    - **Book Title** (Large Heading)
    - **Author(s)**
    - **Average Rating** (e.g., 4.5/5 stars)
    - **Short Summary/Description**
    - **Details Section:**
      - Genre: [Genre]
      - Publisher: [Publisher Name]
      - Publication Date: [Date]
      - ISBN: [Number]
      - Pages: [Number]
    - **Availability Status Box:**
      - "Status: Available" (in green) or "Status: All copies checked out" (in red).
      - "Location: [Shelf Number/Section]"
    - **Action Buttons:**
      - "Reserve this Book" (if checked out)
      - "Add to Wishlist"

Wireframe 5: Admin Dashboard

- **User Role:** Librarian/Administrator
- **Objective:** To give administrators a high-level overview of library operations and quick access to management tasks.

Layout & Elements:

- **Sidebar Navigation (Persistent):**
  - Dashboard
  - Circulation (Check-in/Out)
  - Catalog Management
  - Member Management
  - Reports
  - Settings
- **Header:**
  - Page Title: "Admin Dashboard"
  - Admin Profile Icon
- **Main Content (Grid of widgets/cards):**
  - **Card 1: Quick Stats**
    - Total Books: [Number]
    - Total Members: [Number]
    - Books on Loan: [Number]

- **Card 2: Quick Actions**
  - Button: "Check-out Book"
  - Button: "Check-in Book"
  - Button: "Add New Member"
  - Button: "Add New Book"
- **Section: Books Overdue Today**
  - A table with columns: Book Title, Member Name, Due Date.
  - Link to "View All Overdue Books"
- **Section: Recent Activity**
  - A feed showing recent check-ins, check-outs, and new member registrations.

Wireframe 6: Catalog Management Page

- **User Role:** Librarian/Administrator
- **Objective:** To allow staff to add, view, edit, and remove books from the library's catalog.

Layout & Elements:

- **Sidebar & Header (Persistent)**
- **Main Content:**
    - **Page Title:** "Catalog Management"
    - **Top Bar:**
        - Search Bar: "Search catalog by Title, Author, ISBN..."
        - Primary Button: "+ Add New Book"
    - **Books Table:**
        - A comprehensive table of all books in the system.
        - **Columns:** ISBN, Title, Author, Genre, Total Copies, Available Copies, Date Added.
        - **Action Column:** Each row has icons/buttons for "Edit" and "Delete".
    - **Pagination** for the table at the bottom.

Wireframe 7: Member Management Page

- **User Role:** Librarian/Administrator
- **Objective:** To allow staff to manage library members, including adding new ones and viewing their details and history.

Layout & Elements:

- **Sidebar & Header (Persistent)**
- **Main Content:**
  - **Page Title:** "Member Management"
  - **Top Bar:**
    - Search Bar: "Search by Member Name or ID..."
    - Primary Button: "+ Add New Member"
  - **Members Table:**
    - A table listing all library members.
    - **Columns:** Member ID, Name, Email, Join Date, Books on Loan, Outstanding Fines.
    - **Action Column:** Each row has icons/buttons for "View Details", "Edit", and "Suspend".
  - **Pagination** for the table at the bottom.

Wireframe 8: Circulation (Check-in / Check-out) Interface

- **User Role:** Librarian
- **Objective:** A streamlined, task-focused interface for processing book loans and returns at the circulation desk.

Layout & Elements:

- **Sidebar & Header (Persistent)**
- **Main Content:**
  - **Page Title:** "Circulation Desk"
  - **Tabs:** "Check-out" (selected by default) | "Check-in"
  - **Panel 1: Check-out (Visible by default)**
    - **Step 1: Find Member**
      - Input Field: "Enter Member ID" (autofocus)
      - Button: "Find Member"
      - Member Details Display (appears after search): Name, Status, Current Loans.
    - **Step 2: Scan Books**
      - Input Field: "Enter Book ISBN / Barcode" (autofocus)
      - Button: "Add Book"

        - A list of books scanned for checkout appears below, showing Title and Due Date.
    - **Action Button:** "Confirm Checkout"
  - **Panel 2: Check-in (Visible when tab is clicked)**
    - Input Field: "Enter Book ISBN / Barcode" (autofocus)
    - Button: "Process Return"
    - Return Details Display (appears after scan): Book Title, Member Name, Return Status (e.g., "On Time", "Overdue - Fine of $[Amount] applied").