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# Login & Sign-Up Page

## Purpose:

The Login and Sign-Up pages serve as the entry point for the Library Management System. While the Login page allows existing users to access their accounts securely, the Sign-Up page provides a way for new users to register and gain access to the system. Together, they ensure secure and controlled access, maintain user data integrity, and enhance system usability.

## Login Page Components & Detailed Explanation:

### 1. Username Field:

- Input field for users to enter their unique username or ID.
- Validation ensures it is not empty and follows correct format.
- Username is the first step in authentication before password verification.

### 2. Password Field:

- Users enter their password securely; hidden characters are displayed as \*\*\*\*.
- Password policies enforce minimum length and complexity for security.

### 3. Login Button:

- Validates credentials via backend.
- Successful login redirects to Admin or User dashboard depending on role.
- Invalid credentials trigger an error message.

### 4. Forgot Password Link:

- Allows password recovery via email verification or security questions.
- Ensures users can regain access without admin intervention.

## Sign-Up Page Components & Detailed Explanation:

### 1. Full Name Field:

- Users enter their complete name. Helps in identifying and managing accounts.

### 2. Email Field:

- Email serves as unique identifier and is used for verification and notifications.

### 3. Username Field:

- Chosen username must be unique in the system.
- Validation ensures no duplicate usernames exist.

### 4. Password Field:

- Securely input user password.
- System can enforce password strength for security purposes.

#### 5. **Confirm Password Field:**

- Ensures user types password correctly by confirming it.

#### 6. **Sign-Up Button:**

- Submits registration details to the backend.
- On successful registration, the system may redirect to Login page or directly login the user.

#### **User Flow:**

- **Login:** Open Login Page → Enter Username & Password → Click Login → Backend Validation → Redirect to Dashboard / Show Error.
- **Sign-Up:** Open Sign-Up Page → Enter all details → Click Sign-Up → Backend saves user data → Redirect to Login / Dashboard.

#### **Design & Security Considerations:**

- Simple and intuitive interface for both Login and Sign-Up.
- Validation and error messages to guide the user.
- Password encryption for security.
- Email verification to prevent fake accounts.
- Mobile-responsive design for accessibility.

#### **Summary:**

- Login & Sign-Up pages are critical for controlled access.
- Proper design ensures secure authentication, user convenience, and smooth onboarding for new users.

# Admin Dashboard

## **Purpose:**

The Admin Dashboard is the central control panel for administrators of the Library Management System. It provides an overview of library operations and quick access to key management functions. Through this dashboard, Admins can efficiently manage books, monitor user activities, handle borrow requests, and maintain overall library data integrity. This page is designed for usability, clarity, and operational efficiency.

## **Components & Detailed Explanation:**

### **1. Add Books Section:**

- Allows the Admin to input new books into the library database.
- Fields include Book Name, Author, ISBN, Category, and Quantity.
- Backend validation ensures accurate data entry.
- Provides immediate feedback if a book already exists to prevent duplicates.

### **2. Manage Users Section:**

- Admin can view, edit, or delete registered users.
- Displays user information: Name, Email, Membership Status, Borrowed Books.
- Helps in monitoring user activities and maintaining library security.

### **3. View Borrow Requests Section:**

- Shows all pending and approved borrow requests from users.
- Admin can approve, reject, or mark requests as returned.
- Ensures proper tracking of borrowed and returned books.

### **4. Summary Panels:**

- Total Books: Displays the number of books in the library.
- Borrowed Books: Shows the number of books currently borrowed.
- Pending Requests: Counts borrow requests awaiting admin action.
- Provides at-a-glance information to aid quick decision-making.

### **5. Notifications Panel:**

- Alerts Admin about overdue books, system messages, and urgent actions.
- Helps Admin to respond promptly to critical library activities.

**User Flow:**

- Admin logs in → Dashboard opens → Views summary panels and notifications → Navigates to sections (Add Books, Manage Users, Borrow Requests) → Performs necessary actions → Updates reflect in real-time.

**Design & Security Considerations:**

- Intuitive layout with clear separation of sections for easy navigation.
- Data validation to prevent incorrect or duplicate entries.
- Role-based access control ensures only Admin can access this page.
- Secure session management to prevent unauthorized access.
- Mobile-friendly and responsive design for on-the-go management.

**Summary:**

- The Admin Dashboard is a powerful tool that combines control, monitoring, and management in a single interface.
- Its design focuses on usability, security, and efficiency, enabling Admins to handle library operations effectively.

# User Dashboard

## **Purpose:**

The User Dashboard serves as the main interface for regular library users. It provides a comprehensive overview of their interactions with the Library Management System. Through this dashboard, users can search for books, view borrowed books, check borrow history, submit new requests, and receive notifications. The dashboard ensures that users have easy access to all functionalities in a clear, organized, and intuitive manner.

## **Components & Detailed Explanation:**

### **1. Search Books Section:**

- Users can search for available books using the search bar.
- Filters include Category, Author, and Availability Status.
- Results display Book Name, Author, and Availability.
- Provides a “Borrow” button if the book is available.
- Helps users quickly find the resources they need without navigating multiple pages.

### **2. Borrowed Books Section:**

- Displays a list of all books currently borrowed by the user.
- Shows Borrow Date, Due Date, and Status (On-Time/Overdue).
- Allows users to track their borrowed books and avoid late returns.

### **3. Request New Book Section:**

- Users can submit a request for books not currently available in the library.
- Includes fields for Book Name, Author, and Reason for Request.
- Admin receives and processes the request, updating the user when approved or rejected.

### **4. Notifications Panel:**

- Displays important alerts such as due dates, overdue books, approved/rejected requests, and system messages.
- Keeps the user informed and ensures timely actions.

### **5. User Profile Access:**

- Provides a quick link to view and edit personal details.
- Users can change their password, update contact information, and view membership status.

**User Flow:**

- User logs in → Dashboard loads → Uses search bar or filters → Selects books to borrow → Checks borrowed books and due dates → Submits new book requests if needed → Receives notifications for updates and reminders.

**Design & Usability Considerations:**

- Clean and intuitive layout with clearly separated sections.
- Mobile responsive design for easy access on smartphones and tablets.
- Proper labeling of sections and buttons to reduce user confusion.
- Security measures include role-based access and secure session management.

**Summary:**

- The User Dashboard acts as the central hub for all user interactions with the library system.
- Its design focuses on usability, clarity, and efficiency, enabling users to manage their library activities effortlessly.

## **Add New Book Page (Admin)**

### **Purpose:**

The Add New Book Page is a dedicated interface for the Admin to add new books into the Library Management System. This page ensures that the library database is updated accurately with the latest books, including all essential details. Proper design of this page helps prevent duplicate entries, maintain book inventory, and ensure smooth library operations.

### **Components & Detailed Explanation:**

#### **1. Book Name Field:**

- Admin enters the title of the new book.
- Validation ensures that the field is not empty.
- Prevents duplicate entries by checking existing titles in the database.

#### **2. Author Field:**

- Input for the author's name.
- Helps in proper categorization and search functionality.

#### **3. ISBN Field:**

- ISBN (International Standard Book Number) is a unique identifier for books.
- Ensures that each book is distinct and easily trackable.

#### **4. Category Field:**

- Dropdown menu or input field to specify the book category (e.g., Fiction, Science, Technology).
- Enables proper sorting and filtering in the user search.

#### **5. Quantity Field:**

- Number of copies of the book available in the library.
- Helps track inventory and manage borrow/return operations efficiently.

#### **6. Save Button:**

- Submits the book details to the backend database.
- Validates all input fields before saving.
- Provides confirmation message upon successful addition.

#### **7. Cancel Button:**

- Allows Admin to cancel the operation without saving any data.



- Prevents accidental addition of incomplete or incorrect data.

**User Flow:**

- Admin navigates to Add New Book page → Fills in all required details → Clicks Save → Backend validates and stores data → Success confirmation shown / Error message if duplicate or invalid input.

**Design & Usability Considerations:**

- Simple and organized layout with clearly labeled input fields.
- Input validation to prevent incorrect or missing information.
- Responsive design for access via tablets or desktops.
- Secure backend to prevent unauthorized data manipulation.
- Immediate feedback (success or error messages) for better usability.

**Summary:**

- The Add New Book Page ensures that library inventory is accurate and up-to-date.
- Its design focuses on usability, data validation, and operational efficiency, enabling Admins to manage books effortlessly.

## Search Books Page (User)

### **Purpose:**

The Search Books Page is the primary interface for users to find books available in the Library Management System. It provides search functionality with filters and displays results in an organized way. This page ensures users can quickly locate the books they need and access borrowing options efficiently.

### **Components & Detailed Explanation:**

#### **1. Search Bar:**

- Users can type the name of the book, author, or keywords.
- Provides real-time suggestions if implemented.
- Helps users quickly find relevant books without browsing the entire library.

#### **2. Filters Section:**

- Allows users to refine search results using criteria such as Category, Author, Availability, or Publication Year.
- Enhances the search experience by reducing irrelevant results.

#### **3. Search Results Table:**

- Displays matching books in a tabular format.
- Columns include Book Name, Author, Category, Availability, and Action (Borrow button).
- Clear presentation helps users quickly understand which books are available.

#### **4. Borrow Button (Action Column):**

- Allows users to initiate a borrow request if the book is available.
- Clicking the button sends a request to the backend for approval.

#### **5. Pagination / Scroll Feature:**

- For large libraries, pagination or infinite scrolling ensures the interface remains fast and user-friendly.

#### **6. No Results / Error Handling:**

- If no books match the search criteria, a clear “No results found” message is displayed.
- Provides suggestions to modify search terms.

**User Flow:**

- User opens Search Books page → Enters search keywords → Applies filters → Views results → Clicks Borrow for available books → System sends borrow request → Confirmation displayed.

**Design & Usability Considerations:**

- Clean layout with clear input fields and search results.
- Responsive design for desktops, tablets, and smartphones.
- Instant feedback for user actions (e.g., borrow request confirmation).
- Security: Ensures only registered users can borrow books.

**Summary:**

- The Search Books Page enhances the library experience by allowing users to find books efficiently.
- It combines usability, functionality, and responsiveness, ensuring users can browse and borrow books with ease.

## **Borrow Request Page (User)**

### **Purpose:**

The Borrow Request Page allows users to view and manage their book borrow requests. It ensures that users can keep track of which books they have requested, monitor the status of these requests, and cancel requests if needed. This page enhances user control and transparency in the borrowing process.

### **Components & Detailed Explanation:**

#### **1. Pending Requests List:**

- Displays all borrow requests that the user has submitted but are not yet approved or processed by the Admin.
- Each request shows Book Name, Author, Request Date, and Status (Pending/Approved/Rejected).
- Example: “User requested ‘Introduction to Programming’ on 20th Oct, Status: Pending.”

#### **2. Approved Requests List:**

- Shows requests that have been approved by Admin.
- Displays due dates and pick-up instructions if applicable.
- Example: “Request for ‘Mathematics Textbook’ approved, pick-up by 28th Oct.”

#### **3. Rejected Requests List:**

- Displays requests rejected by Admin, along with reasons if provided.
- Helps users understand and adjust future requests.

#### **4. Cancel Request Button:**

- Allows users to cancel any pending request before it is approved.
- Prevents accidental holds on books that the user no longer wants.

#### **5. Notifications Section:**

- Updates users about changes in request status, such as approval, rejection, or cancellation.
- Example: “Your request for ‘Physics Book’ has been approved.”

### **User Flow:**

- User logs in → Navigates to Borrow Request page → Views pending/approved/rejected requests → Cancels unwanted requests → Receives real-time updates via notifications.

**Design & Usability Considerations:**

- Organized tabs or sections for Pending, Approved, and Rejected requests.
- Clear status indicators with colors (e.g., Green: Approved, Yellow: Pending, Red: Rejected).
- Responsive layout for desktops and mobile devices.
- Immediate feedback when a request is canceled to avoid confusion.

**Real-Life Example Scenario:**

- Suppose a user wants to borrow “Data Structures and Algorithms”. They submit a borrow request → Request shows as Pending → Admin approves it → Status changes to Approved → User is notified and can pick up the book.
- If the user changes their mind before approval, they can cancel the request easily.

**Summary:**

- The Borrow Request Page gives users full control over their borrowing activities.
- Its design emphasizes clarity, transparency, and user convenience, making library interactions smooth and predictable.

## Manage Users Page (Admin)

### Purpose:

The Manage Users Page is designed for the Admin to monitor and control all user accounts in the Library Management System. This page allows Admin to view, edit, or delete user information, check borrowing history, and ensure that users are complying with library rules. Proper management of users is essential for maintaining the integrity and smooth operation of the library.

### Components & Detailed Explanation:

#### 1. User List Table:

- Displays all registered users in a tabular format.
- Columns include Name, Email, Membership Status, Number of Borrowed Books, and Actions.
- Example: “John Doe | john@example.com | Active | 3 Books | Edit/Delete/View History.”

#### 2. Edit User Button:

- Allows Admin to modify user details like Name, Email, or Membership Status.
- Ensures that user information is up-to-date and accurate.
- Example: Changing a user’s status from “Inactive” to “Active” after verification.

#### 3. Delete User Button:

- Enables Admin to remove a user account from the system.
- Important for cases such as expired membership or fraudulent accounts.
- Warning or confirmation pop-up prevents accidental deletion.

#### 4. View Borrow History Button:

- Displays all books previously borrowed by the user.
- Includes borrow date, return date, and overdue status.
- Helps Admin monitor borrowing behavior and manage overdue books.
- Example: “User Jane Smith borrowed 5 books in the last 3 months; 1 book returned late.”

#### 5. Search & Filter Options:

- Admin can search users by Name, Email, or Membership Status.

- Filters help quickly locate specific users or groups (e.g., Active, Inactive, Overdue Users).

#### **6. Notifications / Alerts:**

- Admin receives alerts for overdue books, pending approvals, or user issues.
- Keeps Admin proactive in managing library operations.

#### **User Flow (Admin Perspective):**

- Admin logs in → Navigates to Manage Users page → Searches or filters user list → Selects a user → Edits details, deletes account, or views borrow history → Updates reflect in real-time.

#### **Design & Usability Considerations:**

- Clean tabular layout for quick comprehension.
- Action buttons (Edit/Delete/View) clearly visible and distinct.
- Use of color coding for membership status or overdue users.
- Responsive design for both desktop and tablet usage.
- Proper validation and confirmation messages for critical actions like deleting accounts.

#### **Real-Life Example Scenario:**

- Admin notices that a user “Mark Lee” has multiple overdue books. Admin checks borrow history → Sends a reminder → Updates membership status if necessary.
- New user “Sara Khan” registers → Admin verifies details → Sets membership status to Active → Sara can now borrow books.

#### **Summary:**

- The Manage Users Page empowers Admins to efficiently control user activities, maintain accurate records, and enforce library policies.
- Its design prioritizes usability, clarity, and operational efficiency, ensuring smooth management of library users.

# Book Details Page

## Purpose:

The Book Details Page provides users with complete information about a specific book in the Library Management System. It helps users make informed decisions about borrowing by displaying book metadata, availability, and borrowing history. This page ensures transparency and aids in better library management for both users and Admins.

## Components & Detailed Explanation:

### 1. Book Information Section:

- Displays key details of the book: Title, Author, Category, Publisher, Year of Publication, and ISBN.
- Example: “Title: Data Structures and Algorithms | Author: John Smith | Category: Computer Science | Publisher: TechBooks | Year: 2021 | ISBN: 1234567890.”
- Helps users verify if the book matches their requirements.

### 2. Availability Status:

- Shows whether the book is available, borrowed, or reserved.
- Example: “Available: 3 copies” or “Currently Borrowed: Expected return 28th Oct.”
- Real-time updates ensure users know the current status.

### 3. Past Borrowers List:

- Displays a brief history of previous borrowers (optional anonymized).
- Helps Admin track popularity and borrowing trends of the book.
- Example: “Previous borrowers: User1 (Returned), User2 (Overdue), User3 (Returned).”

### 4. Borrow Button:

- Allows user to request to borrow the book if copies are available.
- Clicking triggers a borrow request which goes to Admin for approval.
- Disabled if no copies are available.

### 5. Return / Cancel Request Button (Optional):

- If the user has already borrowed the book, provides option to mark as returned (depending on system workflow).
- Allows canceling a pending borrow request.



## 6. Related Books / Recommendations Section (Optional):

- Shows similar or recommended books based on category or author.
- Enhances user experience and encourages further exploration.
- Example: “Recommended: ‘Advanced Algorithms’, ‘Programming in C++’.”

### User Flow:

- User searches or selects a book → Book Details page opens → Reviews book information → Checks availability → Clicks Borrow (if available) → Borrow request sent to Admin → Confirmation or error message displayed.

### Design & Usability Considerations:

- Clean layout with sections clearly separated.
- Availability status highlighted using color codes (Green: Available, Red: Not Available).
- Easy navigation back to search results or dashboard.
- Responsive design for mobile and desktop usage.
- Security: Only registered users can request borrow; Admin approvals are required.

### Real-Life Example Scenario:

- User wants to borrow “Introduction to Programming”. They open Book Details page → Check availability (2 copies available) → Click Borrow → Request sent to Admin → Admin approves → User receives notification → Picks up book from library.
- If all copies are borrowed, Borrow button is disabled and user can request notification when available.

### Summary:

- The Book Details Page provides complete information and control for users regarding library resources.
- Its design ensures clarity, usability, and efficiency, helping users make informed borrowing decisions while supporting library management processes.