

# Library Management System - Project Documentation

## Project Overview

A comprehensive web-based Library Management System for Mount Carmel College with separate interfaces for students and administrators, built using modern web technologies.

## Technical Stack

- **Frontend:** HTML5, CSS3, JavaScript, Bootstrap 5
- **Backend:** PHP
- **Database:** MySQL
- **Icons:** Font Awesome

## Key Features

### Student Portal (index.html → Student\_login.html)

- **Secure Authentication System**
- **Personalized Dashboard** with borrowing statistics
- **Advanced Book Search** by title, author, or category
- **Book Categories:** UG/PG Textbooks, Fictional/Non-Fictional
- **Account Management** with borrowing history
- **Real-time Availability Status**

### Admin Portal (Admin\_login.html)

- **Comprehensive Dashboard** with library analytics
- **User Management** (Add/Edit/Delete users)
- **Book Inventory Management**
- **Reporting System** (Usage, Inventory, User reports)
- **System Configuration** settings

## User Roles & Access

### Student Access

- **URL:** index.html
- **Username:** admin
- **Password:** password123

- **Features:** Book search, borrowing, account management

### Admin Access

- **URL:** Admin\_login.html
- **Username:** admin
- **Password:** password123
- **Features:** Full system control, user management, reports

### System Modules

#### 1. Authentication & Security

- Session-based login system
- Role-based access control
- Secure logout functionality

#### 2. Book Management

- Categorized book listing (UG/PG, Fiction/Non-Fiction)
- Availability tracking
- Search and filter capabilities

#### 3. User Management

- Student account management
- Role assignment (Student/Faculty/Staff)
- Status tracking (Active/Inactive)

#### 4. Reporting & Analytics

- Library usage statistics
- Inventory reports
- User activity summaries
- Visual charts and graphs

#### 5. System Configuration

- Library settings customization
- User preference management
- Notification systems

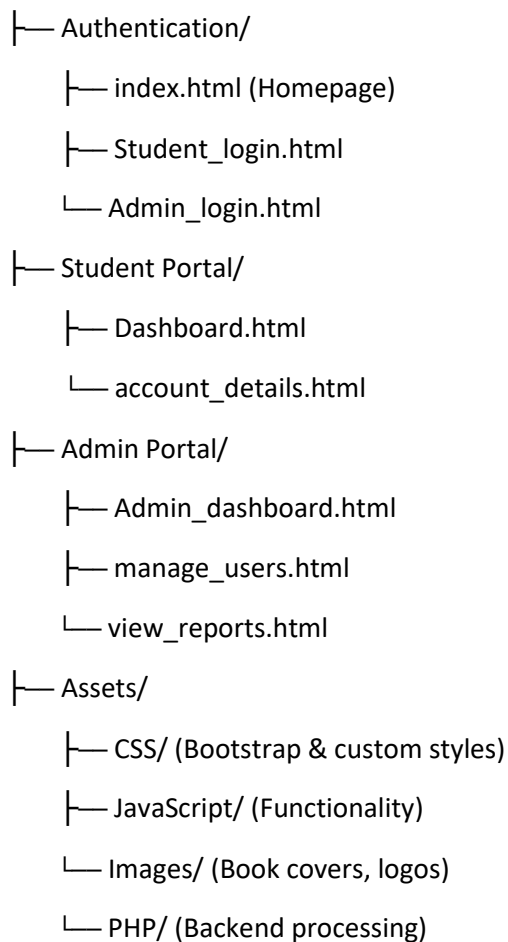
### UI/UX Features

- **Responsive Design** compatible with all devices

- **Modern Dashboard** with statistical cards
- **Intuitive Navigation** with sidebar menus
- **Visual Book Covers** with availability badges
- **Activity Feeds** for recent actions

## Project Structure

Library\_management\_project/



## Installation & Setup

1. Extract project files to web server directory
2. Ensure PHP support is enabled
3. Import database schema (if required)
4. Update database credentials in config files
5. Access via web browser

### Key Highlights

- **Institutional Branding** with MCC identity
- **Real-world Library Features** mirroring actual college requirements
- **Scalable Architecture** for future enhancements
- **Professional UI/UX** following modern design principles