FS PROJECT MODULES

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PROJECT TITLE -
LIBRARY MANAGEMENT SYSTEM

PROPOSED 5 MODULES OF PROJECT :

1. User Management & Authentication Module
Features:
 - Login and Registration (Student, Librarian, Admin)
 - Role-based access control (JWT authentication)
 - Profile management (basic details, password reset, etc.)

Frontend (React + Redux Toolkit): Role-based dashboards and login forms
Backend (Spring Boot): Authentication APIs, JWT-based session handling
Database: Users table with role field

STATUS : DONE

2. Book Management Module
Features:
 - Add, Update, Delete, and View Books
 - Categorize books by subject/genre
 - Search and filter books

Frontend: Book list, add/update forms, search bar
Backend: CRUD APIs for books
Database: Books table with details (title, author, ISBN, category, availability)

STATUS : PENDING

3. Borrow & Return Management Module
Features:
 - Borrow a book (issue to student)
 - Return book and update availability
 - Track due dates and penalties (basic)

Frontend: Borrow/Return forms, issue history
Backend: APIs to handle borrow/return transactions
Database: Transactions table (student ID, book ID, borrow date, return date, fine)

STATUS : PENDING

4. Search & Catalog Module

Features:
 - Search books by title, author, or category
 - Display catalog of available books
 - Advanced filter (by availability, genre)

Frontend: Search bar, catalog UI with filters
Backend: Search/filter APIs
Database: Query on Books table

STATUS : PENDING

5. Admin & Reports Module

Features:
 - Manage users (approve/block students, manage librarians)
 - View reports (issued books, overdue books, fines collected)
 - Monitor system activity logs

Frontend: Admin dashboard with reports and controls
Backend: APIs for reports and user management
Database: Logs & Reports table

STATUS : PENDING