

✓ Project Title:

Library Management System (LMS)

✓ Project Concept / Overview:

The Library Management System is software that automates and manages the day-to-day operations of a library. It helps librarians and students track books, manage inventory, issue/return books, and maintain a searchable catalog. The goal is to reduce manual work, eliminate errors, and improve efficiency.

✓ Scope:

- Book management (add, update, delete books)
- User management (admin, librarian, student)
- Book issuing and returning
- Fine calculation for late returns
- Search functionality (by title, author, category)
- Inventory and availability status
- Report generation (monthly issue/return logs)

✓ Modules / Features:

1. Admin Panel

- Add/remove librarians
- View system logs and reports
- Manage all users and books

2. Librarian Panel

- Add/edit/delete books
- Issue/return books
- Track due dates and fine

- Register new members

3. Student Panel

- Login to check issued books
- Search and request books
- View history and due dates

4. Database

- Stores user info, book records, issue history, and fines

✓ Stakeholders:

- **Library Administrator** – Manages users and system.
- **Librarian** – Handles issuing, returning, and cataloging.
- **Students/Users** – Search, borrow, and return books.
- **Developers** – Design, develop, and maintain the system.

✓ Non-Functional Requirements:

- User-friendly interface
- Data security and access control
- Fast search and response time
- Backup and recovery system

✓ Possible Technologies:

- **Frontend:** HTML, CSS, JavaScript, Bootstrap
- **Backend:** PHP / Python (Flask or Django) / Java
- **Database:** MySQL / SQLite
- **Optional:** Tkinter (for desktop app), Laravel (PHP framework)