



## SYNOPSIS

**ON**

**Project Name:-**

**LIBRARY MANAGEMENT SYSTEM**

**Submitted By:**

RINKU-L-2115000842

VIJAY KUMAR-N-2115001112

ARPIT GUPTA-M-2115000201

Submitted To:

**Sanjay Madaan sir**

DEPARTMENT : Btech (CSE)



## **Title of the Project: LIBRARY MANAGEMENT SYSTEM**

### **➔ Objective:**

The main objective of this project is to create a comprehensive library management system that streamlines the organization and accessibility of library resources, improving the overall efficiency of library operations.

### **➔ Scope:**

The project will cover the management of library materials, patron records, check-in/check-out processes, and reporting. It will not cover the physical cataloging of books or extensive hardware maintenance.

### **➔ Methodology:**

We will use a combination of programming languages, such as Python and SQL, along with library management software for database management. The project will run on standard computer hardware.

### **➔ Proposed System:**

The proposed system will include a user-friendly interface for both librarians and patrons. It will allow librarians to add, edit, and remove items from the library collection, manage user accounts, and track borrowing history.

### ➔ **Features:**

- 1) User authentication and role-based access control
- 2) Cataloging and search functionality
- 3) Inventory management
- 4) Patron account management
- 5) Check-in/check-out automation
- 6) Reporting and analytics

### ➔ **Implementation plan:**

Requirements analysis and system design (Days: 3-4)  
Frontend development and user interface design (1 week)  
backend development (2 week)  
Testing and debugging (3 days)  
User training and system deployment (2)  
Post-launch support and maintenance (Ongoing)

## ➔ **Team Members:**

**Project Manager: [ Mr. SANJAY MADAAN SIR]**

**Frontend Developer, Backend Developer, Tester  
and Quality Assurance ([RINKU], VIJAY KUMAR,  
[ARPIT GUPTA] )**

## ➔ **Resources Required:**

Computers and development software

Database management software

Internet connection

Library management software (if applicable)

## ➔ **References:**

[List relevant books, research papers, or online resources]

## ➔ **Expected Outcomes:**

We aim to deliver a functional library management system with a user-friendly interface and

comprehensive features, enhancing the efficiency of library operations and improving user experience.

➔ **Project Supervisor:**

Mr. Sanjay Madaan Sir

➔ **Conclusion:**

The Library Management System project aims to address the challenges faced by libraries in efficiently managing their resources. With a well-defined scope, clear objectives, and a dedicated team, we are confident in achieving a successful outcome.