

Library System

Mr. Sahil Gajbhiye and Miss. Mithila Patrange
Prof. Yamini Laxane and Prof. Bhagyashree Kumbhare

Department of Master of Computer Applications
Smt. Radhikatai Pandav College of Engineering, Nagpur, Maharashtra, India

Abstract: *The "Library System" project aims to develop a comprehensive and user-friendly digital solution that automates the daily operations of a traditional library. With a modular design, the system manages book circulation, user membership, fines, and reporting efficiently. The objective is to reduce manual labour, eliminate human errors, and increase the accessibility of library services.*

The system comprises multiple integrated modules, each handling specific tasks such as book management, member registration, issue and return tracking, fine management, and report generation. Security and scalability are key aspects, supported by a robust backend and user-friendly frontend. This paper explores the system's architecture, implementation, and performance, demonstrating how such automation significantly enhances library productivity.

Keywords: Library Automation, Book Management, Member Management, Fine Calculation, Authentication, Report Generation, Database Management

