LIBRARY MANAGEMENT SYSTEM

PROJECT REPORT

Submitted to

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ABSTRACT

A Library Management System (LMS) is a software solution developed to automate and manage daily library operations. It replaces the traditional manual system with a computerized approach, ensuring efficiency, accuracy, and security.

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CHAPTER 1: INTRODUCTION

Libraries are essential academic resources that require proper management. Manual systems are inefficient and error-prone. The Library Management System helps in managing books, members, and transactions effectively.

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CHAPTER 2: PROBLEM STATEMENT

The traditional library system relies on registers and paperwork. This leads to slow processing, data redundancy, and difficulty in maintaining records.

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CHAPTER 3: OBJECTIVES

The main objective is to automate library operations, reduce paperwork, ensure data accuracy, and provide fast access to information.

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CHAPTER 4: LITERATURE REVIEW

Various researchers have studied library automation systems. These systems improve efficiency, reduce human error, and enhance user satisfaction.

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CHAPTER 5: SYSTEM ANALYSIS

System analysis includes feasibility study and requirement analysis. The project is technically, economically, and operationally feasible.

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CHAPTER 6: SYSTEM DESIGN

The system design includes architecture design, database design, and interface design. A client-server architecture is used for efficient operation.

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CHAPTER 7: TECHNOLOGY USED

The system uses modern technologies such as Java/Python, MySQL database, HTML and CSS for frontend, and Windows/Linux OS.

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CHAPTER 8: IMPLEMENTATION

The implementation phase converts system design into executable code. Each module is tested individually for proper functionality.

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CHAPTER 9: TESTING AND RESULTS

Testing ensures the system meets user requirements. Unit testing, integration testing, and system testing are performed to ensure reliability.

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CHAPTER 10: CONCLUSION AND FUTURE SCOPE

The Library Management System successfully automates library operations. Future enhancements include barcode scanning and online access.

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