**Library Management System Project**

**Developed By: Ankush Lagwal**

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**Project Overview:**

The **Library Management System** is a robust desktop application designed to manage library operations efficiently. Developed using Java programming language, this project is implemented on the Eclipse IDE and uses MySQL Workbench as the database management system. The project aims to streamline library functions such as book inventory management, user registrations, book issues, and returns.

**Technical Details:**

Programming Language: Java

Integrated Development Environment (IDE): Eclipse

Database Management System (DBMS): MySQL Workbench

**Database Configuration**

Localhost Username: root

Localhost Password: ankushlagwal123

**Project Folder Structure:**

Main Project Folder: LibraryManagementSystem :Contains the entire project setup, including code and database backup.

Code Folder: src folder contains the compiled Java code.

Database Backup Folder: LibManSysJava BackupDB contains the backup of the MySQL database used in the project. The backup ensures the database can be restored and reused whenever required.

**Project Features:**

Book Management: Add, update, delete, and search for books in the library.

User Management: Manage user registrations and maintain user records.

Issue and Return Records: Keep track of book issues and returns, including due dates.

Authentication System: Secure login for administrators and library staff.

Database Backup and Restore: Ensure data integrity and easy recovery.

**Tools and Technologies Used:**

Java: For application development and functionality implementation.

Eclipse IDE: For project development and debugging.

MySQL Workbench: For designing and managing the database schema.

Localhost Server: Configured with username root and password ankushlagwal123.

**Purpose and Objective:**

The Library Management System is designed to reduce manual efforts and enhance library operations. It ensures efficient management of library resources, reduces redundancy, and improves record-keeping accuracy.

This project reflects advanced programming skills, database management expertise, and a keen understanding of system design. It is an excellent demonstration of applying technical knowledge to solve real-world problems.