Rubric for Library Management System (LMS) Assignment

Student Name: _____ Total Marks: _____ /100

Roll No.: _____ Section: _____

No	Evaluation Criteria	Description	Marks
1	Multi-Storage Data Persistence	Correct implementation of both File-based and SQL database storage methods. Seamless switching between storage methods during runtime.	10
2	File-Based Storage	Efficient file handling techniques. Data is well-structured, readable, and organized (e.g., `.txt`, `.csv`).	10
3	SQL Database Integration	Correct integration and CRUD operations using SQL database (MySQL, PostgreSQL). Synchronization during data retrieval, update, and deletion from the SQL database.	15
4	Input Validation and Deletion Logic	Fixed all input validation issues from Task 1, ensuring unique IDs and correct data handling. Proper deletion logic (cannot delete users with active loans or loaned books).	10
5	Error Handling	Proper error handling for file handling, SQL connection issues, and CRUD operation errors. Clear and user-friendly error messages for failed operations.	10
6	Search and Sorting Functionalities	Implementation of search functionality for books and users by different attributes (e.g., `Book ID`, `User ID`). Implementation of sorting functionality for books and users by criteria (e.g., alphabetical order).	10
8	Loan Extensions and Fines	Proper calculation of late return fines and implementation of loan extension requests.	10
9	Program Execution and User Interface (UI)	Smooth program execution and a clear, intuitive menu and user interface. Proper code documentation with meaningful comments.	5

Total Marks: 80

TA Comments: _____