

# Abstract

## (Library Management System)

**Course Code:** CS254

**Course Title:** DBMS LAB

**Semester:** B. Tech 4<sup>th</sup> Sem

**Section:** S1

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### Brief Description:

This Project is based on a real Library Management system and the real workings of a library, it consists of facilities to borrow, return and fee payment at the library. The main way in which a user can access these facilities is using our website which provides login, searching, borrowing, returning books. Users can also pay the fine on the website for late returns. The search facility gives the user all the information about the book if given the correct info on the book.

Front-End: A website that has several routes which can be navigated using the nav-bar. Styled using CSS and functionality is given by JavaScript.

Back-End: The server side scripting is done using EXPRESS.js and NODE.js, the DBMS is made with MySQL. (Note: might use REACT down the line if needed)

### Key Features:

1. Login facility
2. Search Book Facility
3. Borrow or Renew Book facility
4. Return Book Facility
5. Fine Payment Facility

### Software Specifications:

- Frontend: HTML, CSS, JavaScript
- Backend: NODE.js, Express.js, MySQL

## References:

1. <https://www.geeksforgeeks.org/use-case-diagram-for-library-management-system/>

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