Final Report
(Library Management System)

Course Code: CS254 **Course Title:** DBMS Lab

Semester: B. Tech 4^{th} Sem **Section:** S1

Academic Year: 2020-21 **Course Instructor:**Dr. Annappa B and Mr. Sharath Yaji

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1 Abstract

Brief Description:

Front-End: A website that has several routes which can be navigated using the navbar. 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.

2 Introduction

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.

3 ER Diagram

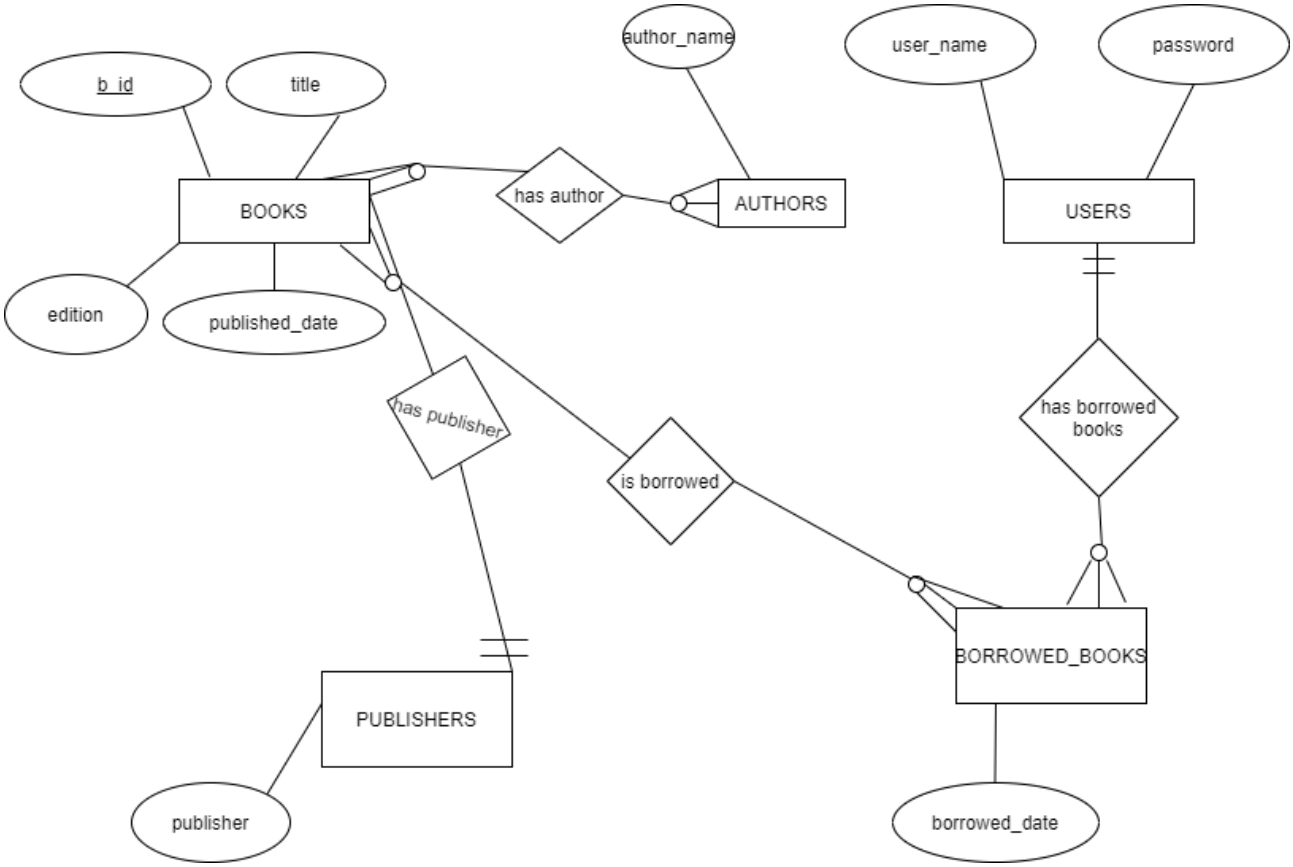

Figure 1: ER-DIAGRAM

4 Source Code

GitHub Repository Link:

1. https://github.com/chethan-hebbar/CS255-Lib-Management-System
2. /views folder contains all the .ejs routes and HTML code.
3. app.js contains the back-end server script and the database interaction.
4. /public folder contains the CSS file and images.

5 Results

Figure 2: Sign Up

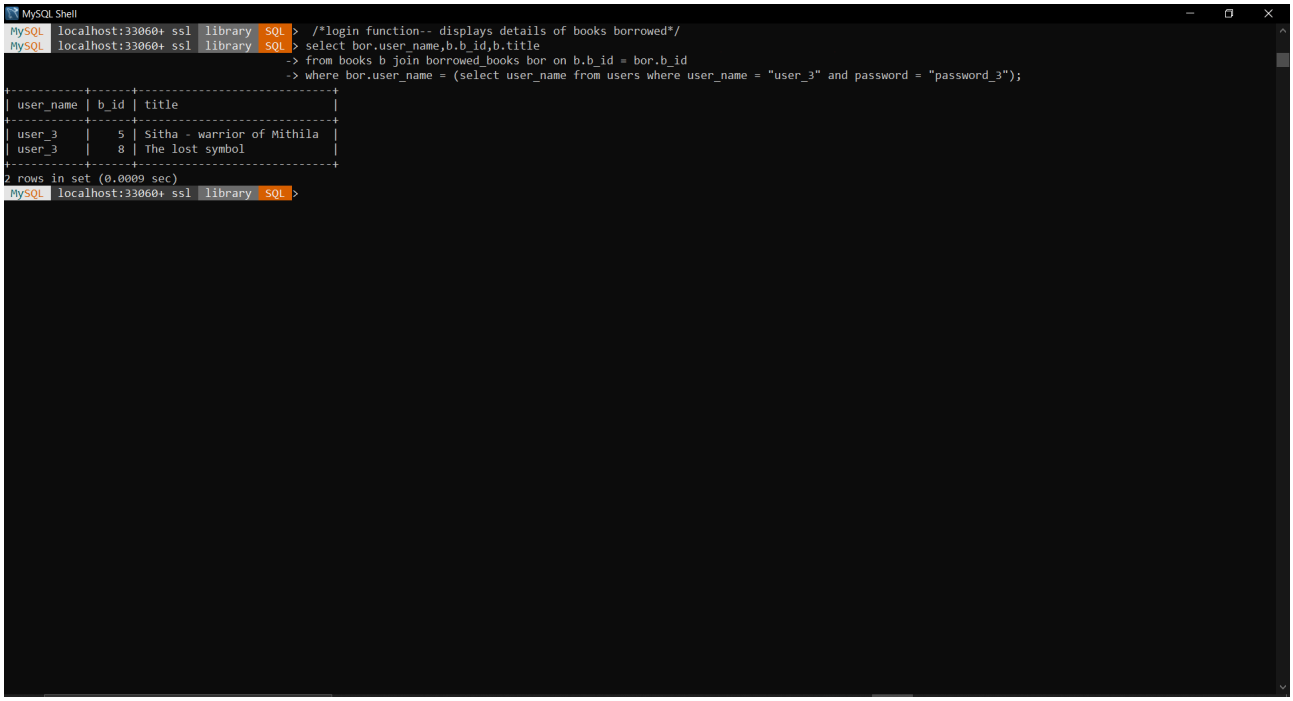

Figure 3: Log In

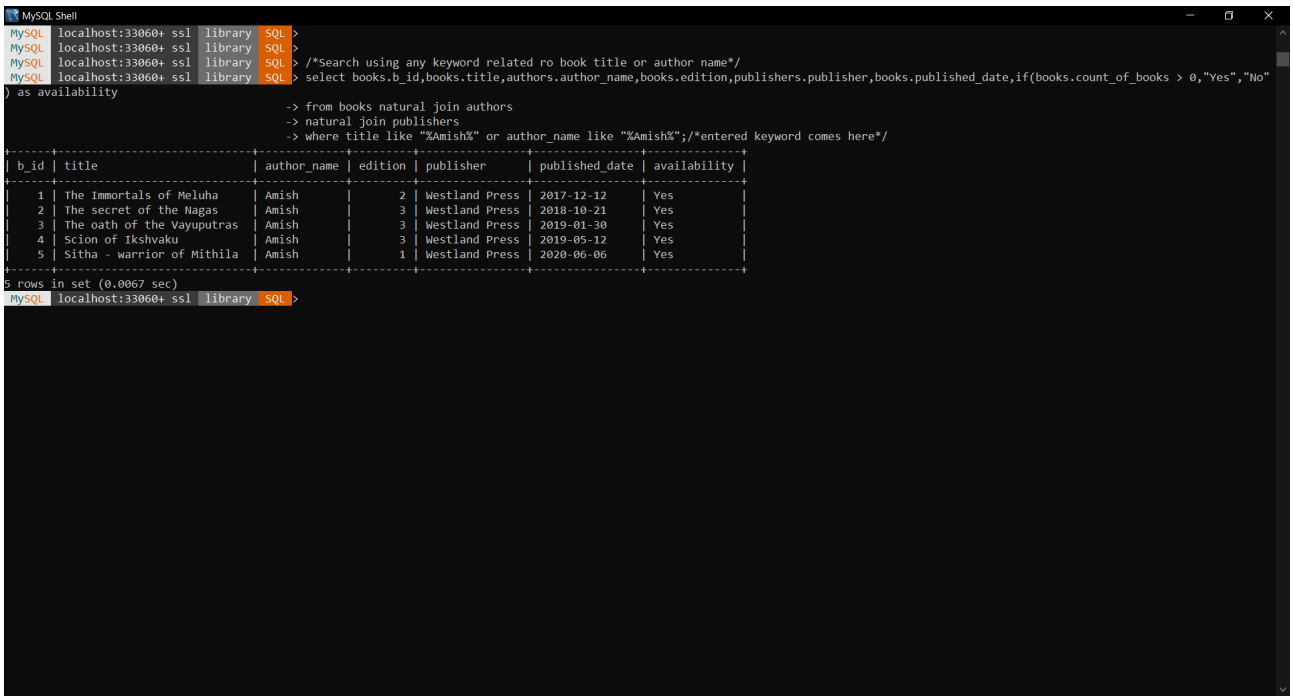

Figure 4: Search

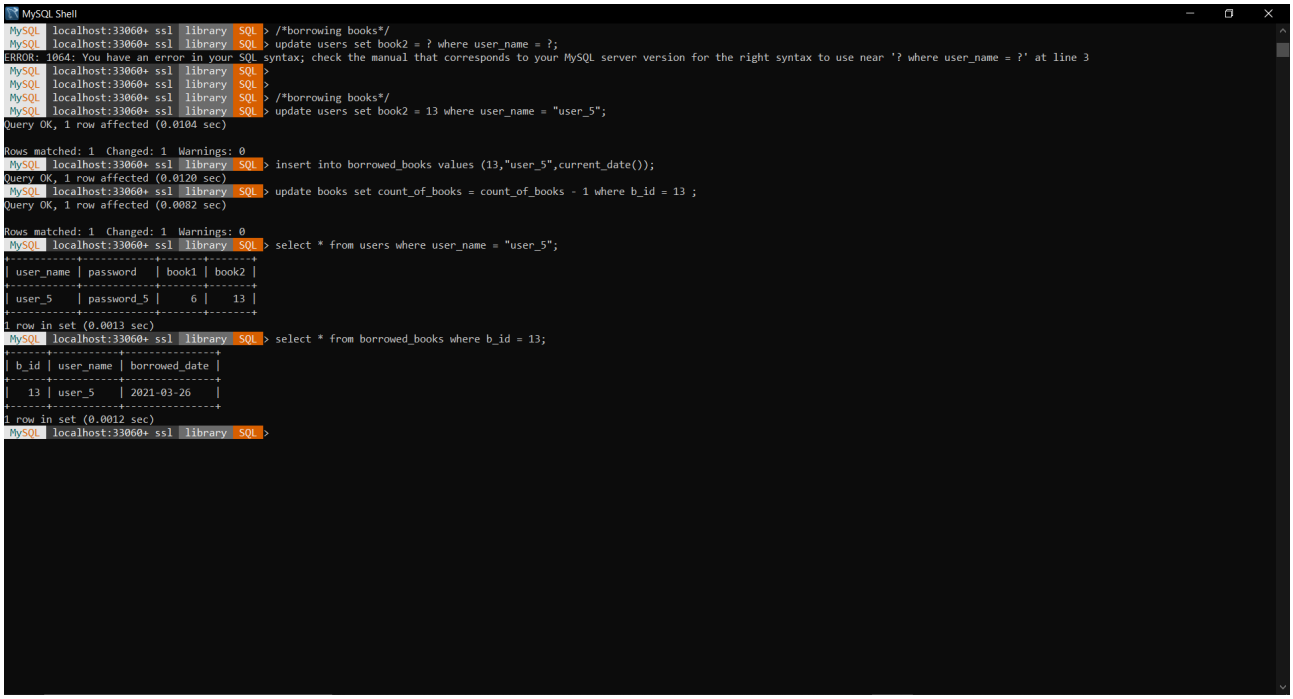

Figure 5: Borrow

6 References:

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

2. https://github.com/chethan-hebbar/CS255-Lib-Management-System

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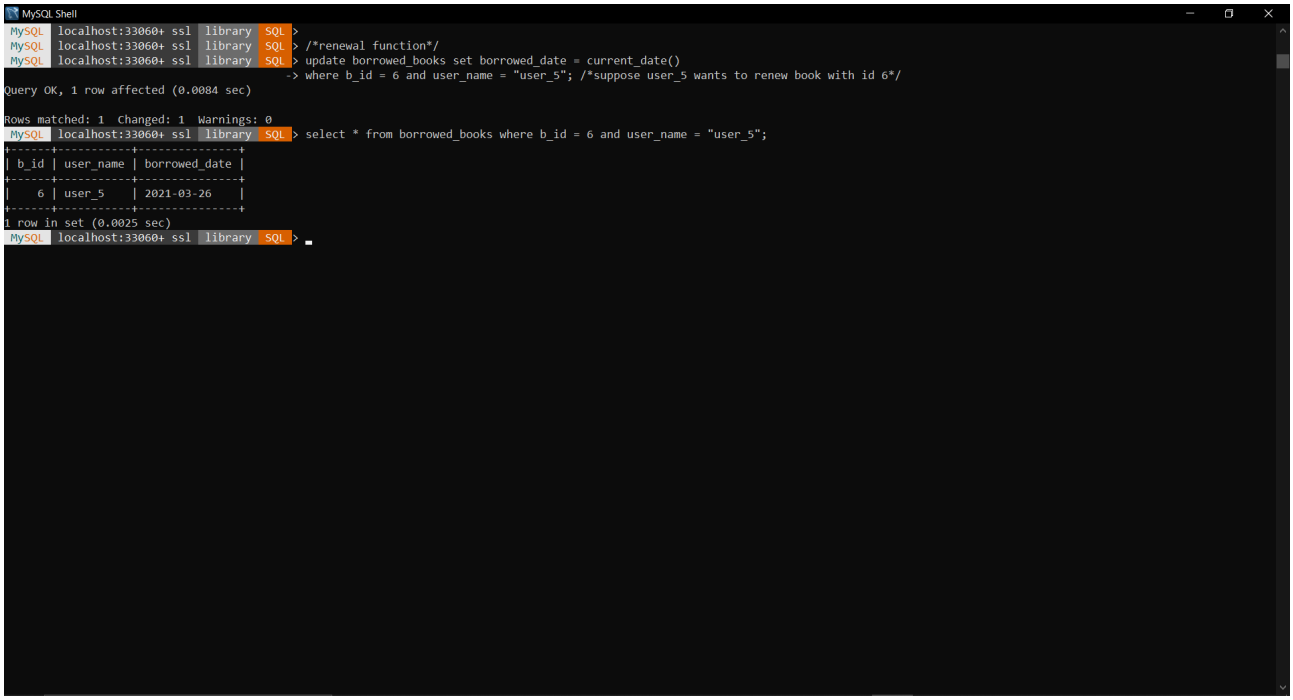

Figure 6: Renew

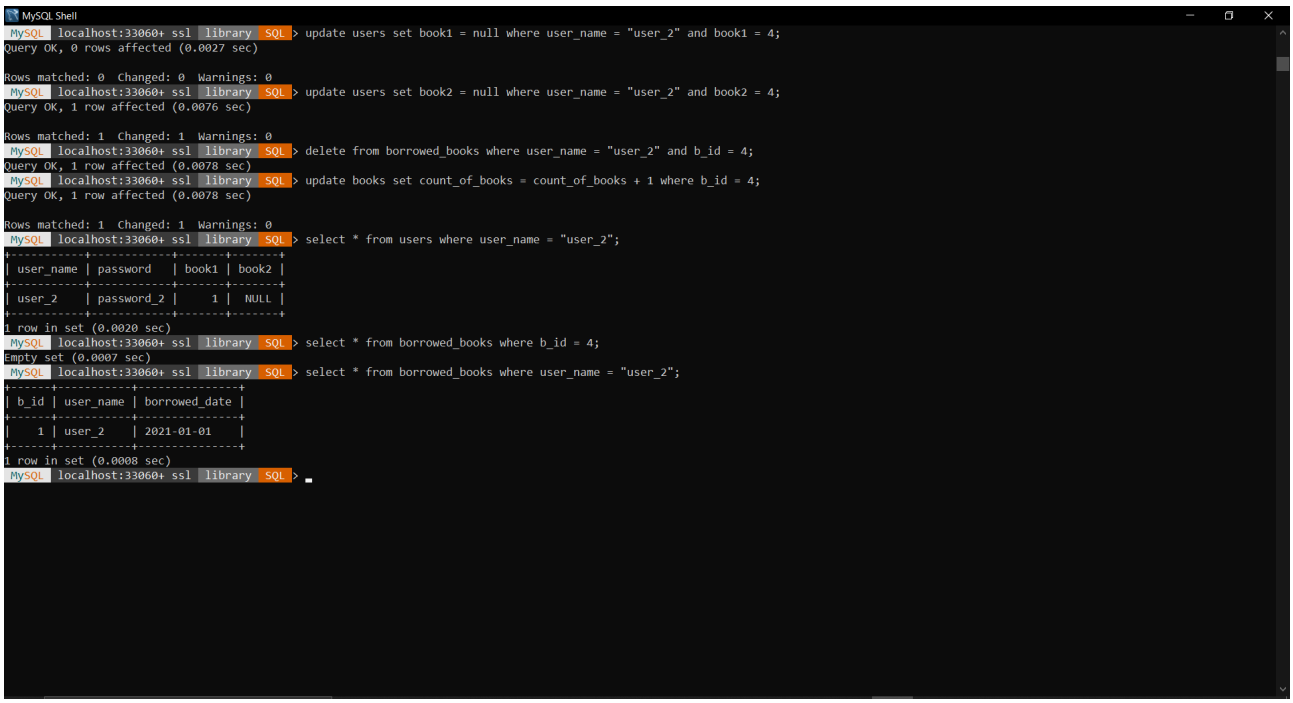

Figure 7: Return