NATIONAL INSTITUTE OF TECHNOLOGY,

DELHI

CSB202 Project

Project by: Moulik Sharma, Utkarsh Gupta, Dhruv Tyagi

Roll number: 211210039, 211220061, 211220018

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Submitted to: Dr Shelly Sachdeva

CSB202 Project
Library Management System

Introduction

Database Management is the core of modern data, as handling and managing data is the key to making exponential progress in today's world. Here, the undersigned students in 2nd year :

1) **Moulik Sharma (211210039)**
2) **Utkarsh Gupta (211220061)**
3) **Dhruv Tyagi (211220018)**

have completed a project on the Library Management System which cites all the information related to the items, staff, and other things in the Library.

Case Study

The Case Study titled **Library Management System** is library management software for the purpose of monitoring and controlling the transactions in a library. This case study on the library management system gives us complete information about the library and the daily transactions done in a Library.

a) The library maintains reports that consist of issues/return, book_no, reg_no, and user_id which is amnaged by staff consisting of name and id. The staff logins using an authentitcaiton system which requires a login_id and password.
b) The staff keeps track of readers having id, email, name, address, and phone_no.
c) The staff also maintains books having autor_no, ISBN, title, category, price each of which is published by a publisher whose id, year, name is maintained corresponding to each book.
d) Readers can return/reserve books that stamps with issue date and return date. If not returned within the prescribed time period, it may have a due date too.

Aim

The main objective of the Project on Library Management System is to manage the details of Student, Books, Issues, Librarians, and Member. It manages all the information about Student, Address, Member, Student. The project is totally built at the administrative end, and thus, only the administrator is guaranteed access. The project aims to build an application program to reduce the manual work for managing the Student, Books, Address, Issues. It tracks all the details about the Issues, Librarian, and Member.

Functionalities

1) User Module:

In this module, students can check the availability of the book. The following are the submodule in the user module. Book return: Here, students will return the books to the library…
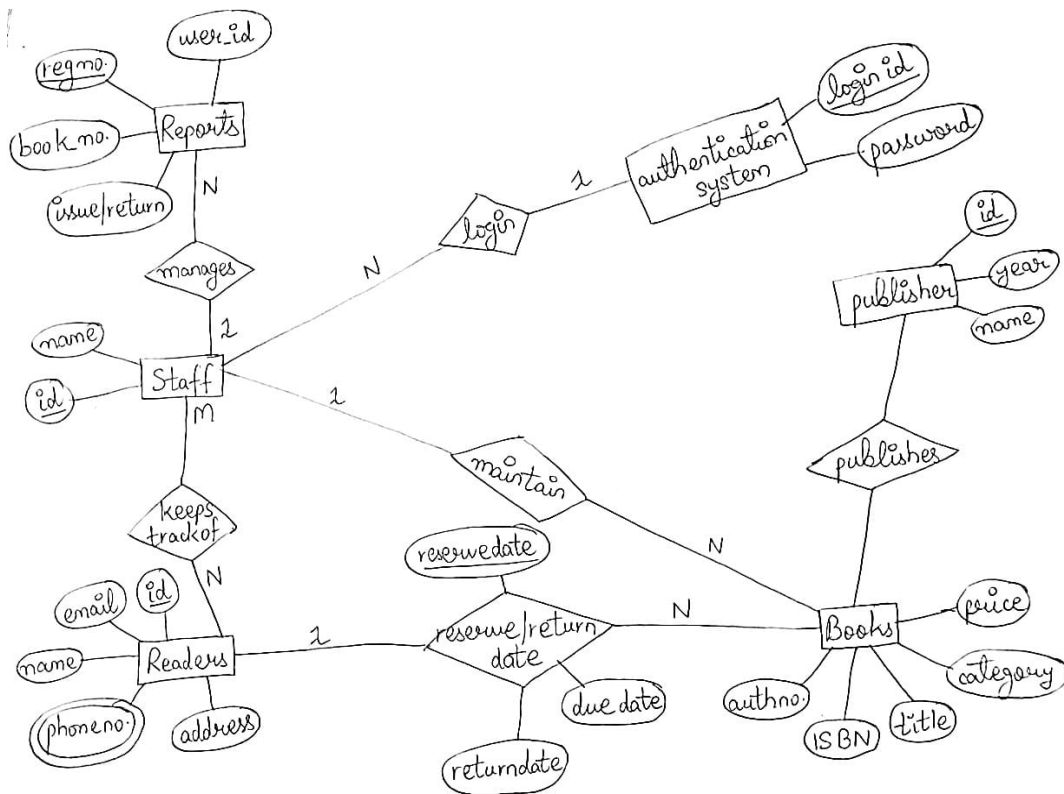
2) Administrator Module:

This is the main module in the proposed project. The administrator can read and write information about any member. The administrator can also update, create and delete the record of membership as per requirements and implementation plans. The following are the submodule in the administrator module:

- **Register student:** Allow the administrator to register new students and update the student records.
- **Book details:** Allow the administrator to enter book details.
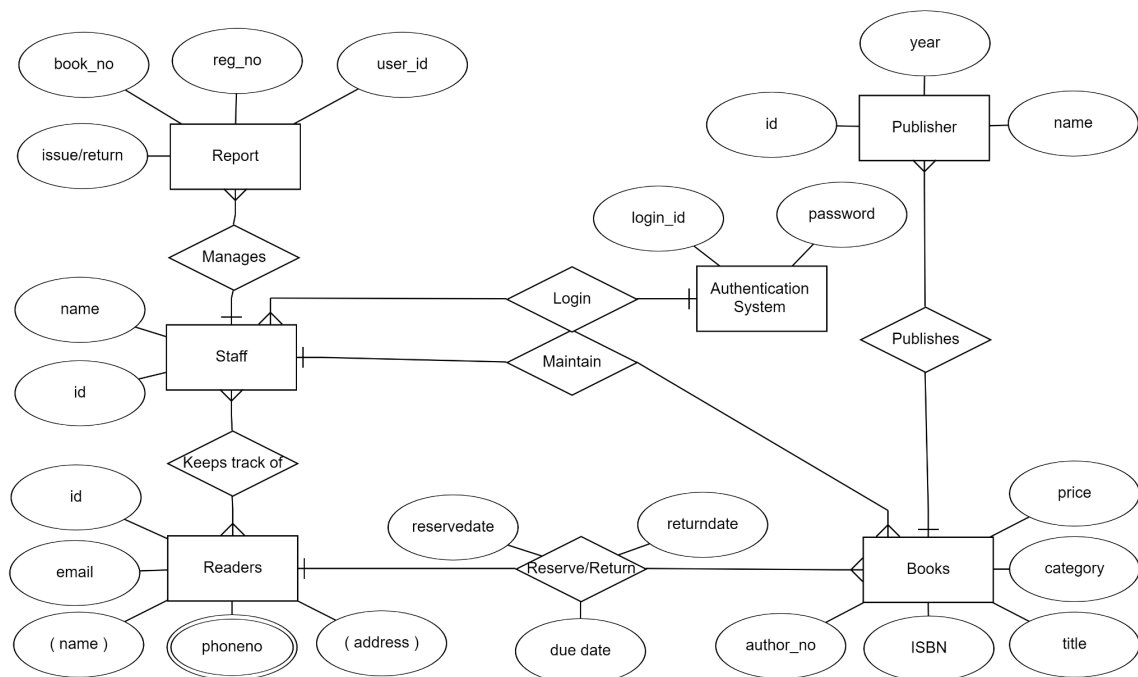- **Book issue:** Here administrator issues the books to the student from the library.

Future scope of the project

We can consider much future scope of this application. The following are some of them: Online library use can be a good feature of the Library Management system. An advanced fine payment system can be added. An inventory system can be used to maintain the books in the library.

ER Diagram

ER Diagram using ERDPlus Software

THANK YOU!