
Project Report

For

Library Management System

Database Design (CS6360)

Done by

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1. User Instructions

The library management system is a system that allows users to create accounts in a library where they can check in books and pay fines for overdue books. Instructions to use is briefly explained in USER MANUAL.

1.1 New Borrower Page

This page allows a new user to register into the system using his/her basic information. Once the registration is successful which helps the librarian to access the borrower details.

1.2 Search Page

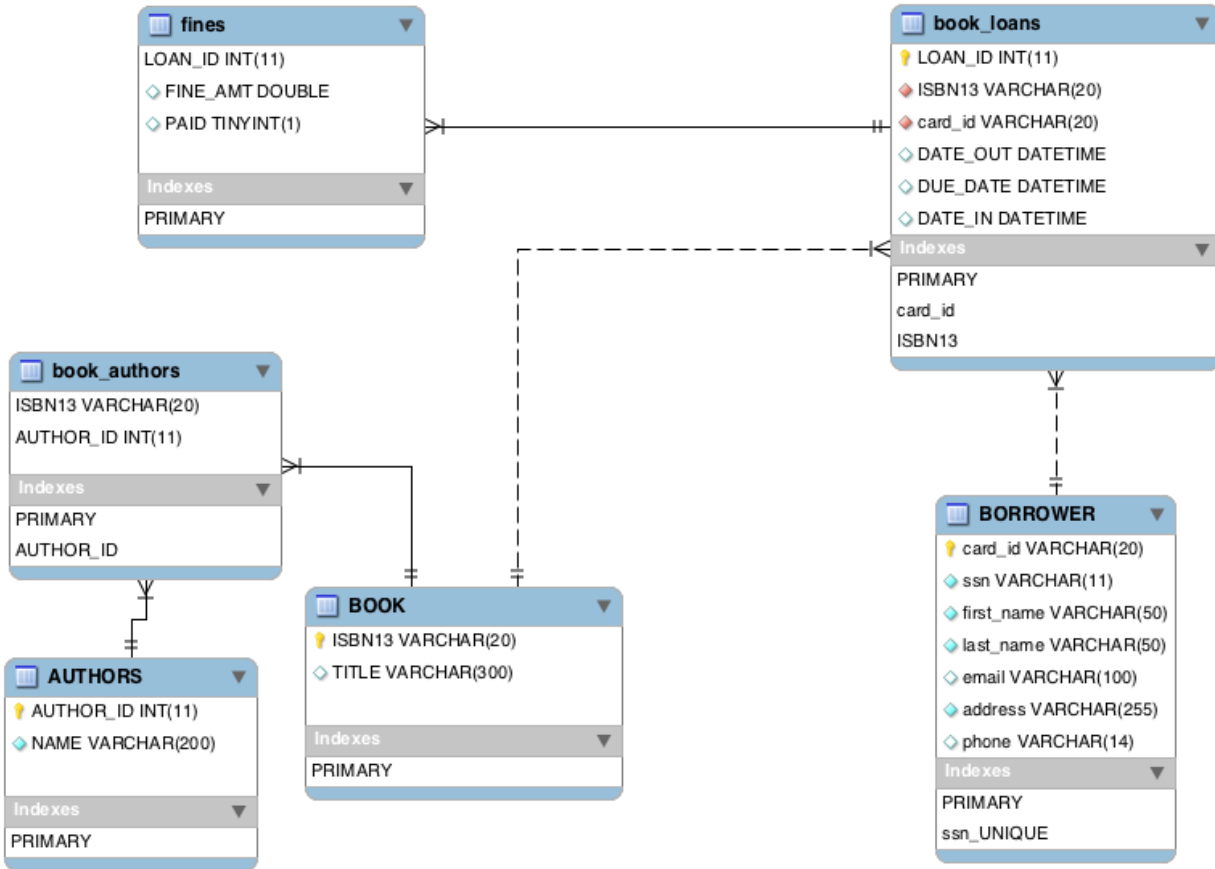
The search module allows a user to search for a book by using the combination of either the book's author name or book id(ISBN13) or title. The user can select a book to check out. The user can check out a maximum of 3 books at a time.

1.3 Check in Page

The check in module lists the books checked out by the user. The user can't check in the book without paying the fine if he has any.

2. Database Design

Database Design is done as mentioned in the description page as I didn't find any flaws with the design and all functionalities are implemented without flaws from that schema. And it is implemented as shown in the EER Diagram below. EER Diagram included to clearly show the table description and the relations between the 6 tables.



3. Data Cleaning

Most of the data cleaning is done using python code and splitted using R script.

4. Technical Dependencies

In order to run PHP, we need a server that supports PHP. On most servers the default extension for PHP files is .php. For this we install a web server called Apache and of course PHP. Just create the .php files, put them in the web directory and the server will automatically parse them for us. There is no need to compile anything nor do we need to install any extra tools. To get database connectivity, we also need MySQL server installed. And finally using any browser, navigate to 'htdocs' folder(files in this folder r accessible to web server) of MAMP application installation folder.