Library Management System

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<https://github.com/rvanama17/Database-Project-1>

03-22-2022

What is your application or business?

Library management system is a project which aims in developing a computerized system to maintain all the daily work of library. This project has many features which are generally not available in normal library management systems like facility of user login.

What data will you be storing?

Student records, book records, account details, managing employee, Librarian issuer name

What is the value of this data?

The value of this data is internal. It can be reflected in every term

Where will the data come from?

It will be an internal system. It has a facility of admin login through which the admin can monitor the whole system. It has a facility where student after logging in their accounts can see list of books issued and its issue date and return date.

Who will use this data?

This project of ours is being developed to help the staff of library to maintain the library in the best way possible and also reduce the human efforts.

**Relational Database Design Process:**

Five entities in my project are Book, users, student, transaction, borrowing.

Entity Book

|  |  |
| --- | --- |
| BookID | INT |
| BookTitle | Varchar(50) |
| Author | Varchar(50) |
| Publisher | Varchar(50) |
| PublishDate | Date |

Entity User

|  |  |
| --- | --- |
| UserID | INT |
| UserName | Varchar(100) |
| Gender | Varchar(5) |
| Email | Varchar(50) |
| ContactAddress | Varchar(50) |

Student Entity

|  |  |
| --- | --- |
| StudentID | Int |
| StudentName | Varchar(50) |
| StudentGender | Varchar(5) |
| StudentEmail | Varchar(50) |
| StudentAddress | Varchar(50) |

Transaction entity

|  |  |
| --- | --- |
| TranID | Int |
| TranName | Varchar(50) |
| BorrowID | Varchar(50) |
| ID | Int |
| TranDate | Date |

Report entity

|  |  |
| --- | --- |
| ReportID | int |
| TranID | int |
| ID | int |
| ReportDate | date |

**DATA SOURCES:**

**Book.csv**

**User.csv**

**Student.csv**

**Transaction.csv**

**Report.csv**