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| LIBRARY MANAGEMENT SYSTEM: DESIGN AND IMPLEMENTATION |

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| ABSTRACT |

This report describes our group's implementation of a library management system. We used the Entity-Relationship model to design a database that will store and organize the library's data. We have created the database using SQL and populated it with some sample data. The system can keep track of library cards, customers, librarians, library locations, books and the relationships between them. Using php Server Pages, we have created an Internet-based graphical user interface that allows customers and librarians to access the system remotely.

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| RELATIONAL DATABASE DESIGN |

Tables:

1. login

|  |  |
| --- | --- |
| ld | Password |
| varchar(15) | INT(5) |

1. Student\_details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student\_id | Student\_Name | Date\_of\_Birth | Department | Contact\_Number |
| varchar(15) | varchar(50) | date | char(10) | Varchar(10) |

1. Book\_Details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ISBN\_Code | Book\_Title | Language | No\_Copies\_Actual | No\_Copies\_Current | Category\_Name | Publication\_year |
| INT | Varchar(30) | Varchar(30) | INT | INT | Vartchar (20) | INT |

1. Borrower\_Details

|  |  |  |  |
| --- | --- | --- | --- |
| Borrower\_Id | Borrowed\_From | Return\_Date | ISBN\_Code |
| Varchar(15) | Date | Date | INT |

1. Shelf\_Details

|  |  |  |
| --- | --- | --- |
| Shelf\_id | Floor | ISBN\_Code |
| Varchar(10) | INT | INT |

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| Snapshots |