

**Software Development Lab project**

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Objective:

Our project is a simple library management system. The objective of this project was to make a useful software using Microsoft Access database basically for a librarian. By using this software a librarian can control the whole library information easily. He can add books, search books, update them or delete. He can also have information about the students who have library card. He can issue books to the students and receive and by that he can also know which books are currently available in the library and which are not.

Connection of database:

To connect this project to database at first we have to go to the control panel. Then in the Administrative tools we need to select odbc. There we have to select System DSN. Then clicking add And select Microsoft aceess(\*mdb). Then in the next window we have to type data source name and click select. Then we have to select the database file in which dish and folder it is saved. Then selecting the file name we need to click ok. So,there the database file will be connected.

Features of the project:

In our opening page after clicking next, then appears the log in window. Where we need to write correct User name and Password to access to the next window. The next window is our main menu which has the contents-

1. Books corner
2. Students corner
3. Transaction
4. About us

Books Corner:

If we choose the Books Corner, we will all the new features included books-

1. Add books
2. Update books
3. Show book list

In “Add book” window we can insert the book to database which we want by selecting the book name , author name, edition, book category and then clicking add.

In “Update book” window we can update any book from the list. for that we have to type the book name correctly then search it. After selecting the book we have to click update and the book will be updated in the database. We can also delete the selected book from the list by clicking delete.

In “Show book list” window we can see the all books in the database.

Students corner:

In Students corner we have the following features-

1. Add student
2. Update student
3. Show student list

In “Add Student” window we can insert the student to database which we want by filling the form perfectly and then clicking add.

In “Update Student” window we can update any Student information from the list. for that we have to type the student name correctly then search it. After selecting the student we have to click update and the student information will be updated in the database. We can also delete the selected student from the list by clicking delete.

In “Show Student list” window we can see the all students information in the database.

Transaction:

In “Transaction” window we have following two options-

1. Issue book
2. Receive book

In “Issue book” window we have to select student name whom a librarian want to issue book,then select the book name,then clicking search. After selecting the book name we have to click issue to isuue the book to the student. But the book has to be available in the library.

In “receive book” window we have to select student name and click seach. And the book under the student will be shown in tha table. After selecting the book we have to click receive and the book will be received.

Conclusion:

By doing this software development lab we have learnt how to make a database project. We have tried our level best to make our software helpful for the user. The project has been made by using Java language using netbeans project. We also could improve our graphics but for the shortage of time we couldn’t make it. Overall it was a very good experience for us while doing this project.