

Project Report
On
Library Management System(Linux)
MASTERS OF COMPUTER APPLICATIONS



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DECLARATION

I, Muskan Joshi, hereby declare that this project report titled "*Library Management System*" is original work carried out by me under the supervision of Mr. Navdeep Singh Sodhi. I further declare that this work has not been submitted to any other institute/university for the award of the degree of Master of Computer Applications.

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1. Introduction

Library management system is a software application used to manage the operations of a library, such as managing books, patrons, checkouts and returns. It is typically a database-driven where users can perform various tasks like searching, issuing, returning and updating records.

2. Software Requirements

Operating System:

- i. **Linux:** Ubuntu 20.04 LTS or later (or any modern Linux distribution) or CentOS Linux.
- ii. **Shell Environment:** Bash 5.0 or higher

Required Packages and Dependencies:

- iii. **Text Editor:** nano, vim, or any preferred command-line text editor
- iv. **File Permissions Tool:** chmod

3. PROJECT DESCRIPTION

STEP1: Creating a directory

Create a directory with proper permissions to ensure security.

STEP2: Create a file in the directory.

Create a file using touch command in the directory to write the code in it. Code is written in nano text editor.

STEP3: Run Program

Then after all the procedure, execute the program.

4. IMPLEMENTATION:

```
#!/bin/bash
#Library Mangaement system
echo "Please enter the name of the library"
read libraryName
mkdir $libraryName
touch $libraryName/books/bookList.txt
touch $libraryName/students/studentList.txt
echo "your library $libraryName has been created"
```

OUTPUT

```
[muskan@localhost lib]$ nano libmgt.sh  
[muskan@localhost lib]$ ls  
libmgt.sh
```

```
[muskan@localhost lib]$ ls  
libmgt.sh  
[muskan@localhost lib]$ chmod 700 libmgt.sh  
[muskan@localhost lib]$ ls  
libmgt.sh
```

```
[muskan@localhost lib]$ ./libmgt.sh  
please enter the name of the library  
MUS  
Your library MUS has been created  
[muskan@localhost lib]$ cd MUS  
[muskan@localhost MUS]$ ls  
books  students
```

```
[muskan@localhost MUS]$ cd books  
[muskan@localhost books]$ ls  
booklist.txt  
[muskan@localhost books]$ vim booklist.txt  
[muskan@localhost books]$ ls  
booklist.txt  
[muskan@localhost books]$ cat booklist.txt  
LORD OF THE RINGS  
1984  
WAR AND PEACE  
HARRY POTTER SERIES  
PRIDE AND PREJUDICE
```

```
[muskan@localhost books]$ cd ..  
[muskan@localhost MUS]$ ls  
books  students  
[muskan@localhost MUS]$ cd students  
[muskan@localhost students]$ ls  
studentList.txt  
[muskan@localhost students]$ vim studentList.txt  
[muskan@localhost students]$ cat studentList.txt  
Muskan  
Navish  
Parul
```

5. EXECUTION AND TESTING:

- Write the name of your library.
- Go to books directory and using vim command write the names of the books in the booklist file in books directory.
- Then same with , go to students directory and in studentList file write the names of the students.

6. CONCLUSION:

In this project , a library management system is created in linux which it stores the data of books and students. Library management system is a software application used to manage the operations of a library, such as managing books, patrons, checkouts and returns. It is typically a database-driven where users can perform various tasks like searching,issuing , returning and updating records.

7. BIBLIOGRAPHY:

- GeeksforGeeks
- StackOverflow
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